OpenShift Enterprise 2 REST API Guide

Reference documentation for OpenShift Enterprise Representational State Transfer Application Programming Interface (REST API)

Red Hat OpenShift Documentation Team

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Abstract

The OpenShift Enterprise REST API Guide is a reference to the REST API ofOpenShift Enterprise. This guide explains each API resource, and where applicable, describes the parameters associated with that resource, with the resulting output example shown in JSON syntax. This provides the basis for developers to develop applications to interact with OpenShift Enterprise.

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Chapter 1. Introduction to OpenShift Enterprise

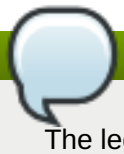
OpenShift Enterprise by Red Hat is a Platform as a Service (PaaS) that provides developers and IT organizations with an auto-scaling, cloud application platform for deploying new applications on secure, scalable resources with minimal configuration and management overhead. OpenShift Enterprise supports a wide selection of programming languages and frameworks, such as Java, Ruby, and PHP. Integrated developer tools, such as Eclipse integration, JBoss Developer Studio, and Jenkins, support the application life cycle.

Built on Red Hat Enterprise Linux, OpenShift Enterprise provides a secure and scalable multi-tenant operating system for today's enterprise-class applications while providing integrated application runtimes and libraries.

OpenShift Enterprise brings the OpenShift PaaS platform to customer data centers, enabling organizations to implement a private PaaS that meets security, privacy, compliance, and governance requirements.

1.1. Introduction to OpenShift API

OpenShift provides a Representational State Transfer (REST) Application Programming Interface (API). OpenShift applications access the API using the standard Hypertext Transfer Protocol (HTTP). The OpenShift REST API is structured as a resource, and provides links to all children and any related resources.



Note

The legacy API has been removed, and is no longer supported. All customers are advised to use the current OpenShift REST API.

1.2. Introduction to Representational State Transfer (REST)

Representational State Transfer (REST) is a design architecture for networked applications or systems. In the REST design architecture a client progresses through an application by selecting links, also known as state transitions. Each link selected by the client returns a *representation* of the selected resource. Also, with each resource representation the client application transfers state, and results in a usable web page being transferred and rendered.

In the REST design architecture, a resource is created for every service that an application provides, with each resource identified by a URL. A client can reference the resource using the URL. The returned representation of the resource is further linked to more information, allowing the client to drill down as far as necessary to get more detailed information. The client can access and perform operations on available resources with standard HTTP methods, such as **`GET`**, **`POST`**, **`PUT`**, and **`DELETE`**.

Chapter 2. General API Information

2.1. Authentication

The OpenShift API supports multiple authentication mechanisms, including *Basic Authentication* and authorization tokens.

Basic Authentication

With *Basic Authentication* a client is required to send the user name and password, separated by a colon, with all requests to correctly authenticate. This string is encoded with Base64 algorithm and transmitted in the HTTP authorization header in the following formats.

Ruby

```
require 'base64'
base64string = Base64.encode64("#{username}:#{password}").strip
headers = { "Authorization" => "Basic #{base64string}" }
```

Python

```
import base64
base64string = base64.encodestring('%s:%s' % (username, password))[:-
1]
request.add_header("Authorization", "Basic %s" % base64string)
```

cURL

The cURL library supports basic authentication using the **`--user`** option, as shown in the following example.

```
$ curl https://openshift.redhat.com/broker/rest/user --user
user@example.com
```

Authorization Tokens

You can also use authorization tokens to authenticate with the remote server instead of your user name and password. However, before you can use an authorization token you must first create one with the appropriate scope option. See Chapter 6, *Authorizations* for more information on creating and managing authorization tokens.

When you have an authorization token, you can substitute it in place of your login credentials, as shown in the following format:

```
$ curl https://openshift.redhat.com/broker/rest/user -H "Authorization:
Bearer token_id"
```

Example 2.1. cURL Command with Authorization Token

The following example shows a REST call to delete an application using an authorization token for authentication instead of a user name and password.

```
curl -X DELETE
https://openshift.redhat.com/broker/rest/application/5406971c5973ca2a7f000
0c6 -H "Authorization: Bearer
14fc97947174a911c3d1154aa846197cbc18ad550d7ad1cdd58aab105e65783a"
```

2.2. Version

Every OpenShift REST API call returns the current API version, and other versions that are supported. The following example shows how to use the **cURL** command to return the API version.

```
$ curl "https://openshift.redhat.com/broker/rest/api"
```

The following examples show the response for this command in both XML and JSON syntax.

XML Response

```
<response>
  <status>ok</status>
  <version>1.6</version>
  <supported-api-versions>
    <supported-api-version>1.0</supported-api-version>
    <supported-api-version>1.1</supported-api-version>
    <supported-api-version>1.2</supported-api-version>
    <supported-api-version>1.3</supported-api-version>
    <supported-api-version>1.4</supported-api-version>
    <supported-api-version>1.5</supported-api-version>
    <supported-api-version>1.6</supported-api-version>
  </supported-api-versions>
</response>
```

JSON Response

```
{
   "supported_api_versions": [
        1.0,
        1.1,
        1.2,
        1.3,
        1.4
        1.5
        1.6
    ],
    "version": "1.6"
}
```

If a specific API version is required, the client must include the HTTP header with the response request. The following examples show response requests in both XML and JSON syntax.

XML Clients

```
Accept: application/xml; version=1.5
```

JSON Clients

```
Accept: application/json; version=1.5
```

If the version requested by the client is not supported, the server responds with the HTTP status code 406, as shown in the following examples in XML and JSON syntax.

XML Response for Unsupported Version

```
<response>
  <messages>
    <message>
      <text>Requested API version 2.0 is not supported.  Supported versions
are 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6</text>
      <severity>error</severity>
    </message>
  </messages>
  <version>1.6</version>
  <supported-api-versions>
    <supported-api-version>1.0</supported-api-version>
    <supported-api-version>1.1</supported-api-version>
    <supported-api-version>1.2</supported-api-version>
    <supported-api-version>1.3</supported-api-version>
    <supported-api-version>1.4</supported-api-version>
    <supported-api-version>1.5</supported-api-version>
    <supported-api-version>1.6</supported-api-version>
  </supported-api-versions>
  <status>not_acceptable</status>
</response>
```

JSON Response for Unsupported Version

```
{
    "data": null,
    "messages": [
        {
            "exit_code": null,
            "field": null,
            "severity": "error",
            "text": "Requested API version 2.0 is not supported. Supported
versions are 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6"
        }
    ],
    "status": "not_acceptable",
    "supported_api_versions": [
        1.0,
        1.1,
        1.2,
        1.3,
        1.4,
        1.5,
        1.6
```

```
    ],
    "type": null,
    "version": "1.6"
}
```

2.3. Resource Links

The OpenShift REST API implements the Hypermedia as the Engine of Application State, or *HATEOAS*, design principle of the REST application architecture. This principle implies that the interaction between a client and a network application happens entirely through links provided dynamically by the application server. No prior knowledge, beyond a generic understanding of REST and HTTP protocol, is required from the REST client on how to interact with any particular application or server. Entry to the REST application by a REST client is through a simple fixed URL. All future actions the client takes are discovered within resource representations returned from the server. The client selects the links within these resources to navigate to the required resource.

The following table describes the elements contained in each resource link.

Table 2.1. Resource Elements

Element Name	Description
`href`	URL for resource link
`method`	HTTP method to use with resource link: **`GET`**, **`PUT`**, **`POST`**, or **`DELETE`**
`required parameters`	An array of input parameters required from the client
`optional parameters`	An array of optional input parameters

The following table describes attributes associated with each required input parameter.

Table 2.2. Required Parameter Attributes

Name	Description
`name`	Name of parameter
`type`	Type of parameter, for example String, Integer, Array, or Boolean
`description`	Brief description of the parameter
`valid options`	An array of valid options, may be empty
`invalid options`	An array of invalid options, may be empty

The following table describes attributes associated with each optional parameter.

Table 2.3. Optional Parameter Attributes

Name	Description
`name`	Name of parameter
`type`	Type of parameter, for example String, Integer, Array, or Boolean
`description`	Brief description of the parameter
`valid options`	An array of valid options, may be empty
`Default`	Default for the optional parameter if not provided by the client

The following example shows the API representation in both XML and JSON syntax.

XML Representation

```
<link>
  <optional-params/>
  <required-params>
    <param>
      <type>string</type>
      <valid-options/>
      <name>id</name>
      <description>Name of the domain</description>
    </param>
  </required-params>
  <href>https://openshift.redhat.com/broker/rest/domains</href>
  <rel>Create new domain</rel>
  <method>POST</method>
</link>
```

JSON Representation

```
{
  "required_params": [
    {
      "type": "string",
      "valid_options": [],
      "description": "Name of the domain",
      "name": "id"
    }
  ],
  "method": "POST",
  "optional_params": [],
  "href": "https://openshift.redhat.com/broker/rest/domains",
  "rel": "Create new domain"
}
```

Resource links from API responses can be hidden with the **nolinks** parameter. The **nolinks** parameter can be included with all supported APIs and can be set to *true* or *false*. If the **nolinks** parameter is not included, it automatically defaults to *false*. If the **nolinks** parameter is included and set to *true*, the resource links are excluded from the API response resulting in a concise output and improved general processing speed.

The following examples show the REST API responses to **GET** and **PUT** methods with and without the **nolinks** parameter.

```
$ curl -X GET https://openshift.redhat.com/broker/rest/user --user
user@example.com
{
    "api_version": 1.6,
    "data": {
        "capabilities": {
            "subaccounts": true,
            "gear_sizes": [
                "small",
                "medium"
            ],
            "plan_upgrade_enabled": true,
```

```
            "private_ssl_certificates": true,
            "inherit_on_subaccounts": [
                "gear_sizes"
            ]
        },
        "consumed_gears": 2,
        "created_at": "2013-08-14T19:12:59Z",
        "id": "520bd6bbdbd93c3dee00000d",
        "links": {
            "ADD_KEY": {
                "href":
"https://openshift.redhat.com/broker/rest/user/keys",
                "method": "POST",
                "optional_params": [],
                "rel": "Add new SSH key",
                "required_params": [
                    {
                        "description": "Name of the key",
                        "invalid_options": [],
                        "name": "name",
                        "type": "string",
                        "valid_options": []
                    },
                    {
                        "description": "Type of Key",
                        "invalid_options": [],
                        "name": "type",
                        "type": "string",
                        "valid_options": [
                            "ssh-rsa",
                            "ssh-dss",
                            "ssh-rsa-cert-v01@openssh.com",
                            "ssh-dss-cert-v01@openssh.com",
                            "ssh-rsa-cert-v00@openssh.com",
                            "ssh-dss-cert-v00@openssh.com"
                        ]
                    },
                    {
                        "description": "The key portion of an rsa key
(excluding ssh-rsa and comment)",
                        "invalid_options": [],
                        "name": "content",
                        "type": "string",
                        "valid_options": []
                    }
                ]
            },
            "LIST_KEYS": {
                "href":
"https://openshift.redhat.com/broker/rest/user/keys",
                "method": "GET",
                "optional_params": [],
                "rel": "List SSH keys",
                "required_params": []
            }
        },
```

```
        "login": "user@example.com",
        "max_gears": 10,
        "plan_id": "free",
        "plan_state": "ACTIVE",
        "usage_account_id": null
    },
    "messages": [],
    "status": "ok",
    "type": "user",
    "version": "1.6"
}
```

Example 2.2. API Response to `GET` Method with `nolinks=true`

```
$ curl -X GET https://openshift.redhat.com/broker/rest/user?nolinks=true -
-user user@example.com
{
    "data": {
        "capabilities": {
            "gear_sizes": [
                "small",
                "medium"
            ],
            "plan_upgrade_enabled": true,
            "private_ssl_certificates": true,
            "subaccounts": false,
            "max_storage_per_gear": 5
        },
        "consumed_gears": 5,
        "created_at": "2013-02-07T22:48:58Z",
        "id": "51142f5adbd93ce16a0005b3",
        "login": "user@example.com",
        "max_gears": 16,
        "plan_id": "silver",
        "plan_state": "ACTIVE",
        "usage_account_id": "2526383"
    },
    "messages": [],
    "status": "ok",
    "type": "user",
}
```

Example 2.3. API Response for `PUT` Method with `nolinks=true`

```
$ curl -X PUT https://openshift.redhat.com/broker/rest/user --user
user@example.com --data "plan_id=free" --data "nolinks=true"
{
    "data": {
        "capabilities": {
            "plan_upgrade_enabled": true,
            "subaccounts": false,
            "gear_sizes": [
                "small"
```

```
            ]
        },
        "consumed_gears": 0,
        "created_at": "2013-05-29T23:18:16Z",
        "id": "51a68cb836905d42c3000016",
        "login": "user",
        "max_gears": 3,
        "plan_id": "free",
        "plan_state": "ACTIVE",
        "usage_account_id": "2223379"
    },
    "errors": {},
    "messages": [],
    "status": "ok",
    "type": "account",
}
```


2.4. Response Information

The following table describes information contained in each API response.

Table 2.4. API Response Parameters

Name	Description
status	HTTP status text. Examples include ok or not_found
data	The data requested from the API. This is null in cases where there is no data to return
type	Type of data. For example, application or cartridge. This is null in cases where there is no data to return
messages	An array of messages returned to the client. See Section 2.5, “Messages” for more information on API messages
API version	API version requested by the client and returned by the API. Defaults to latest if the version is not specified. See Section 2.2, “Version” for more information
supported API versions	An array of supported API versions

2.5. Messages

The following table describes the parameters contained in each message from the API response. The API can return zero or more messages.

Table 2.5. API Message Parameters

Name	Description
severity	Message severity. Examples include debug, info, warning, error, and result
text	Text of the message
field	Indicates the message is relevant to a particular field in the resource. Used for validation errors and can be null
exit code	Exit code returned by the API. 0 if there are no issues

Note

Messages that return **severity**=result contain information that is passed to the user. Examples include database user names and passwords.

2.6. Response Type

Although OpenShift supports both XML and JSON response formats, the default server response is the JSON syntax. Include the following HTTP header to receive the response in XML:

```
Accept: application/xml
```

Using Ruby

```
headers = {"Accept" => "application/xml"}
```

Using Python

```
request.add_header("Accept", "application/xml")
```

Using cURL

```
curl "https://openshift.redhat.com/broker/rest/api" -H "Accept:
application/xml"
```

2.7. Status Codes

The OpenShift REST API attempts to return standard *HTTP status codes*. The more common status codes are shown in the following table along with a brief description of each.

Table 2.6. HTTP Status Codes

Code	Text	Description
200	OK	Standard response for successful HTTP requests.
201	Created	The resource was successfully created.
204	No content	The requested delete operation was successful.
301	Moved Permanently	The resource has moved, and all future requests should be made to the new URI.
400	Bad Request	Invalid request due to bad syntax.
401	Unauthorized	Authentication has failed, or was not provided.
403	Forbidden	The request is understood, but server is refusing to respond.
404	Not Found	The requested resource cannot be found.
406	Not Acceptable	The content from the requested resource is not acceptable according to the Accept headers. Possibly due to version requested, or it no longer being supported.
409	Conflict	The request could not be processed because of conflict in the request.
410	Gone	The resource is no longer available, and will not be available again.

Code	Text	Description
422	Unprocessable Entity	The request was well formed, but was not followed due to semantic errors.
500	Internal Server Error	A generic error message when something is broken.
502	Bad Gateway	Server was acting as a gateway or proxy, and received an invalid response.
503	Service Unavailable	The server is currently unavailable; possibly down for maintenance.
504	Gateway Timeout	The server was acting as a gateway or proxy and did not receive a timely response.

Chapter 3. API Entry Point

Description

Interaction with the OpenShift API begins with a request to the URL for the API entry point. The entry point provides navigation links to resources for a client to manage an OpenShift cloud environment.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/api**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/api
```

JSON Response

The OpenShift API resources are returned. Unnecessary information has been left out for brevity.

```
{
    "api_version": 1.6,
    "data": {
        "API": {
            "href": "https://openshift.redhat.com/broker/rest/api",
            "method": "GET",
            "optional_params": [],
            "rel": "API entry point",
            "required_params": []
        },
        "GET_ENVIRONMENT": {
            "href": "https://openshift.redhat.com/broker/rest/environment",
            "method": "GET",
            "optional_params": [],
            "rel": "Get environment information",
            "required_params": []
        },
        "GET_USER": {
            "href": "https://openshift.redhat.com/broker/rest/user",
            "method": "GET",
            "optional_params": [],
            "rel": "Get user information",
            "required_params": []
        },
        "ADD_DOMAIN": {
            "href": "https://openshift.redhat.com/broker/rest/domains",
            "method": "POST",
            "optional_params": [],
            "rel": "Create new domain",
            "required_params": [
```

```
                {
                    "description": "Name of the domain",
                    "invalid_options": [
                        "amentra",
                        "aop",
........
                        "wise",
                        "xnio"
                    ],
                    "name": "name",
                    "type": "string",
                    "valid_options": []
                }
            ]
        },
        "LIST_DOMAINS": {
            "href": "https://openshift.redhat.com/broker/rest/domains",
            "method": "GET",
            "optional_params": [],
            "rel": "List all domains you have access to",
            "required_params": []
        },
        "LIST_DOMAINS_BY_OWNER": {
            "href": "https://openshift.redhat.com/broker/rest/domains",
            "method": "GET",
            "optional_params": [],
            "rel": "List domains",
            "required_params": [
                {
                    "description": "Return only the domains owned by the
specified user id or identity.  Use @self to refer to the current user.",
                    "invalid_options": [],
                    "name": "owner",
                    "type": "string",
                    "valid_options": [
                        "@self",
                        "*"
                    ]
                }
            ]
        },
        "SHOW_DOMAIN": {
            "href": "https://openshift.redhat.com/broker/rest/domain/:name",
            "method": "GET",
            "optional_params": [],
            "rel": "Retrieve a domain by its name",
            "required_params": [
                {
                    "description": "Unique name of the domain",
                    "invalid_options": [],
                    "name": ":name",
                    "type": "string",
                    "valid_options": []
                }
            ]
        },
```

```
        "SHOW_APPLICATION_BY_DOMAIN": {
            "href":
"https://openshift.redhat.com/broker/rest/domain/:domain_name/application/:n
ame",
            "method": "GET",
            "optional_params": [],
            "rel": "Retrieve an application by its name and domain",
            "required_params": [
                {
                    "description": "Unique name of the domain",
                    "invalid_options": [],
                    "name": ":domain_name",
                    "type": "string",
                    "valid_options": []
                },
                {
                    "description": "Name of the application",
                    "invalid_options": [],
                    "name": ":name",
                    "type": "string",
                    "valid_options": []
                }
            ]
        },
        "LIST_CARTRIDGES": {
            "href": "https://openshift.redhat.com/broker/rest/cartridge",
            "method": "GET",
            "optional_params": [],
            "rel": "List cartridges",
            "required_params": []
        },
        "LIST_APPLICATIONS": {
            "href": "https://openshift.redhat.com/broker/rest/applications",
            "method": "GET",
            "optional_params": [],
            "rel": "List application",
            "required_params": []
        },
        "SHOW_APPLICATION": {
            "href":
"https://openshift.redhat.com/broker/rest/application/:id",
            "method": "GET",
            "optional_params": [],
            "rel": "List application",
            "required_params": [
                {
                    "description": "Unique identifier of the application",
                    "invalid_options": [],
                    "name": ":id",
                    "type": "string",
                    "valid_options": []
                }
            ]
        },
        "LIST_AUTHORIZATIONS": {
            "href":
```

```
"https://openshift.redhat.com/broker/rest/user/authorizations",
            "method": "GET",
            "optional_params": [],
            "rel": "List authorizations",
            "required_params": []
        },
        "SHOW_AUTHORIZATION": {
            "href":
"https://openshift.redhat.com/broker/rest/user/authorization/:id",
            "method": "GET",
            "optional_params": [],
            "rel": "Retrieve authorization :id",
            "required_params": [
                {
                    "description": "Unique identifier of the
authorization",
                    "invalid_options": [],
                    "name": ":id",
                    "type": "string",
                    "valid_options": []
                }
            ]
        },
        "ADD_AUTHORIZATION": {
            "href":
"https://openshift.redhat.com/broker/rest/user/authorizations",
            "method": "POST",
            "optional_params": [
                {
                    "default_value": "userinfo",
                    "description": "Select one or more scopes that this
authorization will grant access to:\n\n*  session\n   Grants a client the
authority to perform all API actions against your account. Valid for 1
day.\n*  read\n   Allows the client to access resources you own without
making changes. Does not allow access to view authorization tokens. Valid
for about 1 month.\n*  userinfo\n   Allows a client to view your login name,
unique id, and your user capabilities. Valid for about 1 month.\n*
domain/:id/view\n   Grant read-only access to a single domain. Valid for
about 1 month.\n*  domain/:id/edit\n   Grant edit access to a single domain
and all its applications. Valid for about 1 month.\n*  domain/:id/admin\n
Grant full administrative access to a single domain and all its applications.
Valid for about 1 month.\n*  application/:id/view\n   Grant read-only access
to a single application. Valid for about 1 month.\n*  application/:id/edit\n
Grant edit access to a single application. Valid for about 1 month.\n*
application/:id/admin\n   Grant full administrative access to a single
application. Valid for about 1 month.",
                    "name": "scope",
                    "type": "string",
                    "valid_options": [
                        "session",
                        "read",
                        "userinfo",
                        "domain/:id/view",
                        "domain/:id/edit",
                        "domain/:id/admin",
                        "application/:id/view",
```

```
                        "application/:id/edit",
                        "application/:id/admin"
                    ]
                },
                {
                    "default_value": null,
                    "description": "A description to remind you what this
authorization is for.",
                    "name": "note",
                    "type": "string",
                    "valid_options": []
                },
                {
                    "default_value": -1,
                    "description": "The number of seconds before this
authorization expires. Out of range values will be set to the maximum
allowed time.",
                    "name": "expires_in",
                    "type": "integer",
                    "valid_options": []
                },
                {
                    "default_value": false,
                    "description": "Attempt to locate and reuse an
authorization that matches the scope and note and has not yet expired.",
                    "name": "reuse",
                    "type": "boolean",
                    "valid_options": [
                        true,
                        false
                    ]
                }
            ],
            "rel": "Add new authorization",
            "required_params": []
        },
        "LIST_QUICKSTARTS": {
            "href":
"https://www.openshift.com/api/v1/quickstarts/promoted.json",
            "method": "GET",
            "optional_params": [],
            "rel": "List quickstarts",
            "required_params": []
        },
        "SHOW_QUICKSTART": {
            "href": "https://www.openshift.com/api/v1/quickstarts/:id",
            "method": "GET",
            "optional_params": [],
            "rel": "Retrieve quickstart with :id",
            "required_params": [
                {
                    "description": "Unique identifier of the quickstart",
                    "invalid_options": [],
                    "name": ":id",
                    "type": "string",
                    "valid_options": []
```

```
                }
            ]
        },
        "SEARCH_QUICKSTARTS": {
            "href": "https://www.openshift.com/api/v1/quickstarts.json",
            "method": "GET",
            "optional_params": [],
            "rel": "Search quickstarts",
            "required_params": [
                {
                    "description": "The search term to use for the
quickstart",
                    "invalid_options": [],
                    "name": "search",
                    "type": "string",
                    "valid_options": []
                }
            ]
        }
    },
    "messages": [],
    "status": "ok",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
    ],
    "type": "links",
    "version": "1.6"
}
```

Chapter 4. User Information

This chapter provides information on API resources that allow a client to manage OpenShift user account information.

The following table describes each parameter associated with a user account.

Name	Description
`capabilities`	Map of user capabilities. See the following table for user capabilities.
`consumed_gears`	Total number of gears consumed by all applications owned by user.
`login`	Account user name.
`max_gears`	Maximum number of gears available to the specified user.
`max_teams`	Maximum number of teams a user can create.
`plan_id`	Subscription plan of the specified user.
`plan_state`	State of the account for the specified user.

The following table further describes each available capability for the user.

Name	Description
`plan_upgrade_enabled`	Indicates whether the user is on an upgraded plan.
`subaccounts`	Indicates whether the user has the ability to create subaccounts.
`gear_sizes`	Available gear sizes depending on the type of plan.
`max_storage_per_gear`	Maximum storage in gigabytes available per gear to the specified user.
`private_ssl_certificates`	Subscription plan of the specified user.

4.1. View User Information

Description

Provides resource links to view user information, and manage user SSH keys.

Method and URL Structure

Method	Resource URL
`GET`	`/broker/rest/user`

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/user --user
user@example.com:password
```

JSON Response

The API returns the user information resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 4, *User Information* for more information on all user information parameters.

```
{
    "api_version": 1.6,
    "data": {
        "capabilities": {
            "subaccounts": true,
            "gear_sizes": [
                "small",
                "medium"
            ],
            "plan_upgrade_enabled": true,
            "private_ssl_certificates": true,
            "inherit_on_subaccounts": [
                "gear_sizes"
            ]
        },
        "consumed_gears": 2,
        "created_at": "2013-08-14T19:12:59Z",
        "id": "520bd6bbdbd93c3dee00000d",
        "links": {
            "ADD_KEY": {
                "href":
"https://openshift.redhat.com/broker/rest/user/keys",
                "method": "POST",
                "optional_params": [],
                "rel": "Add new SSH key",
                "required_params": [
                    {
                        "description": "Name of the key",
                        "invalid_options": [],
                        "name": "name",
                        "type": "string",
                        "valid_options": []
                    },
                    {
                        "description": "Type of Key",
                        "invalid_options": [],
                        "name": "type",
                        "type": "string",
                        "valid_options": [
                            "ssh-rsa",
                            "ssh-dss",
                            "ssh-rsa-cert-v01@openssh.com",
                            "ssh-dss-cert-v01@openssh.com",
                            "ssh-rsa-cert-v00@openssh.com",
                            "ssh-dss-cert-v00@openssh.com"
                        ]
                    },
                    {
                        "description": "The key portion of an rsa key
(excluding ssh-rsa and comment)",
                        "invalid_options": [],
                        "name": "content",
                        "type": "string",
                        "valid_options": []
                    }
                ]
```

```
            },
            "LIST_KEYS": {
                "href":
"https://openshift.redhat.com/broker/rest/user/keys",
                "method": "GET",
                "optional_params": [],
                "rel": "List SSH keys",
                "required_params": []
            }
        },
        "login": "user@example.com",
        "max_gears": 10,
        "plan_id": "free",
        "plan_state": "ACTIVE",
        "usage_account_id": null
    },
    "messages": [],
    "status": "ok",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
    ],
    "type": "user",
    "version": "1.6"
}
```

4.2. Parent and Child Accounts

Parent accounts that have the subaccounts capability enabled can contain child user accounts. See Chapter 4, *User Information* for more information on all user account parameters and capabilities.

4.2.1. Delete Child Account

Description

Delete the specified child user account, if one exists.

Note

Parent accounts cannot be deleted. Therefore, the API returns an error message if you attempt to delete a parent account.

Method and URL Structure

Method	Resource URL
DELETE	**/broker/rest/user**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE https://openshift.redhat.com/broker/rest/user -d --user
child_user:password
```

JSON Response

No content is returned from a successful **DELETE** operation.

Chapter 5. SSH Keys

This chapter provides information on API resources that allow a client to view and manage SSH keys.

The following table describes each parameter associated with SSH keys.

Name	Description
name	Name of the SSH key as specific by the user.
content	Content of the public SSH key.
type	Type of SSH key; for example, RSA or DSA. .

5.1. Add SSH Key

Description

Add an SSH key to the specified user account.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/user/keys**

Request Parameters

Name	Description	Required	Default
name	Name of key	Yes	
type	Type of SSH key	Yes	
content	The key portion (excluding ssh-rsa and comment)	Yes	

See Section A.1, “SSH Keys” for more information about the valid options applicable to these request parameters.

Request

```
{
  "name": "mysshkey",
  "type": "ssh-rsa",
  "content":
"AAAAB3NzaC1yc2EAAAADAQABAAABAQDBJHobjmzxy8cv9A1xw9X5TlnQd0bW/19FwOC0c6jPNu9
ZbtWQcAE0xfODl7ZqVPPU2qAFOh4rbL3gL2UzTyA+NwERyDrH7tMXAoXPT2L6sqExl0xxuEvb/lX
UfLquMq+BMOFxxqCEg8X7GavHN72FMUHwweNybE7C82So+OFSWqFoctiWMNdNsKW4lvBd/jkIudG
dRdK+/PzV75TW1LcpfsBrFOJZbd5WzDJEPNdMqOH68YDExD82VtzeJm0HEavhMY9HtxIDEmjIhtf
edzCGZLe+6OxReuatw6M+n1sFxT9liprZ6NIANvbnYZKGT50hYfnIi/hZOTCvqYNS97O3"
}
```

cURL Command Example

```
$ curl -X POST https://openshift.redhat.com/broker/rest/user/keys --user
user@example.com:password --data-urlencode name=mysshkey --data-urlencode
type=ssh-rsa --data-urlencode
content=AAAAB3NzaC1yc2EhyuiBIwAAAQEA14PDPWsaZMDspZNK7ABsppzwy++Ih2tRwjBkxzC2
```

```
KEcQi7v8IcyODb7qLJ72tgx3G90zRm7vQ6wuyy7rkYLIvTYiDnchy68ikjyt7wuBuSCgFcHLUdon
7xn7VrskjhMN4pae6bjaY1+o4Knpfm3N72+9q/6+T52QIWCE1+Ku6UYYuOGy8qWynddw24bp4jGE
KAXqTXcALuBoukC3uB+hrxvZYH1fbek6aEAQPYzO6sGqJqV1UoF0ascelhtyui8kadrKPr/5uJsP
S+kGZguU16ykQb2k9K03JMSfvPP4rLe50Q9G4dSZFbUOQXdC3n13CqvsEVzizUGl0HyT8MhRqw==
```

JSON Response

The API returns the key resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 5, *SSH Keys* for more information on all SSH key parameters.


```
{
  "api_version": 1.6,
  "data": {
    "content":
"AAAAB3NzaC1yc2EhyuiBIwAAAQEA14PDPWsaZMDspZNK7ABsppzwy++Ih2tRwjBkxzC2KEcQi7v
8IcyODb7qLJ72tgx3G90zRm7vQ6wuyy7rkYLIvTYiDnchy68ikjyt7wuBuSCgFcHLUdon7xn7Vrs
kjhMN4pae6bjaY1+o4Knpfm3N72+9q/6+T52QIWCE1+Ku6UYYuOGy8qWynddw24bp4jGEKAXqTXc
ALuBoukC3uB+hrxvZYH1fbek6aEAQPYzO6sGqJqV1UoF0ascelhtyui8kadrKPr/5uJsPS+kGZgu
U16ykQb2k9K03JMSfvPP4rLe50Q9G4dSZFbUOQXdC3n13CqvsEVzizUGl0HyT8MhRqw",
    "name": "mysshkey",
    "type": "ssh-rsa"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Created SSH key mysshkey"
    }
  ],
  "status": "created",
  "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
  ],
  "type": "key",
  "version": "1.6"
}
```


5.2. List User SSH Keys

Description

Get a list of SSH keys for an OpenShift user.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/user/keys**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/user/keys --user
user@example.com:password
```

JSON Response

The API returns the key resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 5, *SSH Keys* for more information on all SSH key parameters.


```
{
    "api_version": 1.6,
    "data": [
        {
            "content":
"AAAAB3NzaC1yc2gyiketIwAAAQEA3DyqVJYGQRvbyc9TZAumxU3C5v2cBF5YCJMRobDpXWAdG6L
s4pWpk/10CwiJDQcWa8Oeq3HajnAJfalz8rGXXHp9UA9YNp4vrzYDgLkCzS5jHJzMIu7aIJS6WrF
B1i1nZwnIyfthyBmSX8C8bWK3+FeZYqwmXy++t4uoZIYJ5RTffW8/1w3sgt47juikR6qzzSDh1Bk
s+GW5i1FxQD7PeuIZFJlAJyJLtiAPfbazX3YrroiPRL9YnB/QTpLg2jGeTtlC2UPhofbwMqAqaVp
jCShHTZRW+aPGGB95BuwZMzOR2huioplkVRE7uhLsn3kFrsUBtu0SzPSSZ5fUQjeMUQ==",
            "name": "default",
            "type": "ssh-rsa"
        }
    ],
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Found 1 ssh keys"
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
   ],
   "type": "keys",
   "version": "1.6"
}
```


5.3. Get SSH Key Information

Description

View the contents of an SSH key.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/user/keys/*:name***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/user/keys/mysshkey --
user user@example.com:password
```

JSON Response

The API returns the key resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 5, *SSH Keys* for more information on all SSH key parameters.


```
{
  "api_version": 1.6,
  "data": {
    "content":
"AAAAB3NzaC1yc2EAAAADAQABAAABAQDBJHobjmzxy8cv9A1xw9X5TlnQd0bW/19FwOC0c6jPNu9
ZbtWQcAE0xfODl7ZqVPPU2qAFOh4rbL3gL2UzTyA+NwERyDrH7tMXAoXPT2L6sqExl0xxuEvb/lX
UfLquMq+BMOFxxqCEg8X7GavHN72FMUHwweNybE7C82So+OFSWqFoctiWMNdNsKW4lvBd/jkIudG
dRdK+/PzV75TW1LcpfsBrFOJZbd5WzDJEPNdMqOH68YDExD82VtzeJm0HEavhMY9HtxIDEmjIhtf
edzCGZLe+6OxReuatw6M+n1sFxT9liprZ6NIANvbnYZKGT50hYfnIi/hZOTCvqYNS97O3",
    "name": "mysshkey",
    "type": "ssh-rsa"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Found SSH key 'mysshkey'"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
  ],
  "type": "key",
  "version": "1.6"
}
```

5.4. Update SSH Key

Description

Update the contents of an existing SSH key.

Method and URL Structure

Method	Resource URL
PUT	**/broker/rest/user/keys/*:name***

Request Parameters

Name	Description	Required	Default
type	Type of key	Yes	
content	The key portion of an rsa key (excluding ssh-rsa and comment)	Yes	

See Section A.1, “SSH Keys” for more information about the valid options applicable to these request parameters.

Request

```
{
  "type": "ssh-rsa",
  "content":
"AAAAB3NzaC1yc2EAAAADAQABAAABAQDBJHobjmzxy8cv9A1xw9X5TlnQd0bW/19FwOC0c6jPNu9
ZbtWQcAE0xfODl7ZqVPPU2qAFOh4rbL3gL2UzTyA+NwERyDrH7tMXAoXPT2L6sqExl0xxuEvb/lX
UfLquMq+BMOFxxqCEg8X7GavHN72FMUHwweNybE7C82So+OFSWqFoctiWMNdNsKW4lvBd/jkIudG
dRdK+/PzV75TW1LcpfsBrFOJZbd5WzDJEPNdMqOH68YDExD82VtzeJm0HEavhMY9HtxIDEmjIhtf
edzCGZLe+6OxReuatw6M+n1sFxT9liprZ6NIANvbnYZKGT50hYfnIi/hZOTCvqYNS97O3"
}
```

cURL Command Example

```
$ curl -X PUT https://openshift.redhat.com/broker/rest/user/keys/mysshkey --
user user@example.com:password --data-urlencode type=ssh-rsa --data-urlencode
content=AAAAB3NzaC1yc2EAAAADAQABAAABAQDBJHobjmzxy8cv9A1xw9X5TlnQd0bW/19FwOC0
c6jPNu9ZbtWQcAE0xfODl7ZqVPPU2qAFOh4rbL3gL2UzTyA+NwERyDrH7tMXAoXPT2L6sqExl0xx
uEvb/lXUfLquMq+BMOFxxqCEg8X7GavHN72FMUHwweNybE7C82So+OFSWqFoctiWMNdNsKW4lvBd
/jkIudGdRdK+/PzV75TW1LcpfsBrFOJZbd5WzDJEPNdMqOH68YDExD82VtzeJm0HEavhMY9HtxID
EmjIhtfedzCGZLe+6OxReuatw6M+n1sFxT9liprZ6NIANvbnYZKGT50hYfnIi/hZOTCvqYNS97O3
```

Note

It is recommended to URL encode the key contents because it might contain non alphanumeric characters.

JSON Response

The API returns the key resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 5, *SSH Keys* for more information on all SSH key parameters.


```
{
  "api_version": 1.6,
  "data": {
    "content":
"AAAAB3NzaC1yc2EAAAADAQABAAABAQDBJHobjmzxy8cv9A1xw9X5TlnQd0bW/19FwOC0c6jPNu9
ZbtWQcAE0xfODl7ZqVPPU2qAFOh4rbL3gL2UzTyA+NwERyDrH7tMXAoXPT2L6sqExl0xxuEvb/lX
UfLquMq+BMOFxxqCEg8X7GavHN72FMUHwweNybE7C82So+OFSWqFoctiWMNdNsKW4lvBd/jkIudG
dRdK+/PzV75TW1LcpfsBrFOJZbd5WzDJEPNdMqOH68YDExD82VtzeJm0HEavhMY9HtxIDEmjIhtf
edzCGZLe+6OxReuatw6M+n1sFxT9liprZ6NIANvbnYZKGT50hYfnIi/hZOTCvqYNS97O3",
    "name": "mysshkey",
    "type": "ssh-rsa"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Updates SSH key mysshkey for user@example.com"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
  ],
  "type": "key",
  "version": "1.6"
}
```


5.5. Delete SSH Key

Description

Delete an SSH key from a user account.

Method and URL Structure

Method	Resource URL
DELETE	**/broker/rest/user/keys/*:name***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE https://openshift.redhat.com/broker/rest/user/keys/mysshkey
--user user@example.com:password
```

JSON Response

```
{
  "api_version": 1.6,
  "data": null,
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Deleted SSH key mysshkey"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
 ],
 "type": null,
 "version": "1.6"
}
```

The API returns an error message if the SSH key to be deleted is not found.

```
{
    "api_version": 1.6,
    "data": null,
    "messages": [
        {
            "exit_code": 118,
            "field": null,
            "severity": "error",
            "text": "User ssh key 'fakekey' not found."
        }
    ],
    "status": "not_found",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
```

```
    ],
    "type": null,
    "version": "1.6"
}
```

Chapter 6. Authorizations

This chapter provides information on API resources to add, view, and manage authorization tokens. An authorization token is a secret value that is used to automatically log in to an OpenShift Enterprise account without entering login information each time. A token is also used to grant another user full or partial access to an account, determined by the *scope* of the token.

Authorization tokens are easily managed and offer better security because there is no need to repeatedly supply login credentials. For example, if a password is ever compromised, the password must be reset. If a secret authorization token is compromised, that token can be revoked and another one created.

The following table describes each parameter associated with an OpenShift authorization token.

Name	Description
id	Unique OpenShift login that created this authorization token.
scope	Scope of the authorization token to determine type of access. Scopes that are supported by a server are described in the **ADD_AUTHORIZATION** resource link and may be different for each server.
note	A reminder description of what the authorization is for.
expires_in	Total time in seconds before this authorization expires. Out of range values will be set to the maximum allowed time.
expires_in_seconds	Remaining time in seconds before this authorization expires.
reuse	Attempt to locate and reuse an authorization that matches the scope and note and has not yet expired.
token	Authorization string that contains user credentials.

The following table describes the available **scope** options that determine the type of access a user is granted with an authorization.

Name	Description
session	Grants a client the authority to perform all API actions against an account. Valid for one day.
read	Access to the API is read-only, while authorization endpoints cannot be read.
userinfo	Only read access to the **/user** API resource is provided.

6.1. Add an Authorization

Description

Add an authorization to the specified user account.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/user/authorizations**

Request Parameters

Name	Description	Required	Default
scope	Scope of the authorization	No	userinfo
note	Reminder description of authorization	No	
expires_in	Number of seconds before authorization expires	No	-1 [a]

Name	Description	Required	Default
reuse	Attempt to locate and reuse an authorization matching scope and note and has not expired	No	**false**

[a] For invalid values, the default is determined by the server.

See Section A.2, “Authorizations” for more information about the valid options applicable to these request parameters.

Request

```
{
  "scope": "userinfo",
  "note": "This is my UPDATED note to myself",
  "expires_in": -1,
  "reuse": false
}
```

cURL Command Example

```
$ curl -X POST https://openshift.redhat.com/broker/rest/user/authorizations
--user user@example.com:password --data-urlencode scope=userinfo --data-
urlencode note=This is my UPDATED note to myself --data-urlencode
expires_in=-1 --data-urlencode reuse=false
```

JSON Response

The related resource links returned by the API have been left out for brevity. See Chapter 6, *Authorizations* for more information on all authorization parameters.

```
{
  "api_version": 1.6,
  "data": {
    "created_at": "2013-08-21T02:02:10Z",
    "expires_in": 2592000,
    "expires_in_seconds": 2592000,
    "id": "52141fa2e499b2229e00009b",
    "identity": "user@example.com",
    "note": "This is my UPDATED note to myself",
    "scopes": "userinfo",
    "token":
"6c85ff7f619a964e260ee6def3fc5829128dbba3f8bc11a5d89178e0d6e7a163"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Create authorization"
    }
  ],
  "status": "created",
  "supported_api_versions": [
    1.0,
    1.1,
```

```
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "authorization",
  "version": "1.6"
}
```

6.2. List Authorizations

Description

List all authorizations for the specified user account and provide the client with additional resource links to manage existing authorizations.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/user/authorizations**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/user/authorizations -
-user user@example.com:password"
```

JSON Response

The API returns the authorizations resource with related resource links which have been left out for brevity. No resource links are returned if the user account does not contain any authorizations. See Chapter 6, *Authorizations* for more information on all authorization parameters.

```
{
    "api_version": 1.6,
    "data": [
        {
            "created_at": "2013-08-22T02:30:47Z",
            "expires_in": 86400,
            "expires_in_seconds": 6870,
            "id": "521577d703ef64a3120000de",
            "identity": "user@example.com",
            "note": "OpenShift Console (from 66.187.239.10 on Firefox)",
            "scopes": "session",
            "token":
"187bd89d1f5172af567eb12631c45gt7415dca5c2b7jy56970b3f3a911df4697"
        }
    ],
    "messages": [
        {
```

```
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "List authorizations"
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
 ],
 "type": "authorizations",
 "version": "1.6"
}
```

6.3. Get Authorization Information

Description

Get information about the specified authorization.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/user/authorizations/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/user/authorizations/52141fa2e499b22
29e00009b --user user@example.com:password
```

JSON Response

The API returns information about the specified authorization and related resource links which have been left out for brevity. See Chapter 6, *Authorizations* for more information on all authorization parameters.

```
{
  "api_version": 1.6,
  "data": {
    "created_at": "2013-08-21T02:02:10Z",
    "expires_in": 2592000,
    "expires_in_seconds": 2592000,
    "id": "52141fa2e499b2229e00009b",
```

```
    "identity": "user@example.com",
    "note": "This is my UPDATED note to myself",
    "scopes": "userinfo",
    "token":
"6c85ff7f619a964e260ee6def3fc5829128dbba3f8bc11a5d89178e0d6e7a163"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Display authorization"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "authorization",
  "version": "1.6"
}
```


6.4. Update an Authorization

Description

Update an existing authorization for the specified user account. However, currently this operation only supports updating the **`note`** parameter of an existing authorization.

Method and URL Structure

Method	URL Structure
`PUT`	**`/broker/rest/user/authorizations/`*`:id`***

Request Parameters

Name	Description	Required	Default
`note`	Reminder description of authorization.	Yes	

See Section A.2, “Authorizations” for more information about the valid options applicable to these request parameters.

cURL Command Example

```
$ curl -X PUT
https://openshift.redhat.com/broker/rest/user/authorizations/52141fa2e499b22
29e00009b --user user@example.com:password --data-urlencode note=This is a
note to myself
```

JSON Response

The API returns the authorizations resource with related resource links which have been left out for brevity. See Chapter 6, *Authorizations* for more information on all authorization parameters.


```
{
  "api_version": 1.6,
  "data": {
    "created_at": "2013-08-21T02:02:10Z",
    "expires_in": 2592000,
    "expires_in_seconds": 2592000,
    "id": "52141fa2e499b2229e00009b",
    "identity": "user@example.com",
    "note": "This is a note to myself",
    "scopes": "userinfo",
    "token":
"6c85ff7f619a964e260ee6def3fc5829128dbba3f8bc11a5d89178e0d6e7a163"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Change authorization"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "authorization",
  "version": "1.6"
}
```


6.5. Delete an Authorization

Description

Delete the specified authorization.

Method and URL Structure

Method	URL Structure
DELETE	**/broker/rest/user/authorizations/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/user/authorizations/52141fa2e499b22
29e00009b --user user@example.com:password
```

JSON Response

The API returns confirmation of a successful **DELETE** operation.

```
{
  "api_version": 1.6,
  "data": null,
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Authorization 52141fa2e499b2229e00009b is revoked."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
  ],
  "type": null,
  "version": "1.6"
}
```

Chapter 7. Domains

This chapter provides information on API resources to add, update, and manage OpenShift user domains. A domain must be created before OpenShift applications can be created. Domain names on OpenShift are non-strict, meaning there is no preceding period, and form part of the application name. Therefore, the syntax for the application name is *ApplicationName-DomainName.rhcloud.com*.

The following table describes each parameter associated with an OpenShift domain.

Name	Description
name	Name of the domain
suffix	Domain suffix
allowed_gear_sizes	Array of zero or more gear sizes allowed on this domain

7.1. Create a Domain

Description

Create a new domain for an OpenShift user account. Note that a domain is required to create applications on OpenShift Enterprise.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/domains**

Request Parameters

Name	Description	Required	Default
name	Name of domain	Yes	
allowed_gear_sizes	List of gear sizes that can be created on this domain	No	

See Section A.3, “Domains” for more information about the valid options applicable to these request parameters.

Request

```
{
  "name": "mydomain",
  "allowed_gear_sizes": "small"
}
```

cURL Command Example

```
$ curl -X POST https://openshift.redhat.com/broker/rest/domains/ --user
user@example.com:password --data-urlencode name=mydomain --data-urlencode
allowed_gear_sizes=small
```

JSON Response

The API returns the domain resource with related resource links which have been left out for brevity. See Chapter 7, *Domains* for more information on all domain parameters.

```
{
  "api_version": 1.6,
  "data": {
    "allowed_gear_sizes": [
      "small"
    ],
    "creation_time": "2013-11-07T00:28:13Z",
    "id": "527ade9d7f9c48d371000009",
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "owner",
            "role": "admin"
          }
        ],
        "id": "527ade897f9c48d371000001",
        "login": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "mydomain",
    "suffix": "rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Created domain with name mydomain"
    }
  ],
  "status": "created",
  ],
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "domain",
  "version": "1.6"
}
```


7.2. List Domains

Description

Get a list of all domains accessible to the user, regardless of ownership.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/domains**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/domains --user
user@example.com:password
```

JSON Response

The API returns a list of all domains that you have access to. The related resource links returned by the API have been left out for brevity.

```
{
    "api_version": 1.6,
    "data": [
        {
            "allowed_gear_sizes": [
                "small",
                "medium",
                "c9"
            ],
            "creation_time": "2013-08-20T07:21:50Z",
            "links": {
            },
            "members": [
                {
                    "explicit_role": null,
                    "from": [
                        {
                            "type": "owner",
                            "role": "admin"
                        }
                    ],
                    "id": "520bd6bbdbd93c3dee00000d",
                    "name": "user@example.com",
                    "owner": true,
                    "role": "admin",
                    "type": "user"
                }
            ],
            "name": "mydomain",
            "suffix": "rhcloud.com"
        }
    ],
    "messages": [],
    "status": "ok",
```

```
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
  ],
  "type": "domains",
  "version": "1.6"
}
```

7.3. List Domains by Owner

Description

Get a list of domains owned by a particular user, specified with the **owner** parameter. If no owner is specified, it automatically defaults to self.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/domains**

Request Parameters

Name	Description	Required	Default
owner	List domains owned by specified user, or @self for current user	Yes	

See Section A.3, “Domains” for more information about the valid options applicable to these request parameters.

Request

```
{
  "owner": "@self"
}
```

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/domains --user
user@example.com:password --data-urlencode owner=@self
```

JSON Response

The API returns a list of domains owned by the specified user. The related resource links returned by the API have been left out for brevity.

```
{
    "api_version": 1.6,
```

```
    "data": [
        {
            "allowed_gear_sizes": [
                "small",
                "medium",
                "c9"
            ],
            "creation_time": "2013-08-20T07:21:50Z",
            "links": {
            },
            "members": [
                {
                    "explicit_role": null,
                    "from": [
                        {
                            "type": "owner",
                            "role": "admin"
                        }
                    ],
                    "id": "520bd6bbdbd93c3dee00000d",
                    "name": "user@example.com",
                    "owner": true,
                    "role": "admin",
                    "type": "user"
                }
            ],
            "name": "mydomain",
            "suffix": "rhcloud.com"
        }
    ],
    "messages": [],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
  ],
  "type": "domains",
  "version": "1.6"
}
```


7.4. Get Domain Information

Description

Get information about an existing domain.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/domains/*:name***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/domains/mydomain --
user user@example.com:password
```

JSON Response

The API returns the domain resource with related resource links which have been left out for brevity. See Chapter 7, *Domains* for more information on all domain resource parameters.

```
$ curl -X GET https://openshift.redhat.com/broker/rest/domains/mydomain --
user user@example.com:password
{
  "api_version": 1.6,
  "data": {
    "allowed_gear_sizes": [
      "small"
    ],
    "creation_time": "2013-08-21T01:58:41Z",
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "owner",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "mydomain",
    "suffix": "rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Found domain mydomain"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
```

```
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "domain",
  "version": "1.6"
}
```

7.5. Update Domain

Description

Update an existing domain.

Method and URL Structure

Method	URL Structure
PUT	**/broker/rest/domains/*:name***

Request Parameters

Name	Description	Required	Default
name	Name of domain	Yes	
allowed_gear_sizes	Array of zero or more gear sizes allowed on this domain	No	

See Section A.3, “Domains” for more information about the valid options applicable to these request parameters.

Request

```
{
  "name": "mydomainX",
  "allowed_gear_sizes": "small"
}
```

cURL Command Example

```
$ curl -X PUT https://openshift.redhat.com/broker/rest/domains/mydomain --
user user@example.com --data-urlencode name=mydomainx --data-urlencode
allowed_gear_sizes=small
```

JSON Response

The API returns the domain resource with related resource links which have been left out for brevity. See Chapter 7, *Domains* for more information on all domain parameters.

```
{
```

```
  "api_version": 1.6,
  "data": {
    "allowed_gear_sizes": [
      "small"
    ],
    "creation_time": "2013-11-07T00:28:13Z",
    "id": "527ade9d7f9c48d371000009",
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "owner",
            "role": "admin"
          }
        ],
        "id": "527ade897f9c48d371000001",
        "login": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "mydomainx",
    "suffix": "rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Changed namespace to 'mydomainx'."
    }
  ],
  "status": "ok",
  ],
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "domain",
  "version": "1.6"
}
```


7.6. Remove Self from a Domain

Description

Remove yourself from a domain.

Method and URL Structure

Method	URL Structure
DELETE	**/broker/rest/domain/*:name*/members/self**

Request Parameters

Not applicable

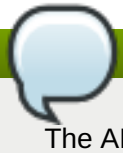
cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/domain/mydomain/members/self --user
user@example.com:password
```

7.7. Delete a Domain

Description

Delete an existing domain.



Note

The API exits with an error message if there are applications within the domain to be deleted. Therefore, all applications must be deleted before deleting a domain. Setting the **force** parameter to *true* automatically deletes all applications under that domain and then deletes the domain.

Warning

Deleting a domain with the **force** parameter set to *true* deletes all applications created within that domain. This operation cannot be reversed.

Method and URL Structure

Method	URL Structure
DELETE	**/broker/rest/domains/*:name***

Request Parameters

Name	Description	Required	Default
force	Force delete domain	No	**false**

See Section A.3, “Domains” for more information about the valid options applicable to these request parameters.

cURL Command Example

```
$ curl -X DELETE https://openshift.redhat.com/broker/rest/domains/mydomain -
-user user@example.com:password
```

JSON Response

If there are applications under the domain to be deleted, the API exits with an error message.

```
{
    "api_version": 1.6,
    "data": null,
    "messages": [
        {
            "exit_code": 128,
            "field": null,
            "severity": "error",
            "text": "Domain contains applications. Delete applications first
or set force to true."
        }
    ],
    "status": "unprocessable_entity",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
   ],
   "type": null,
   "version": "1.6"
}
```

In this case, the user must delete all applications that exist under the domain or set the **`force`** parameter to *true* to automatically delete the applications as part of the domain delete process.

Chapter 8. Teams

This chapter provides information on API resources to create and manage OpenShift Enterprise teams. A team comprises a group of developers for the purpose of access control. Team members are added to a domain similar to how users are added.

The following table describes each parameter associated with an OpenShift Enterprise team.

Name	Description
name	Name of the team
id	Unique identifier of the team

8.1. Create Team

Description

Create a new team. Note that the maximum number of teams that can be created is determined by the **max_teams** capability. See Chapter 4, *User Information* for more information on user capabilities.

When creating a team, the following guidelines apply:

- Team names must be a minimum of 2 characters in length, with a maximum length of 250 characters
- If there are multiple teams under one owner, each team must have a unique name
- Team names cannot be modified

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/teams**

Request Parameters

Name	Description	Required	Default
name [a]	Name of the team	Yes	

[a] Must be minimum of 2 characters, and maximum of 250 characters in length

See Section A.4, “Teams” for more information on request parameters for this resource.

Request

```
{
  "name": "myteam",
}
```

cURL Command Example

```
$ curl -X POST https://openshift.redhat.com/broker/rest/teams --user
user@example.com:password --data-urlencode name=myteam
```

JSON Response

The API returns the team resource with related resource links which have been left out for brevity. See Chapter 8, *Teams* for more information on all team parameters.


```
{
  "api_version": 1.6,
  "data": {
    "id": "5333d8b2a9429d1c3e0000ae",
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "owner",
            "role": "view"
          }
        ],
        "id": "5333d64fa9429defe8000001",
        "links": {
          "GET": {
            "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/5333d64fa9429defe8000001",
            "method": "GET",
            "optional_params": [

            ],
            "rel": "Get member",
            "required_params": [

            ]
          },
          "UPDATE": {
            "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/5333d64fa9429defe8000001",
            "method": "PUT",
            "optional_params": [

            ],
            "rel": "Update member",
            "required_params": [
              {
                "description": "New role for member",
                "invalid_options": [

                ],
                "name": "role",
                "type": "string",
                "valid_options": [

                ]
              }
            ]
          },
          "DELETE": {
            "href":
```

```
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/5333d64fa9429defe8000001",
            "method": "DELETE",
            "optional_params": [

            ],
            "rel": "Delete member",
            "required_params": [

            ]
          }
        },
        "login": "user@example.com",
        "owner": true,
        "role": "view",
        "type": "user"
      }
    ],
    "name": "myteam"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Added myteam"
    }
  ],
  "status": "created",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "team",
  "version": "1.6"
}
```


8.2. List Teams

Description

Get a list of teams that you are a member of.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/teams**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/teams --user
user@example.com:password
```

JSON Response

The API returns a list of all teams that you are a member of. The related resource links returned by the API have been left out for brevity.

```
{
  "api_version": 1.6,
  "data": [
    {
      "id": "5333d8b2a9429d1c3e0000ae",
      "links": {
        "GET": {
          "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae",
          "method": "GET",
          "optional_params": [

          ],
          "rel": "Get team",
          "required_params": [

          ]
        },
........

      },
      "name": "myteam"
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Listing teams for user user@example.com"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
```

```
  ],
  "type": "teams",
  "version": "1.6"
}
```

8.3. List Teams by Owner

Description

Get a list of teams owned by a particular user, specified with the **owner** parameter.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/teams**

Request Parameters

Name	Description	Required	Default
owner	List teams owned by specified user, or @self for current user	Yes	

See Section A.4, “Teams” for more information on request parameters for this resource.

Request

```
{
  "owner": "@self"
}
```

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/teams --user
user@example.com:password --data-urlencode owner=@self
```

JSON Response

The API returns a list of teams owned by the specified user. The related resource links returned by the API have been left out for brevity.

```
{
  "api_version": 1.6,
  "data": [
    {
      "id": "5333d8b2a9429d1c3e0000ae",
      "links": {
        "GET": {
          "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae",
          "method": "GET",
          "optional_params": [
```

```
          ],
          "rel": "Get team",
          "required_params": [

          ]
        },
........

      },
      "name": "myteam"
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Listing teams for user user@example.com"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "teams",
  "version": "1.6"
}
```

8.4. Search Teams by Name

Description

Search teams with the specified string.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/teams**

Request Parameters

Name	Description	Required	Default
search	Search string of at least 2 characters	Yes	
global	Boolean parameter to indicate whether global teams or teams owned by users are searched	Yes	

See Section A.4, “Teams” for more information on request parameters for this resource.

Request

```
{
  "search": "engineering",
  "global": true
}
```

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/teams --user
user@example.com:password --data-urlencode search=engineering --data-
urlencode global=true
```

JSON Response

The API returns a list of teams matching the search string.

```
{
  "api_version": 1.6,
  "data": [
    {
      "global": true,
      "id": "534c7827b3868d3eb3000001",
      "links": {
        "GET": {
          "href":
"https://openshift.redhat.com/broker/rest/team/534c7827b3868d3eb3000001",
          "method": "GET",
          "optional_params": [

          ],
          "rel": "Get team",
          "required_params": [

          ]
        },
        "LIST_MEMBERS": {
          "href":
"https://openshift.redhat.com/broker/rest/team/534c7827b3868d3eb3000001/memb
ers",
          "method": "GET",
          "optional_params": [

          ],
          "rel": "list members",
          "required_params": [

          ]
        }
      },
      "maps_to": "cn=engineering-team,ou=Groups,dc=example,dc=com",
      "name": "engineering-team"
    }
  ],
  "messages": [
```

```
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Found 1 teams"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "teams",
  "version": "1.6"
}
```

8.5. Get Team Information

Description

Get information about an existing team.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/team/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae --
user user@example.com:password
```

JSON Response

The API returns the team resource with related resource links which have been left out for brevity. See Chapter 8, *Teams* for more information on all team resource parameters.

```
{
  "api_version": 1.6,
  "data": {
    "id": "5333d8b2a9429d1c3e0000ae",
    "links": {
      "GET": {
```

```
        "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae",
        "method": "GET",
        "optional_params": [

        ],
        "rel": "Get team",
        "required_params": [

        ]
      },
........

    ],
    "name": "myteam"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Showing team 5333d8b2a9429d1c3e0000ae for user
user@example.com"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "team",
  "version": "1.6"
}
```


8.6. Remove Self from a Team

Description

Remove yourself from a team owned by another user.

Method and URL Structure

Method	URL Structure
DELETE	**/broker/rest/team/*:id*/members/self**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/membe
rs/self --user user@example.com:password
```

8.7. Delete Team

Description

Delete an existing team.

Method and URL Structure

Method	URL Structure
DELETE	**/broker/rest/team/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae --
user user@example.com:password
```

Chapter 9. Members

This chapter provides information on API resources to create and manage OpenShift Enterprise members. A member is a developer or a team with access to a domain.

The following table describes each parameter associated with members.

Name	Description
id	Unique identifier of member
role	Type of role a member is provided
type	Type of member; for example, user or team
from	Source of the membership
owner	Indicates whether the member is owner of the resource
members	An array of members to add with corresponding type and role; for example, {'members': [{'login': 'foo', 'type': 'user', 'role': 'view'}, {'id': '5326534e2046fde9d3000001', 'type': 'team', 'role': 'none'}]}

9.1. List Members of a Domain

Description

Get a list of members that belong to the specified domain.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/domains/*:name*/members**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/domains/mydomain/members --user
user@example.com:password
```

JSON Response

The API returns a list of all members belonging to the specified domain.

```
{
  "api_version": 1.6,
  "data": [
    {
      "explicit_role": null,
      "from": [
        {
          "type": "owner",
          "role": "admin"
        }
      ],
```

```
      "id": "521bf803656c674541000001",
      "name": "user@example.com",
      "owner": true,
      "role": "admin",
      "type": "user"
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Found 1 member."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "members",
  "version": "1.6"
}
```


9.2. Add or Remove Domain Members

Description

Add or remove one or more domain members. If a member has the **`admin`** role on a domain, they can:

- Add a team they own as a member of a domain
- Change the role of any team that is already a member of a domain
- Remove any team that is already a member of a domain

Note that the number of teams allowed in a domain is determined by the **`MAX_TEAMS_PER_RESOURCE`** parameter.

Method and URL Structure

Method	URL Structure
`PATCH`	**`/broker/rest/domains/`*`:name`*`/members`**

Request Parameters

Name	Description	Required	Default
`role`	Type of role a member has on the domain	Yes	
`id`	Unique user or team identifier	No	

Name	Description	Required	Default
login	User's login attribute; only used when the member type is 'user'	No	
type	Indicates whether a member is a user, or a team	No	**user**
members	An array of members to add with corresponding **id** or user **login**, **type**, and **role**		

See Section A.5, “Members” for more information about the valid options applicable to these request parameters.

Request

```
{
  "role": "view",
  "login": "member@example.com"
}
```

cURL Command Example

```
$ curl -X PATCH
https://openshift.redhat.com/broker/rest/domains/mydomain/members --user
user@example.com:password --data-urlencode role=view --data-urlencode
login=member@memberemail.com
```

JSON Response

The sample JSON response below shows that a new domain member has been added.

```
{
    "api_version": 1.6,
    "data": {
        "explicit_role": "view",
        "id": "526097602587c8242100006b",
        "login": "member@memberemail.com",
        "owner": false,
        "role": "view",
        "type": "user"
    },
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "index": null,
            "severity": "info",
            "text": "Added 1 member."
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
```

```
      1.5,
      1.6
    ],
    "type": "member",
    "version": "1.6"
}
```

9.3. List Members of an Application

Description

Get a list of members that belong to the specified application.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/application/*:id*/members**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/521bf818656c67309c00000
1/members --user user@example.com:password
```

JSON Response

The API returns a list of all members belonging to the specified application.

```
{
  "api_version": 1.6,
  "data": [
    {
      "explicit_role": null,
      "from": [
        {
          "type": "domain",
          "role": "admin"
        }
      ],
      "id": "521bf803656c674541000001",
      "name": "user@example.com",
      "owner": true,
      "role": "admin",
      "type": "user"
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
```

```
      "severity": "info",
      "text": "Found 1 member."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "memberS",
  "version": "1.6"
}
```

9.4. Add Team Member

Description

Add a member to an existing team. Note that the maximum number of members a team can have is determined by the **MAX_MEMBERS_PER_RESOURCE** configuration parameter.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/team/*:id*/members**

Request Parameters

Name	Description	Required	Default
role	Type of role user has on the team	Yes	
id	Unique user identifier	No	
login	User's login attribute	No	

See Section A.5, “Members” for more information about the valid options applicable to these request parameters.

Request

```
{
  "role": "view",
  "login": "member@example.com"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/membe
rs --user user@example.com:password --data-urlencode role=view --data-
urlencode login=member@example.com
```

JSON Response

The sample JSON response below shows that a new member has been added to the specified team. Unnecessary information and related resource links returned by the API have been removed for brevity.


```
{
  "api_version": 1.6,
  "data": {
    "explicit_role": "view",
    "id": "533369f861b322dfc1000003",
    "links": {
      "GET": {
        "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/533369f861b322dfc1000003",
        "method": "GET",
        "optional_params": [

        ],
        "rel": "Get member",
        "required_params": [

        ]
      },

    },
    "login": "member@example.com",
    "owner": false,
    "role": "view",
    "type": "user"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Added 1 member."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
```

```
  ],
  "type": "member",
  "version": "1.6"
}
```

9.5. List Members of a Team

Description

Get a list of members that belong to the specified team.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/team/*:id*/members**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/membe
rs --user user@example.com:password
```

JSON Response

The API returns a list of all members belonging to the specified team.

```
{
  "api_version": 1.6,
  "data": [
    {
      "explicit_role": null,
      "from": [
        {
          "type": "owner",
          "role": "view"
        }
      ],
      "id": "5333d64fa9429defe8000001",
      "links": {
        "GET": {
          "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/5333d64fa9429defe8000001",
          "method": "GET",
          "optional_params": [

          ],
          "rel": "Get member",
          "required_params": [
```

```
          ]
        },

      "login": "member@example.com",
      "owner": false,
      "role": "view",
      "type": "user"
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Found 2 members."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "members",
  "version": "1.6"
}
```


9.6. Add or Remove Team Members

Description

Add one or more members to a team, or remove them from a team.

Method and URL Structure

Method	URL Structure
PATCH	**/broker/rest/team/*:id*/members**

Request Parameters

Name	Description	Required	Default
role	Type of role user has on the team	Yes	
id	Unique user identifier	No	
login	User's login attribute	No	
members	An array of members to add with corresponding type and role	No	

See Section A.5, “Members” for more information about the valid options applicable to these request parameters.

Request

```
{
  "role": "view",
  "login": "member@example.com"
}
```

cURL Command Example

```
$ curl -X PATCH
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/membe
rs --user user@example.com:password --data-urlencode role=view --data-
urlencode login=member@example.com
```

JSON Response

The API returns the member resource with related resource links which have been left out for brevity. See Chapter 9, *Members* for more information on all member parameters.

```
{
  "api_version": 1.6,
  "data": {
    "explicit_role": "view",
    "id": "533369f861b322dfc1000003",
    "links": {
      "GET": {
        "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/533369f861b322dfc1000003",
        "method": "GET",
        "optional_params": [

        ],
        "rel": "Get member",
        "required_params": [

        ]
      },

    },
    "login": "team.member@mycompany.com",
    "owner": false,
    "role": "view",
    "type": "user"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Updated 1 member."
```

```
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "member",
  "version": "1.6"
}
```

9.7. Get Member Information

Description

Get information about an existing team member.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/team/*:id*/member/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/membe
r/533369f861b322dfc1000003 --user user@example.com:password
```

JSON Response

The API returns the member resource with related resource links which have been left out for brevity. See Chapter 9, *Members* for more information on all member resource parameters.

```
{
  "api_version": 1.6,
  "data": {
    "explicit_role": "view",
    "id": "533369f861b322dfc1000003",
    "links": {
      "GET": {
        "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/533369f861b322dfc1000003",
        "method": "GET",
```

```
        "optional_params": [

        ],
        "rel": "Get member",
        "required_params": [

        ]
      },

    },
    "login": "member@example.com",
    "owner": false,
    "role": "view",
    "type": "user"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Showing member 533369f861b322dfc1000003"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "member",
  "version": "1.6"
}
```


9.8. Update Team Member

Description

Update the role of a team member.

Method and URL Structure

Method	URL Structure
PUT	**/broker/rest/team/*:id*/member/*:id***

See Section A.5, “Members” for more information about the valid options applicable to these request parameters.

Request Parameters

Name	Description	Required	Default
role	Type of role user has on the team	Yes	

Request

```
{
  "role": "view",
}
```

cURL Command Example

```
$ curl -X PUT
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/membe
r/533369f861b322dfc1000003 --user user@example.com:password --data-urlencode
role=view
```

JSON Response

The API returns the member resource with related resource links which have been left out for brevity. See Chapter 9, *Members* for more information on all member parameters.

```
{
  "api_version": 1.6,
  "data": {
    "explicit_role": "view",
    "id": "533369f861b322dfc1000003",
    "links": {
      "GET": {
        "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/533369f861b322dfc1000003",
        "method": "GET",
        "optional_params": [

        ],
        "rel": "Get member",
        "required_params": [

        ]
      },

    },
    "login": "member@example.com",
    "owner": false,
    "role": "view",
    "type": "user"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Updated member"
```

```
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "member",
  "version": "1.6"
}
```

9.9. Delete Team Member

Description

Delete a team member.

Method and URL Structure

Method	URL Structure
DELETE	**/broker/rest/team/*:id*/member/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/membe
r/533369f861b322dfc1000003--user user@example.com:password
```

JSON Response

The specified member is deleted from the team, and the API returns the member resource. Other information and related resource links have been left out for brevity. See Chapter 9, *Members* for more information on all member parameters.

```
{
  "api_version": 1.6,
  "data": {
    "explicit_role": "view",
    "id": "533369f861b322dfc1000003",
    "links": {
      "GET": {
        "href":
"https://openshift.redhat.com/broker/rest/team/5333d8b2a9429d1c3e0000ae/memb
er/533369f861b322dfc1000003",
        "method": "GET",
```

```
        "optional_params": [

        ],
        "rel": "Get member",
        "required_params": [

        ]
      },

    },
    "login": "member@example.com",
    "owner": false,
    "role": "view",
    "type": "user"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Updated member"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "member",
  "version": "1.6"
}
```


In this case, the user must delete all applications that exist under the domain or set the **`force`** parameter to *true* to automatically delete the applications as part of the domain delete process.

Chapter 10. Quickstarts

This chapter provides information on API resources for OpenShift quickstart applications. Quickstarts provide quick access to new technology with code and libraries preconfigured, but you are responsible for updating the core libraries for security updates.

The following table describes each parameter associated with an OpenShift quickstart application.

Name	Description
id	Unique identifier of the quickstart.
search	The search term to use for the quickstart.

10.1. List Quickstarts

Description

List all available quickstarts. The client will only see this resource if there are quickstarts available, and it will be absent if there are none. Unlike other REST API calls, the following guidelines apply when retrieving a list of quickstarts:

- API versioning is not supported
- Only JSON is supported
- The body of the API response is different from other API responses
- Parse errors or unexpected data values must be handled by omitting the entry

Method and URL Structure

Method	URL Structure
GET	**/api/v1/quickstarts/promoted.json**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://www.openshift.com/api/v1/quickstarts/promoted.json --
user user@example.com
```

JSON Response

The API returns a list of all quickstarts that are available. See Chapter 10, *Quickstarts* for more information on all quickstart parameters.

```
{
    "data": [
        {
            "quickstart": {
                "id": "13145",
                "href": "https://www.openshift.com/quickstarts/drupal-7",
                "name": "Drupal 7",
```

```
                "updated": "1365011911",
                "summary": "An open source content management platform
written in PHP powering millions of websites and applications. It is built,
used, and supported by an active and diverse community of people around the
world. This quickstart will download and install the most recent stable
version of Drupal and then generate a new site for you.  Your administrative
username and password will default to admin/openshift_changeme, so don't
forget to alter them once you log in!\n\nWithout sharing a filesystem,
Drupal can't be web scaled, but the README.md describes a workaround that
will allow you to scale if you don't need direct file upload into
Drupal.\n\nCreating this quickstart may take several minutes.  You may need
to restart the application once the database is configured. NOTE: If you want
to run the Drupal cron tasks, please install the cron cartridge.",
                "body": "<p>An open source content management platform
written in PHP powering millions of websites and applications. It is built,
used, and supported by an active and diverse community of people around the
world. This quickstart will download and install the most recent stable
version of Drupal and then generate a new site for you.  Your administrative
username and password will default to admin/openshift_changeme, so don't
forget to alter them once you log in!</p>\n\n<p>Without sharing a
filesystem, Drupal can't be web scaled, but the <a
href=\"https://github.com/openshift/drupal-
quickstart/blob/master/README.md\">README.md</a> describes a workaround that
will allow you to scale if you don't need direct file upload into Drupal.
</p>\n\n<p>Creating this quickstart may take several minutes.  You may need
to restart the application once the database is configured. NOTE: If you want
to run the Drupal cron tasks, please install the cron cartridge.</p>",
                "cartridges": "php-*, mysql-*",
                "website": "http://drupal.org/",
                "tags": "cms, drupal, instant_app, not_scalable, php",
                "language": "PHP",
                "initial_git_url": "https://github.com/openshift/drupal-
quickstart.git",
                "provider": "openshift"
            }
        },
    ]
}
```


10.2. Show Quickstart

Description

Get information about the specified quickstart. The client does not have to retrieve the quickstarts list and scan for a known ID.

Method and URL Structure

Method	URL Structure
GET	**/api/v1/quickstarts/*:id***

Request Parameters

Name	Description	Required	Default
id	Unique identifier of the quickstart	Yes	

cURL Command Example

```
$ curl -X GET https://www.openshift.com/api/v1/quickstarts/12724 --user
user@example.com
```

JSON Response

The API returns information about the specified quickstart.

```
{
    "data": [
        {
            "quickstart": {
                "id": "12724",
                "href": "https://www.openshift.com/quickstarts/wordpress-
3x",
                "name": "WordPress 3.x",
                "updated": "1365011887",
                "summary": "A semantic personal publishing platform written
in PHP with a MySQL back end, focusing on aesthetics, web standards, and
usability.  Currently using version 3.5.1.\n\nThe first time you access the
app you'll be asked to set a username and password and give your blog a name.
Be sure to track security updates from upstream.",
                "body": "<p>A semantic personal publishing platform written
in PHP with a MySQL back end, focusing on aesthetics, web standards, and
usability.  Currently using version 3.5.1.</p>\n\n<p>The first time you
access the app you'll be asked to set a username and password and give your
blog a name.  Be sure to track security updates from upstream.</p>",
                "cartridges": "php-*, mysql-*",
                "website": "http://wordpress.org",
                "tags": "blog, cms, instant_app, not_scalable",
                "language": "PHP",
                "initial_git_url": "git://github.com/openshift/wordpress-
example.git",
                "provider": "openshift"
            }
        }
    ]
}
```

10.3. Search Quickstarts

Description

Search for a quickstart using a search term.

Method and URL Structure

Method	URL Structure
GET	**/api/v1/quickstarts.json?search=*search_term***

Request Parameters

Name	Description	Required	Default
search	Search term to use for the quickstart.	Yes	

cURL Command Example

```
$ curl -X GET https://www.openshift.com/api/v1/quickstarts.json?
search=wordpress --user user@example.com
```

JSON Response

The API returns information about all quickstarts that match the specified search string. See Chapter 10, *Quickstarts* for more information on all quickstart parameters.

```
{
    "data": [
        {
            "quickstart": {
                "id": "12724",
                "href": "https://www.openshift.com/quickstarts/wordpress-
3x",
                "name": "WordPress 3.x",
                "updated": "1365011887",
                "summary": "A semantic personal publishing platform written
in PHP with a MySQL back end, focusing on aesthetics, web standards, and
usability.  Currently using version 3.5.1.\n\nThe first time you access the
app you'll be asked to set a username and password and give your blog a name.
Be sure to track security updates from upstream.",
                "body": "<p>A semantic personal publishing platform written
in PHP with a MySQL back end, focusing on aesthetics, web standards, and
usability.  Currently using version 3.5.1.</p>\n\n<p>The first time you
access the app you'll be asked to set a username and password and give your
blog a name.  Be sure to track security updates from upstream.</p>",
                "cartridges": "php-*, mysql-*",
                "website": "http://wordpress.org",
                "tags": "blog, cms, instant_app, not_scalable",
                "language": "PHP",
                "initial_git_url": "git://github.com/openshift/wordpress-
example.git",
                "provider": "openshift"
            }
        }
    ]
}
```

Chapter 11. Applications

This chapter provides information on API resources that allow a client to create and manage OpenShift applications. OpenShift supports a number of application frameworks such as PHP, JBoss, and Ruby.

The following table describes each parameter associated with an OpenShift application.

Name	Description
name	Name of the application.
framework	Application framework. For example, JBoss, PHP, or Ruby.
domain_id	The domain ID of the application.
embedded	List of cartridges that have been added to this application.
creation_time	Time the application was created.
scalable	Whether application is scaled or not scaled. The values are either **true** or **false**.
gear_count	Number of gears for this application.
gear_profile	Gear size of an application. For example, **small**.
aliases	Application server aliases, if applicable.
app_url	The URL to access this application.
git_url	The URL to access the Git repository for this application.
ssh_url	The URL to access this application using an SSH terminal.
health_check_path	The URL to check if the application is running.
uuid	Unique identifier for this application.
initial_git_url	The URL that was used to initialize the Git repository for this application.

11.1. Resolve DNS

Description

Check whether the DNS is created with an actual DNS nameserver lookup that is not subject to caching. When DNS availability is checked with the client tools, the value gets cached for approximately 30 seconds. This REST API call checks for DNS availability by directly querying the DNS servers.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/application/*:id*/dns_resolvable**

Request Parameters

Not applicable

cURL Command Example

```
$ curl GET
https://openshift.redhat.com/broker/rest/applications/534253991015616165707776/dns_resolvable --user user@example.com
```

JSON Response

The following is an example of the API response if the DNS is resolvable. If the DNS is not resolved an error

message is returned.

```
{
    "api_version": 1.6,
    "data": true,
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Resolved DNS myapp-mydomain.rhcloud.com"
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
   ],
   "type": "boolean",
   "version": "1.6"
}
```

11.2. Create an Application

Description

Create a new application. Note that if the specified domain does not exist when attempting to create an application, a domain is automatically created. See Section 7.1, “Create a Domain” for more information on how to create a domain.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/domain/*:domain_name*/applications**

Request Parameters

Name	Description	Required	Default
name	Name of application	Yes	
cartridges	Add cartridges to the application by specifying an array of one or more cartridges, using the name or unique ID	No	
template	UUID of application template	No	
scale	Mark application as scalable	No	**false**
gear_size	Cartridge gear size	No	**small**
initial_git_url	URL to Git source code repository that is the basis for this application	No	

Name	Description	Required	Default
cartridges[][name]	Name of cartridge	No	
cartridges[][gear_size]	Gear size of each individual cartridge. If **gear_size** is not specified, default gear size is used depending on user input	No	
cartridges[][url]	URL to a downloadable cartridge; multiple URLs can be specified	No	
environment_variables	Add or update application environment variables	No	
region	Restrict the application to the specified region	No	

Note

Valid cartridge options may be different based on your OpenShift Enterprise deployment.

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "name": "myapp",
  "cartridges": "ruby-2.0",
  "scale": "true",
  "gear_size": "small",
  "initial_git_url": ""
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/domain/mydomain/applications --user
user@example.com:password --data-urlencode name=myapp --data-urlencode
cartridges=ruby-2.0 --data-urlencode scale=true --data-urlencode
gear_size=small
```

In the previous cURL command example, the **gear_size** parameter is applied to all cartridges that are added to the specified application. However, the following cURL command example shows how to apply the **gear_size** parameter to individual cartridges when adding multiple cartridges to an application.

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/domain/mydomain/applications --user
user@example.com:password --data-urlencode name=mysecondapp --data-urlencode
cartridges=[][name]=jbosseap-6 --data-urlencode cartridges[]
[gear_size]=medium --data-urlencode cartridges[][name]=mysql-5.5 --data-
urlencode cartridges[][gear_size]=small
```

JSON Response

The API returns information about the newly created application with related resource links which have been left out for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp was created."
    },
    {
      "exit_code": 0,
      "field": null,
      "severity": "warning",
      "text": "HAProxy instance is started\n"
```

```
    }
  ],
  "status": "created",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6,
    1.7
  ],
  "type": "application",
  "version": "1.7"
}
```

Note

An application may not be immediately available after it is created. Therefore, ensure the application DNS resolves correctly before executing other REST API calls to that application.

11.3. List Applications by Owner

Description

Get a list of applications owned by a particular user, specified with the **`owner`** parameter. If no owner is specified, it automatically defaults to self.

Method and URL Structure

Method	URL Structure
`GET`	**`/broker/rest/applications`**

Request Parameters

Name	Description	Required	Default
`owner`	List applications owned by specified user, or @self for current user	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "owner": "@self"
}
```

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/applications --user
user@example.com:password --data-urlencode owner=@self
```

JSON Response

The API returns a list of applications owned by the specified user. The related resource links returned by the API have been left out for brevity.

```
"api_version": 1.6,
  "data": [
    {
      "aliases": [
        {
          "certificate_added_at": "2014-03-27T00:00:00Z",
          "has_private_ssl_certificate": true,
          "id": "myappalias",
          "links": {
            "GET": {
              "href":
"https://openshift.redhat.com/broker/rest/application/5333d664a9429d1c3e0000
0c/alias/myappalias",
              "method": "GET",
              "optional_params": [

              ],
              "rel": "Get alias",
              "required_params": [

              ]
            },
........
          },
          "login": "member@example.com",
          "owner": false,
          "role": "view",
          "type": "user"
        }
      ],
      "name": "myapp",
      "scalable": true,
      "ssh_url": "ssh://5333d664a9429d1c3e00000c@myapp-mydomain.rhcloud.com"
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Found 1 applications."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
```

```
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "applications",
  "version": "1.6"
}
```

11.4. List Applications for a User

Description

List all applications for the specified user.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/applications**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/applications --user
user@example.com:password
```

JSON Response

The API returns a list of all applications for the specified user. The related resource links returned by the API have been left out for brevity. See Chapter 11, *Applications* for a description of each response parameter associated with an application.

```
{
    "api_version": 1.6,
    "data": [
        {
            "aliases": [],
            "app_url": "http://myapp-mydomain.rhcloud.com/",
            "build_job_url": null,
            "building_app": null,
            "building_with": null,
            "creation_time": "2013-08-20T07:21:50Z",
            "domain_id": "mydomain",
            "embedded": {
                "haproxy-1.4": {},
                "mysql-5.5": {
                    "connection_url":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/",
                    "username": "adminxcYKabL",
```

```
                    "password": "IgsS3_wQYF38",
                    "database_name": "myapp",
                    "info": "Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
                }
            },
            "framework": "php-5.4",
            "gear_count": 2,
            "gear_profile": "medium",
            "git_url": "ssh://5213190e2587c8817a000121@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
            "health_check_path": "health_check.php",
            "id": "5213190e2587c8817a000121",
            "initial_git_url": null,
            "links": {
            },
            "members": [
                {
                    "explicit_role": null,
                    "from": [
                        {
                            "type": "domain",
                            "role": "admin"
                        }
                    ],
                    "id": "520bd6bbdbd93c3dee00000d",
                    "name": "user@example.com",
                    "owner": true,
                    "role": "admin",
                    "type": "user"
                }
            ],
            "name": "myapp",
            "scalable": true,
            "ssh_url": "ssh://5213190e2587c8817a000121@myapp-
mydomain.rhcloud.com"
        }
    ],
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Found 1 applications."
        }
    ],
    "status": "ok",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
```

```
    ],
    "type": "applications",
    "version": "1.6"
}
```

11.5. List Applications for a Domain

Description

List all applications for the specified domain.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/domain/*:name*/applications**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/domain/mydomain/applications --user
user@example.com:password
```

JSON Response

The API returns a list of all applications under the specified domain. The related resource links returned by the API have been left out for brevity. See Chapter 11, *Applications* for a description of each response parameter associated with an application.

```
{
    "api_version": 1.6,
    "data": [
        {
            "aliases": [],
            "app_url": "http://myapp-mydomain.rhcloud.com/",
            "build_job_url": null,
            "building_app": null,
            "building_with": null,
            "creation_time": "2013-08-20T07:21:50Z",
            "domain_id": "mydomain",
            "embedded": {
                "haproxy-1.4": {},
                "mysql-5.5": {
                    "connection_url":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/",
                    "username": "adminxcYKabL",
                    "password": "IgsS3_wQYF38",
                    "database_name": "myapp",
                    "info": "Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
                }
```

```
            },
            "framework": "php-5.4",
            "gear_count": 2,
            "gear_profile": "medium",
            "git_url": "ssh://5213190e2587c8817a000121@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
            "health_check_path": "health_check.php",
            "id": "5213190e2587c8817a000121",
            "initial_git_url": null,
            "links": {
            },
            "members": [
                {
                    "explicit_role": null,
                    "from": [
                        {
                            "type": "domain",
                            "role": "admin"
                        }
                    ],
                    "id": "520bd6bbdbd93c3dee00000d",
                    "name": "user@example.com",
                    "owner": true,
                    "role": "admin",
                    "type": "user"
                }
            ],
            "name": "myapp",
            "scalable": true,
            "ssh_url": "ssh://5213190e2587c8817a000121@myapp-
mydomain.rhcloud.com"
        }
    ],
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Found 1 applications."
        }
    ],
    "status": "ok",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
    ],
    "type": "applications",
    "version": "1.6"
}
```


11.6. List Applications and Cartridges

11.6. List Applications and Cartridges

Description

Get a list of all applications for the specified domain including all cartridges.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/domain/*:name*/applications?include=cartridges**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/domains/mydomain/applications?
include=cartridges --user user@example.com
```

JSON Response

The API returns a list of all applications and embedded cartridges. The related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for a description of each response parameter associated with an application.

```
{
    "api_version": 1.6,
    "data": [
        {
            "aliases": [],
            "app_url": "http://myapp-mydomain.rhcloud.com/",
            "build_job_url": null,
            "building_app": null,
            "building_with": null,
            "cartridges": [
                {
                    "additional_gear_storage": 0,
                    "base_gear_storage": 1,
                    "collocated_with": [
                        "haproxy-1.4"
                    ],
                    "current_scale": 1,
                    "description": "PHP is a general-purpose server-side
scripting language originally designed for Web development to produce dynamic
Web pages. Popular development frameworks include: CakePHP, Zend, Symfony,
and Code Igniter.",
                    "display_name": "PHP 5.4",
                    "gear_profile": "medium",
                    "help_topics": {},
                    "license": "The PHP License, version 3.0",
                    "license_url": "http://www.php.net/license/3_0.txt",
            "members": [
                {
```

```
                    "explicit_role": null,
                    "from": [
                        {
                            "type": "domain",
                            "role": "admin"
                        }
                    ],
                    "id": "520bd6bbdbd93c3dee00000d",
                    "name": "user@example.com",
                    "owner": true,
                    "role": "admin",
                    "type": "user"
                }
            ],
            "name": "myapp",
            "scalable": true,
            "ssh_url": "ssh://5213190e2587c8817a000121@myapp-
mydomain.rhcloud.com"
        }
    ],
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Found 1 applications."
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
   ],
   "type": "applications",
   "version": "1.6"
}
```


11.7. Get Application Information

Description

Get information about an existing application.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/application/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/52131ae36cec0e0d5f00012
b
```

JSON Response

The API returns information about the specified application and related resource links which have been left out for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
    "api_version": 1.6,
    "data": [
        {
            "aliases": [],
            "app_url": "http://myapp-mydomain.rhcloud.com/",
            "build_job_url": null,
            "building_app": null,
            "building_with": null,
            "creation_time": "2013-08-20T07:29:39Z",
            "domain_id": "mydomain",
            "embedded": {
                "haproxy-1.4": {},
                "mysql-5.5": {
                    "connection_url":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/",
                    "username": "adminF3x1YFi",
                    "password": "vja3unpGDueg",
                    "database_name": "myapp",
                    "info": "Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
                }
            },
            "framework": "php-5.4",
            "gear_count": 2,
            "gear_profile": "medium",
            "git_url": "ssh://52131ae36cec0e0d5f00012b@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
            "health_check_path": "health_check.php",
            "id": "52131ae36cec0e0d5f00012b",
            "initial_git_url": null,
            "links": {
                "GET": {
                    "href":
"https://openshift.redhat.com/broker/rest/applications/52131ae36cec0e0d5f000
12b",
                    "method": "GET",
                    "optional_params": [],
                    "rel": "Get application",
                    "required_params": []
                },
            },
```

```
            "members": [
                {
                    "explicit_role": null,
                    "from": [
                        {
                            "type": "domain",
                            "role": "admin"
                        }
                    ],
                    "id": "52054aef03ef64101000000d",
                    "name": "user@example.com",
                    "owner": true,
                    "role": "admin",
                    "type": "user"
                }
            ],
            "name": "myapp",
            "scalable": true,
            "ssh_url": "ssh://52131ae36cec0e0d5f00012b@myapp-
mydomain.rhcloud.com"
        }
    ],
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Found 1 applications."
        }
    ],
    "status": "ok",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
    ],
    "type": "applications",
    "version": "1.6"
}
```


11.8. Get Application and Cartridge Information

Description

Get information about an existing application and its embedded cartridges.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/application/*:id*?include=cartridges**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/5213190e2587c8817a00012
1?include=cartridges --user user@example.com
```

JSON Response

The API returns information about the specified application and its embedded cartridges. The related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.


```
{
    "api_version": 1.6,
    "data": {
        "aliases": [],
        "app_url": "http://myapp-mydomain.rhcloud.com/",
        "build_job_url": null,
        "building_app": null,
        "building_with": null,
        "cartridges": [
            {
                "additional_gear_storage": 0,
                "base_gear_storage": 1,
                "collocated_with": [
                    "haproxy-1.4"
                ],
                "current_scale": 1,
                "description": "PHP is a general-purpose server-side
scripting language originally designed for Web development to produce dynamic
Web pages. Popular development frameworks include: CakePHP, Zend, Symfony,
and Code Igniter.",
                "display_name": "PHP 5.4",
                "gear_profile": "medium",
                "help_topics": {},
                "license": "The PHP License, version 3.0",
                "license_url": "http://www.php.net/license/3_0.txt",
                "links": {
                    "GET": {
                        "href":
"https://openshift.redhat.com/broker/rest/applications/5213190e2587c8817a000
121/cartridge/php-5.4",
                        "method": "GET",
                        "optional_params": [],
                        "rel": "Get cartridge",
                        "required_params": []
                    },
                    "UPDATE": {
                        "href":
"https://openshift.redhat.com/broker/rest/applications/5213190e2587c8817a000
121/cartridge/php-5.4",
                        "method": "PUT",
```

```
                        "optional_params": [
                            {
                                "default_value": null,
                                "description": "Additional filesystem
storage in gigabytes on each gear having cartridge php-5.4",
                                "name": "additional_gear_storage",
                                "type": "integer",
                                "valid_options": []
                            },
                            {
                                "default_value": null,
                                "description": "Minimum number of gears
having cartridge php-5.4",
                                "name": "scales_from",
                                "type": "integer",
                                "valid_options": []
                            },
                            {
                                "default_value": null,
                                "description": "Maximum number of gears
having cartridge php-5.4",
                                "name": "scales_to",
                                "type": "integer",
                                "valid_options": []
                            }
                        ],
                        "rel": "Update cartridge configuration",
                        "required_params": []
                    },
 ........
                "name": "php-5.4",
                "properties": [
                    {
                        "name": "OPENSHIFT_TMP_DIR",
                        "type": "environment",
                        "description": "Directory to store application
temporary files."
                    },
........
                ],
                "scales_from": 1,
                "scales_to": -1,
                "scales_with": "haproxy-1.4",
                "status_messages": null,
                "supported_scales_from": 1,
                "supported_scales_to": -1,
                "tags": [
                    "service",
                    "php",
                    "web_framework"
                ],
                "type": "standalone",
                "url": null,
                "usage_rates": [],
                "version": "5.4",
                "website": "http://www.php.net"
```

```
            },
            {
                "additional_gear_storage": 0,
                "base_gear_storage": 1,
                "collocated_with": [
                    "php-5.4"
                ],
                "current_scale": 1,
                "description": "Acts as a load balancer for your web
cartridge and will automatically scale up to handle incoming traffic. Is
automatically added to scaled applications when they are created and cannot
be removed or added to an application after the fact.",
                "display_name": "OpenShift Web Balancer",
                "gear_profile": "medium",
                "help_topics": {},
                "license": "GPLv2+",
                "license_url": "http://www.gnu.org/licenses/gpl-2.0.html",
                "links": {
                    "GET": {
                        "href":
"https://openshift.redhat.com/broker/rest/applications/5213190e2587c8817a000
121/cartridge/haproxy-1.4",
                        "method": "GET",
                        "optional_params": [],
                        "rel": "Get cartridge",
                        "required_params": []
                    },
.........
                "name": "mysql-5.5",
                "properties": [
                    {
                        "name": "username",
                        "type": "cart_data",
                        "description": "Root user on mysql database",
                        "value": "adminxcYKabL"
                    },
                    {
                        "name": "password",
                        "type": "cart_data",
                        "description": "Password for root user on mysql
database",
                        "value": "IgsS3_wQYF38"
                    },
                    {
                        "name": "database_name",
                        "type": "cart_data",
                        "description": "MySQL DB name",
                        "value": "myapp"
                    },
                    {
                        "name": "connection_url",
                        "type": "cart_data",
                        "description": "MySQL DB connection URL",
                        "value":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
                    }
```

```
                ],
                "scales_from": 1,
                "scales_to": 1,
                "scales_with": "haproxy-1.4",
                "status_messages": null,
                "supported_scales_from": 1,
                "supported_scales_to": 1,
                "tags": [
                    "service",
                    "database",
                    "embedded"
                ],
                "type": "embedded",
                "url": null,
                "usage_rates": [],
                "version": "5.5",
                "website": "http://www.mysql.com"
            }
        ],
........
        "members": [
            {
                "explicit_role": null,
                "from": [
                    {
                        "type": "domain",
                        "role": "admin"
                    }
                ],
                "id": "520bd6bbdbd93c3dee00000d",
                "name": "user@example.com",
                "owner": true,
                "role": "admin",
                "type": "user"
            }
        ],
        "name": "myapp",
        "scalable": true,
        "ssh_url": "ssh://5213190e2587c8817a000121@myapp-
mydomain.rhcloud.com"
    },
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Application 'myapp' found"
        }
    ],
    "status": "ok",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
```

```
      1.5,
      1.6
    ],
    "type": "application",
    "version": "1.6"
}
```

11.9. Update an Application

Description

Update an application.

Method and URL Structure

Method	Resource URL
PUT	**/broker/rest/application/*:id***

Request Parameters

Name	Description	Required	Default Value
auto_deploy	Indicates whether an application should build and deploy automatically whenever **git push** is executed	No	
deployment_type	Indicates whether an application is configured for binary or Git based deployments	No	
deployment_branch	If automatic deployment is enabled, this indicates from which branch automatic deployment occurs	No	
keep_deployments	Indicates how many total deployments are preserved; must be greater than zero	No	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "auto_deploy": true,
  "deployment_type": "git"
}
```

cURL Command Example

```
$ curl -X PUT
https://openshift.redhat.com/broker/rest/application/527ade9d7f9c48d37100000
a --user user@myemail.com:password --data-urlencode auto_deploy=true --data-
urlencode deployment_type=git
```

JSON Response

The API returns the deployment resource. See Chapter 11, *Applications* for more information on all deployment parameters.


```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapplication-mydomain.rhcloud.com/",
    "auto_deploy": true,
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-11-07T00:28:13Z",
    "deployment_branch": "master",
    "deployment_type": "git",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://527ade9d7f9c48d37100000a@myapplication-
mydomain.rhcloud.com/~/git/myapplication.git/",
    "health_check_path": "health",
    "id": "527ade9d7f9c48d37100000a",
    "initial_git_url": null,
    "keep_deployments": 1,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "527ade897f9c48d371000001",
        "login": "user@myemail.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapplication",
    "scalable": true,
    "ssh_url": "ssh://527ade9d7f9c48d37100000a@myapplication-
mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
```

```
      "index": null,
      "severity": "info",
      "text": "Application myapplication was updated."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```

11.10. Enable High Availability (HA) on Application

Description

Enable high availability (HA) feature on an application.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "make-ha"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/527ade9d7f9c48d37100000
a/events --user user@example.com:password --data-urlencode event=make-ha
```

11.11. Disable High Availability (HA) on Application

Description

Disable high availability (HA) feature on an application.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "disable-ha"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/527ade9d7f9c48d37100000
a/events --user user@example.com:password --data-urlencode event=disable-ha
```

11.12. Start Application

Description

Start an application that is not running.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "start"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com:password --data-urlencode event=start
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
```

```
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp has started"
    },
    {
      "exit_code": 0,
      "field": null,
      "severity": "warning",
      "text": "HAProxy instance is started\n"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


11.13. Stop Application

Description

Stop a running application.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "stop"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com --data-urlencode event=stop
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
```

```
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp has stopped"
    },
    {
      "exit_code": 0,
      "field": null,
      "severity": "warning",
      "text": "HAProxy instance is stopped\n"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


11.14. Force Stop Application

Description

Force a running application to stop.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "force-stop"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com:password --data-urlencode event=force-stop
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity.See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
```

```
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp has forcefully stopped"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```

11.15. Restart Application

Description

Restart a running application.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "restart"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com:password --data-urlencode event=restart
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.


```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
```

```
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp has restarted"
    },
    {
      "exit_code": 0,
      "field": null,
      "severity": "warning",
      "text": "Restarted HAProxy instance\n"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```

11.16. Scale Up Application

Description

Scale up an application that was created with the scaling function enabled.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "scale-up"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com --data-urlencode event=scale-up
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.


```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 2,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
```

```
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp has scaled up"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```

The API returns an error message if a user has reached the maximum number of gears allowed for their account, as shown in the sample response output below.

```
{
    "status": "unprocessable_entity",
    "messages": [
        {
            "field": null,
            "text": "user@example.com has already reached the gear limit of
3",
            "severity": "error",
            "exit_code": 104
        }
    ]
}
```

11.17. Scale Down Application

Description

Scale down an application that was created with the scaling function enabled.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "scale-down"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com --data-urlencode event=scale-down
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
```

```
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp has scaled down"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```

The API returns an error message if an application cannot be scaled down any further, as shown in the sample response output below.

```
{
    "status": "unprocessable_entity",
    "messages": [
        {
            "field": null,
            "text": "Failed to add event scale-down to application myapp due
to: Cannot scale below minimum gear requirements for group '1'",
            "severity": "error",
            "exit_code": 1
        }
    ]
}
```

11.18. Tidy Application Framework

Description

Tidy the application framework.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "tidy"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com --data-urlencode event=tidy
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
```

```
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp called tidy"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


11.19. Reload Application

Description

Reload an application.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "reload"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com --data-urlencode event=reload
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
```

```
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application myapp called reload"
    },
    {
      "exit_code": 0,
      "field": null,
      "severity": "warning",
      "text": "Reloaded HAProxy instance\n"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


11.20. Trigger Thread Dump

Description

Trigger application thread dump.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.6, “Applications” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "thread-dump"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/events --user user@example.com --data-urlencode event=thread-dump
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
```

```
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": ""
    },
    {
      "exit_code": 0,
      "field": null,
      "severity": "result",
      "text": "Success\nThe thread dump file will be available via: rhc tail
myapp -f /var/lib/openshift/534253991015616165707776/ruby//logs//error_log-
20130821-* -o '-n 250'\n"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


11.21. Delete Application

Description

Delete an OpenShift application.

Method and URL Structure

Method	Resource URL
DELETE	**/broker/rest/application/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/application/53425399101561616570777
6 -user user@example.com
```

JSON Response

```
{
  "api_version": 1.6,
  "data": null,
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Application 5342539910156161657077 6 is deleted."
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": null,
  "version": "1.6"
}
```

Chapter 12. Application Aliases and SSL Certificates

This chapter provides information on API resources that allow a client to manage application aliases and SSL certificates for OpenShift applications.

The following table describes each parameter associated with an OpenShift application with aliases and SSL certificates added.

Name	Description
id	Name of application alias.
certificate_added_at	The date and time when the SSL certificate was added.
has_private_ssl_certificate	Indicates whether an SSL certificate has been added to the specified application.

12.1. Add Application Alias

Description

Add an alias to an application, with the option to upload an SSL certificate. Adding an alias allows you to use your own domain name for an application.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/aliases**

Request Parameters

Name	Description	Required	Default
id	Alias for application	Yes	
ssl_certificate	Content of SSL certificate	No	
private_key	Required private key for SSL certificate	No	
pass_phrase	Optional passphrase for private key	No	

Request

```
{
  "id": "myappalias",
  "ssl_certificate": "-----BEGIN CERTIFICATE-----
\nMIIDoDCCAogCCQDzF8AJCHnrbjANBgkqhkiG9w0BAQUFADCBkTELMAkGA1UEBhMC\nVVMxCzAJ
BgNVBAgMAkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJl\nZGhhdDESMBAGA1UECw
wJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAm\nBgkqhkiG9w0BCQEWGWluZm9Ab3Bl
bnNoaWZ0LnJlZGhhdC5jb20wHhcNMTMwMjE5\nMjExMTQ4WhcNMTQwMjE5MjExMTQ4WjCBkTELMA
kGA1UEBhMCVVMxCzAJBgNVBAgM\nAkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJl
ZGhhdDESMBAGA1UE\nCwwJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAmBgkqhkiG9w
0BCQEW\nGWluZm9Ab3BlbnNoaWZ0LnJlZGhhdC5jb20wggEiMA0GCSqGSIb3DQEBAQUAA4IB\nDw
AwggEKAoIBAQDAEbH4MCi3iIDP1HS+/Xwu8SjdSc5WJX6htV7hJpmFZ8HohV/8\nba0v6aM9IJII
t+sIe2J62t/9G3leOdIHBxeACN4fV2l/iA/fvxvlnFKeD7sHm9Oc\nYj1H6YYJ57sIOf/oLDpJl6
l3Rw8VC3+3W0/lzlVpA8qt7fpkiW7XQJCPplUSrdVC\n3okQ2T5NAod5+wVIOqELgE5bLX1LRs5V
PsjytHkJ7rKXs55FHR3kpsoImn5xD0Ky\n6lRn8cIMolQoyN5HIGr8f5P+07hrHibve8jje/DKTs
sb5yEUAEmh6iGHQsRAnsUW\nQoIEUOLqQCu9re2No4G52Kl2xQIjyJF7rCfxAgMBAAEwDQYJKoZI
hvcNAQEFBQAD\nggEBAGHrya/ZkiAje2kHsOajXMlO2+y1iLfUDcRLuEWpUa8sI5EM4YtemQrsup
```

```
Fp\n8lVYG5C4Vh8476oF9t8Wex5eH3ocwbSvPIUqE07hdmrubiMq4wxFVRYq7g9lHAnx\nl+bABu
N/orbAcPcGAGg7AkXVoAc3Fza/ZcgMcw7NOtDTEss70V9OdgCfQUJL0KdO\nhCO8bQ1EaEiq6zEh
8RpZe8mu+f/GYATX1I+eJUc6F6cn83oJjE9bqAVzk7TzTHeK\nEBKN50C14wWtXeG7n2+ugaVO+0
xnvHeUrQBLHSRyOHqxXrQQ5XmzcaBiyI0f2IQM\nHst1BVXyX0n/L/ZoYYsv5juJmDo=\n-----
END CERTIFICATE-----",
  "private_key": "-----BEGIN RSA PRIVATE KEY-----
\nMIIEogIBAAKCAQEAwBGx+DAot4iAz9R0vv18LvEo3UnOViV+obVe4SaZhWfB6IVf\n/G2tL+mj
PSCSCLfrCHtietrf/Rt5XjnSBwcXgAjeH1dpf4gP378b5ZxSng+7B5vT\nnGI9R+mGCee7CDn/6C
w6SZepd0cPFQt/t1tP5c5VaQPKre36ZIlu10CQj6ZVEq3V\nQt6JENk+TQKHefsFSDqhC4BOWy19
S0bOVT7I8rR5Ce6yl7OeRR0d5KbKCJp+cQ9C\nsupUZ/HCDKJUKMjeRyBq/H+T/tO4ax4m73vI43
vwyk7LG+chFABJoeohh0LEQJ7F\nFkKCBFDi6kArva3tjaOBudipdsUCI8iRe6wn8QIDAQABAoIB
AG/on4JVRRQSw8LU\nLiWt+jI7ryyoOUH2XL8JtzuGSwLwvomlVJT2rmbxQXx3Qr8zsgziHzIn30
RRQrkF\nBXu0xRuDjzBBtSVqeJ1Mc4uoNncEAVxgjb5bewswZDnXPCGB8bosMtX4OPRXgdEo\nPw
TtfjMOsrMaU3hd5Xu4m81tQA2BvwOlx8aYDyH0jeTnervc5uRGbeTBQG4Bu40E\nrWNmXvgNq2Ez
TAwbbN6Ma97gw9KgXnM4Nlh29Fxb5TBeUU9lkzuTZAZIDXKIm7AG\nUwMbj/A038yAumYQtThTE/
3e4W3rn7F2Vko900bC4aAC1KQOAzjIeQqzqkVxWTWq\n4SUFQAECgYEA/ODwifOTuI6hdZK6JRgc
4wp6Rc0fkqHuxLzABXoIGuSVlWyimqIN\nZySAkpo5EW6DNraRJxNCOBmWeGPEhHGrea+JPiPEwC
K0F7SxvSmg3jzNzw3Es31T\necET7eDwuSOY9v4XDzLyiXXkEUUReD7Ng2hEYL+HaQrl5jWj4lxg
q/ECgYEAwnCb\nKrz7FwX8AqtFAEi6uUrc12k1xYKQfrwSxbfdK2vBBUpgB71Iq/fqP+1BittElj
DG\n8f4jEtMBFfEPhLzGIHaI3UiHUHXS4GetA77TRgR8lnKKpj1FcMIY2iKU47970705\nQ08pgW
RUDQ8BVg2ePgbo5QjLMc/rv7UF3AHvPAECgYB/auAIwqDGN6gHU/1TP4ke\npWLi1O55tfpXSzv+
BnUbB96PQgPUop7aP7xBIlBrBiI7aVZOOBf/qHT3CF421geu\n8tHWa7NxlIrl/vgn9lfGYyDYmX
lpb1amXLEsBVGGF/e1TGZWFDe9J5fZU9HvosVu\n1xTNIvSZ6xHYI2MGZcGYIQKBgEYeebaV5C7P
V6xWu1F46O19U9rS9DM//H/XryVi\nQv4vo7IWuj7QQe7SPsXC98ntfPR0rqoCLf/R3ChfgGsr8H
8wf/bc+v9HHj8S5E/f\ndy1e3Nccg2ej3PDm7jNsGSlwmmUkAQGHAL7KwYzcBm1UB+bycvZ1j2Ft
S+UckPpg\nMDgBAoGALD8PkxHb4U4DtbNFSYRrUdvS9heav/yph3lTMfifNkOir36io6v8RPgb\n
D2bHKKZgmYlTgJrxD45Er9agC5jclJO35QRU/OfGf3GcnABkBI7vlvUKADAo65Sq\nweZkdJnbrI
adcvLOHOzkKC9m+rxFTC9VoN1dwK2zwYvUXfa1VJA=\n-----END RSA PRIVATE KEY-----",
  "pass_phrase": "abcd"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/53425399101561616570777
6/aliases --user user@example.com --data-urlencode id=myappalias
```

When adding an alias an SSL certificate can also be uploaded to allow secure HTTPS communication with an application. To upload an SSL certificate include the required private key with or without the optional private key passphrase. This can be done by cutting and pasting the contents of the SSL certificate and the key.

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/applications/534253991015616165707776/aliases --user user@example.com --data-urlencode id=myappalias --data-urlencode ssl_certificate=-----BEGIN CERTIFICATE-----
MIIDoDCCAogCCQDzF8AJCHnrbjANBgkqhkiG9w0BAQUFADCBkTELMAkGA1UEBhMC
VVMxCzAJBgNVBAgMAkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJl
ZGhhdDESMBAGA1UECwwJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAm
BgkqhkiG9w0BCQEWGWluZm9Ab3BlbnNoaWZ0LnJlZGhhdC5jb20wHhcNMTMwMjE5
MjExMTQ4WhcNMTQwMjE5MjExMTQ4WjCBkTELMAkGA1UEBhMCVVMxCzAJBgNVBAgM
AkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJlZGhhdDESMBAGA1UE
CwwJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAmBgkqhkiG9w0BCQEW
GWluZm9Ab3BlbnNoaWZ0LnJlZGhhdC5jb20wggEiMA0GCSqGSIb3DQEBAQUAA4IB
DwAwggEKAoIBAQDAEbH4MCi3iIDP1HS+/Xwu8SjdSc5WJX6htV7hJpmFZ8HohV/8
```

```
ba0v6aM9IJIIt+sIe2J62t/9G3leOdIHBxeACN4fV2l/iA/fvxvlnFKeD7sHm9Oc
Yj1H6YYJ57sIOf/oLDpJl6l3Rw8VC3+3W0/lzlVpA8qt7fpkiW7XQJCPplUSrdVC
3okQ2T5NAod5+wVIOqELgE5bLX1LRs5VPsjytHkJ7rKXs55FHR3kpsoImn5xD0Ky
6lRn8cIMolQoyN5HIGr8f5P+07hrHibve8jje/DKTssb5yEUAEmh6iGHQsRAnsUW
QoIEUOLqQCu9re2No4G52Kl2xQIjyJF7rCfxAgMBAAEwDQYJKoZIhvcNAQEFBQAD
ggEBAGHrya/ZkiAje2kHsOajXMlO2+y1iLfUDcRLuEWpUa8sI5EM4YtemQrsupFp
8lVYG5C4Vh8476oF9t8Wex5eH3ocwbSvPIUqE07hdmrubiMq4wxFVRYq7g9lHAnx
l+bABuN/orbAcPcGAGg7AkXVoAc3Fza/ZcgMcw7NOtDTEss70V9OdgCfQUJL0KdO
hCO8bQ1EaEiq6zEh8RpZe8mu+f/GYATX1I+eJUc6F6cn83oJjE9bqAVzk7TzTHeK
EBKN50C14wWtXeG7n2+ugaVO+0xnvHeUrQBLHSRyOHqxXrQQ5XmzcaBiyI0f2IQM
Hst1BVXyX0n/L/ZoYYsv5juJmDo= -----END CERTIFICATE----- --data-urlencode
private_key=-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAwBGx+DAot4iAz9R0vv18LvEo3UnOViV+obVe4SaZhWfB6IVf
/G2tL+mjPSCSCLfrCHtietrf/Rt5XjnSBwcXgAjeH1dpf4gP378b5ZxSng+7B5vT
nGI9R+mGCee7CDn/6Cw6SZepd0cPFQt/t1tP5c5VaQPKre36ZIlu10CQj6ZVEq3V
Qt6JENk+TQKHefsFSDqhC4BOWy19S0bOVT7I8rR5Ce6yl7OeRR0d5KbKCJp+cQ9C
supUZ/HCDKJUKMjeRyBq/H+T/tO4ax4m73vI43vwyk7LG+chFABJoeohh0LEQJ7F
FkKCBFDi6kArva3tjaOBudipdsUCI8iRe6wn8QIDAQABAoIBAG/on4JVRRQSw8LU
LiWt+jI7ryyoOUH2XL8JtzuGSwLwvomlVJT2rmbxQXx3Qr8zsgziHzIn30RRQrkF
BXu0xRuDjzBBtSVqeJ1Mc4uoNncEAVxgjb5bewswZDnXPCGB8bosMtX4OPRXgdEo
PwTtfjMOsrMaU3hd5Xu4m81tQA2BvwOlx8aYDyH0jeTnervc5uRGbeTBQG4Bu40E
rWNmXvgNq2EzTAwbbN6Ma97gw9KgXnM4Nlh29Fxb5TBeUU9lkzuTZAZIDXKIm7AG
UwMbj/A038yAumYQtThTE/3e4W3rn7F2Vko900bC4aAC1KQOAzjIeQqzqkVxWTWq
4SUFQAECgYEA/ODwifOTuI6hdZK6JRgc4wp6Rc0fkqHuxLzABXoIGuSVlWyimqIN
ZySAkpo5EW6DNraRJxNCOBmWeGPEhHGrea+JPiPEwCK0F7SxvSmg3jzNzw3Es31T
ecET7eDwuSOY9v4XDzLyiXXkEUUReD7Ng2hEYL+HaQrl5jWj4lxgq/ECgYEAwnCb
Krz7FwX8AqtFAEi6uUrc12k1xYKQfrwSxbfdK2vBBUpgB71Iq/fqP+1BittEljDG
8f4jEtMBFfEPhLzGIHaI3UiHUHXS4GetA77TRgR8lnKKpj1FcMIY2iKU47970705
Q08pgWRUDQ8BVg2ePgbo5QjLMc/rv7UF3AHvPAECgYB/auAIwqDGN6gHU/1TP4ke
pWLi1O55tfpXSzv+BnUbB96PQgPUop7aP7xBIlBrBiI7aVZOOBf/qHT3CF421geu
8tHWa7NxlIrl/vgn9lfGYyDYmXlpb1amXLEsBVGGF/e1TGZWFDe9J5fZU9HvosVu
1xTNIvSZ6xHYI2MGZcGYIQKBgEYeebaV5C7PV6xWu1F46O19U9rS9DM//H/XryVi
Qv4vo7IWuj7QQe7SPsXC98ntfPR0rqoCLf/R3ChfgGsr8H8wf/bc+v9HHj8S5E/f
dy1e3Nccg2ej3PDm7jNsGSlwmmUkAQGHAL7KwYzcBm1UB+bycvZ1j2FtS+UckPpg
MDgBAoGALD8PkxHb4U4DtbNFSYRrUdvS9heav/yph3lTMfifNkOir36io6v8RPgb
D2bHKKZgmYlTgJrxD45Er9agC5jclJO35QRU/OfGf3GcnABkBI7vlvUKADAo65Sq
weZkdJnbrIadcvLOHOzkKC9m+rxFTC9VoN1dwK2zwYvUXfa1VJA= -----END RSA PRIVATE
KEY----- --data-urlencode pass_phrase=abcd
```

JSON Response

The API returns the aliases resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 12, *Application Aliases and SSL Certificates* for all parameters associated with application aliases.

```
{
  "api_version": 1.6,
  "data": {
    "certificate_added_at": "2013-08-20T00:00:00Z",
    "has_private_ssl_certificate": true,
    "id": "myappalias"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
```

```
      "severity": "info",
      "text": "Added myappalias to application myapp"
    }
  ],
  "status": "created",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "alias",
  "version": "1.6"
}
```

12.2. List Application Aliases

Description

List all aliases and SSL certificates associated with the specified application.

Note

A GET request to an application also returns a list of associated aliases for that particular application . See Section 11.7, “Get Application Information” for more information.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/application/*:id*/aliases**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/aliases --user user@example.com
```

JSON Response

The API returns a list of all aliases and SSL certificates for the specified application. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 12, *Application Aliases and SSL Certificates* for a description of each response parameter associated with application aliases.

```
{
  "api_version": 1.6,
  "data": [

  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Listing aliases for application myapp under domain mydomain"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "alias",
  "version": "1.6"
}
```

12.3. Get Application Alias Information

Description

Get information about the specified application alias.

Note

A GET request to an application also returns a list of associated aliases for that particular application . See Section 11.7, “Get Application Information” for more information.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/application/*:id*/aliases/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/aliases/myappalias --user user@example.com
```

JSON Response

The API returns information about the specified alias. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 12, *Application Aliases and SSL Certificates* for a description of each response parameter associated with application aliases.

```
{
  "api_version": 1.6,
  "data": {
    "certificate_added_at": "2013-08-20T00:00:00Z",
    "has_private_ssl_certificate": true,
    "id": "myappalias"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Showing alias myappalias for application myapp under domain
mydomain"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "alias",
  "version": "1.6"
}
```

12.4. Update Application Alias

Description

Update an existing application alias with a new SSL certificate or remove an existing certificate.

Method and URL Structure

Method	Resource URL
PUT	/broker/rest/application/*:id*/aliases/*:id*

Request Parameters

Name	Description	Required	Default
ssl_certificate	Content of SSL certificate	Yes	
private_key	Required private key for SSL certificate	Yes	
pass_phrase	Optional passphrase for private key	No	

Request


```
{
  "ssl_certificate": "-----BEGIN CERTIFICATE-----
\nMIIDoDCCAogCCQDzF8AJCHnrbjANBgkqhkiG9w0BAQUFADCBkTELMAkGA1UEBhMC\nVVMxCzAJ
BgNVBAgMAkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJl\nZGhhdDESMBAGA1UECw
wJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAm\nBgkqhkiG9w0BCQEWGWluZm9Ab3Bl
bnNoaWZ0LnJlZGhhdC5jb20wHhcNMTMwMjE5\nMjExMTQ4WhcNMTQwMjE5MjExMTQ4WjCBkTELMA
kGA1UEBhMCVVMxCzAJBgNVBAgM\nAkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJl
ZGhhdDESMBAGA1UE\nCwwJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAmBgkqhkiG9w
0BCQEW\nGWluZm9Ab3BlbnNoaWZ0LnJlZGhhdC5jb20wggEiMA0GCSqGSIb3DQEBAQUAA4IB\nDw
AwggEKAoIBAQDAEbH4MCi3iIDP1HS+/Xwu8SjdSc5WJX6htV7hJpmFZ8HohV/8\nba0v6aM9IJII
t+sIe2J62t/9G3leOdIHBxeACN4fV2l/iA/fvxvlnFKeD7sHm9Oc\nYj1H6YYJ57sIOf/oLDpJl6
l3Rw8VC3+3W0/lzlVpA8qt7fpkiW7XQJCPplUSrdVC\n3okQ2T5NAod5+wVIOqELgE5bLX1LRs5V
PsjytHkJ7rKXs55FHR3kpsoImn5xD0Ky\n6lRn8cIMolQoyN5HIGr8f5P+07hrHibve8jje/DKTs
sb5yEUAEmh6iGHQsRAnsUW\nQoIEUOLqQCu9re2No4G52Kl2xQIjyJF7rCfxAgMBAAEwDQYJKoZI
hvcNAQEFBQAD\nggEBAGHrya/ZkiAje2kHsOajXMlO2+y1iLfUDcRLuEWpUa8sI5EM4YtemQrsup
Fp\n8lVYG5C4Vh8476oF9t8Wex5eH3ocwbSvPIUqE07hdmrubiMq4wxFVRYq7g9lHAnx\nl+bABu
N/orbAcPcGAGg7AkXVoAc3Fza/ZcgMcw7NOtDTEss70V9OdgCfQUJL0KdO\nhCO8bQ1EaEiq6zEh
8RpZe8mu+f/GYATX1I+eJUc6F6cn83oJjE9bqAVzk7TzTHeK\nEBKN50C14wWtXeG7n2+ugaVO+0
xnvHeUrQBLHSRyOHqxXrQQ5XmzcaBiyI0f2IQM\nHst1BVXyX0n/L/ZoYYsv5juJmDo=\n-----
END CERTIFICATE-----",
  "private_key": "-----BEGIN RSA PRIVATE KEY-----
\nMIIEogIBAAKCAQEAwBGx+DAot4iAz9R0vv18LvEo3UnOViV+obVe4SaZhWfB6IVf\n/G2tL+mj
PSCSCLfrCHtietrf/Rt5XjnSBwcXgAjeH1dpf4gP378b5ZxSng+7B5vT\nnGI9R+mGCee7CDn/6C
w6SZepd0cPFQt/t1tP5c5VaQPKre36ZIlu10CQj6ZVEq3V\nQt6JENk+TQKHefsFSDqhC4BOWy19
S0bOVT7I8rR5Ce6yl7OeRR0d5KbKCJp+cQ9C\nsupUZ/HCDKJUKMjeRyBq/H+T/tO4ax4m73vI43
vwyk7LG+chFABJoeohh0LEQJ7F\nFkKCBFDi6kArva3tjaOBudipdsUCI8iRe6wn8QIDAQABAoIB
AG/on4JVRRQSw8LU\nLiWt+jI7ryyoOUH2XL8JtzuGSwLwvomlVJT2rmbxQXx3Qr8zsgziHzIn30
RRQrkF\nBXu0xRuDjzBBtSVqeJ1Mc4uoNncEAVxgjb5bewswZDnXPCGB8bosMtX4OPRXgdEo\nPw
TtfjMOsrMaU3hd5Xu4m81tQA2BvwOlx8aYDyH0jeTnervc5uRGbeTBQG4Bu40E\nrWNmXvgNq2Ez
TAwbbN6Ma97gw9KgXnM4Nlh29Fxb5TBeUU9lkzuTZAZIDXKIm7AG\nUwMbj/A038yAumYQtThTE/
3e4W3rn7F2Vko900bC4aAC1KQOAzjIeQqzqkVxWTWq\n4SUFQAECgYEA/ODwifOTuI6hdZK6JRgc
4wp6Rc0fkqHuxLzABXoIGuSVlWyimqIN\nZySAkpo5EW6DNraRJxNCOBmWeGPEhHGrea+JPiPEwC
K0F7SxvSmg3jzNzw3Es31T\necET7eDwuSOY9v4XDzLyiXXkEUUReD7Ng2hEYL+HaQrl5jWj4lxg
q/ECgYEAwnCb\nKrz7FwX8AqtFAEi6uUrc12k1xYKQfrwSxbfdK2vBBUpgB71Iq/fqP+1BittElj
DG\n8f4jEtMBFfEPhLzGIHaI3UiHUHXS4GetA77TRgR8lnKKpj1FcMIY2iKU47970705\nQ08pgW
RUDQ8BVg2ePgbo5QjLMc/rv7UF3AHvPAECgYB/auAIwqDGN6gHU/1TP4ke\npWLi1O55tfpXSzv+
BnUbB96PQgPUop7aP7xBIlBrBiI7aVZOOBf/qHT3CF421geu\n8tHWa7NxlIrl/vgn9lfGYyDYmX
lpb1amXLEsBVGGF/e1TGZWFDe9J5fZU9HvosVu\n1xTNIvSZ6xHYI2MGZcGYIQKBgEYeebaV5C7P
V6xWu1F46O19U9rS9DM//H/XryVi\nQv4vo7IWuj7QQe7SPsXC98ntfPR0rqoCLf/R3ChfgGsr8H
8wf/bc+v9HHj8S5E/f\ndy1e3Nccg2ej3PDm7jNsGSlwmmUkAQGHAL7KwYzcBm1UB+bycvZ1j2Ft
S+UckPpg\nMDgBAoGALD8PkxHb4U4DtbNFSYRrUdvS9heav/yph3lTMfifNkOir36io6v8RPgb\n
D2bHKKZgmYlTgJrxD45Er9agC5jclJO35QRU/OfGf3GcnABkBI7vlvUKADAo65Sq\nweZkdJnbrI
adcvLOHOzkKC9m+rxFTC9VoN1dwK2zwYvUXfa1VJA=\n-----END RSA PRIVATE KEY-----",
  "pass_phrase": "abcd"
}
```


cURL Command Example

When updating an application alias to upload a new SSL certificate, include the contents of the SSL certificate and the associated private key with or without the optional private key passphrase.

```
$ curl -X PUT
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/aliases/myappalias --user user@example.com --data-urlencode
ssl_certificate=-----BEGIN CERTIFICATE-----
MIIDoDCCAogCCQDzF8AJCHnrbjANBgkqhkiG9w0BAQUFADCBkTELMAkGA1UEBhMC
VVMxCzAJBgNVBAgMAkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJl
ZGhhdDESMBAGA1UECwwJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAm
BgkqhkiG9w0BCQEWGWluZm9Ab3BlbnNoaWZ0LnJlZGhhdC5jb20wHhcNMTMwMjE5
MjExMTQ4WhcNMTQwMjE5MjExMTQ4WjCBkTELMAkGA1UEBhMCVVMxCzAJBgNVBAgM
AkNBMRIwEAYDVQQHDAlTdW5ueXZhbGUxDzANBgNVBAoMBnJlZGhhdDESMBAGA1UE
CwwJb3BlbnNoaWZ0MRIwEAYDVQQDDAlvcGVuc2hpZnQxKDAmBgkqhkiG9w0BCQEW
GWluZm9Ab3BlbnNoaWZ0LnJlZGhhdC5jb20wggEiMA0GCSqGSIb3DQEBAQUAA4IB
DwAwggEKAoIBAQDAEbH4MCi3iIDP1HS+/Xwu8SjdSc5WJX6htV7hJpmFZ8HohV/8
ba0v6aM9IJIIt+sIe2J62t/9G3leOdIHBxeACN4fV2l/iA/fvxvlnFKeD7sHm9Oc
Yj1H6YYJ57sIOf/oLDpJl6l3Rw8VC3+3W0/lzlVpA8qt7fpkiW7XQJCPplUSrdVC
3okQ2T5NAod5+wVIOqELgE5bLX1LRs5VPsjytHkJ7rKXs55FHR3kpsoImn5xD0Ky
6lRn8cIMolQoyN5HIGr8f5P+07hrHibve8jje/DKTssb5yEUAEmh6iGHQsRAnsUW
QoIEUOLqQCu9re2No4G52Kl2xQIjyJF7rCfxAgMBAAEwDQYJKoZIhvcNAQEFBQAD
ggEBAGHrya/ZkiAje2kHsOajXMlO2+y1iLfUDcRLuEWpUa8sI5EM4YtemQrsupFp
8lVYG5C4Vh8476oF9t8Wex5eH3ocwbSvPIUqE07hdmrubiMq4wxFVRYq7g9lHAnx
l+bABuN/orbAcPcGAGg7AkXVoAc3Fza/ZcgMcw7NOtDTEss70V9OdgCfQUJL0KdO
hCO8bQ1EaEiq6zEh8RpZe8mu+f/GYATX1I+eJUc6F6cn83oJjE9bqAVzk7TzTHeK
EBKN50C14wWtXeG7n2+ugaVO+0xnvHeUrQBLHSRyOHqxXrQQ5XmzcaBiyI0f2IQM
Hst1BVXyX0n/L/ZoYYsv5juJmDo= -----END CERTIFICATE----- --data-urlencode
private_key=-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAwBGx+DAot4iAz9R0vv18LvEo3UnOViV+obVe4SaZhWfB6IVf
/G2tL+mjPSCSCLfrCHtietrf/Rt5XjnSBwcXgAjeH1dpf4gP378b5ZxSng+7B5vT
nGI9R+mGCee7CDn/6Cw6SZepd0cPFQt/t1tP5c5VaQPKre36ZIlu10CQj6ZVEq3V
Qt6JENk+TQKHefsFSDqhC4BOWy19S0bOVT7I8rR5Ce6yl7OeRR0d5KbKCJp+cQ9C
supUZ/HCDKJUKMjeRyBq/H+T/tO4ax4m73vI43vwyk7LG+chFABJoeohh0LEQJ7F
FkKCBFDi6kArva3tjaOBudipdsUCI8iRe6wn8QIDAQABAoIBAG/on4JVRRQSw8LU
LiWt+jI7ryyoOUH2XL8JtzuGSwLwvomlVJT2rmbxQXx3Qr8zsgziHzIn30RRQrkF
BXu0xRuDjzBBtSVqeJ1Mc4uoNncEAVxgjb5bewswZDnXPCGB8bosMtX4OPRXgdEo
PwTtfjMOsrMaU3hd5Xu4m81tQA2BvwOlx8aYDyH0jeTnervc5uRGbeTBQG4Bu40E
rWNmXvgNq2EzTAwbbN6Ma97gw9KgXnM4Nlh29Fxb5TBeUU9lkzuTZAZIDXKIm7AG
UwMbj/A038yAumYQtThTE/3e4W3rn7F2Vko900bC4aAC1KQOAzjIeQqzqkVxWTWq
4SUFQAECgYEA/ODwifOTuI6hdZK6JRgc4wp6Rc0fkqHuxLzABXoIGuSVlWyimqIN
ZySAkpo5EW6DNraRJxNCOBmWeGPEhHGrea+JPiPEwCK0F7SxvSmg3jzNzw3Es31T
ecET7eDwuSOY9v4XDzLyiXXkEUUReD7Ng2hEYL+HaQrl5jWj4lxgq/ECgYEAwnCb
Krz7FwX8AqtFAEi6uUrc12k1xYKQfrwSxbfdK2vBBUpgB71Iq/fqP+1BittEljDG
8f4jEtMBFfEPhLzGIHaI3UiHUHXS4GetA77TRgR8lnKKpj1FcMIY2iKU47970705
Q08pgWRUDQ8BVg2ePgbo5QjLMc/rv7UF3AHvPAECgYB/auAIwqDGN6gHU/1TP4ke
pWLi1O55tfpXSzv+BnUbB96PQgPUop7aP7xBIlBrBiI7aVZOOBf/qHT3CF421geu
8tHWa7NxlIrl/vgn9lfGYyDYmXlpb1amXLEsBVGGF/e1TGZWFDe9J5fZU9HvosVu
1xTNIvSZ6xHYI2MGZcGYIQKBgEYeebaV5C7PV6xWu1F46O19U9rS9DM//H/XryVi
Qv4vo7IWuj7QQe7SPsXC98ntfPR0rqoCLf/R3ChfgGsr8H8wf/bc+v9HHj8S5E/f
dy1e3Nccg2ej3PDm7jNsGSlwmmUkAQGHAL7KwYzcBm1UB+bycvZ1j2FtS+UckPpg
MDgBAoGALD8PkxHb4U4DtbNFSYRrUdvS9heav/yph3lTMfifNkOir36io6v8RPgb
D2bHKKZgmYlTgJrxD45Er9agC5jclJO35QRU/OfGf3GcnABkBI7vlvUKADAo65Sq
weZkdJnbrIadcvLOHOzkKC9m+rxFTC9VoN1dwK2zwYvUXfa1VJA= -----END RSA PRIVATE
KEY----- --data-urlencode pass_phrase=abcd
```

JSON Response

The API returns the aliases resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 12, *Application Aliases and SSL Certificates* for all parameters associated with application aliases.

```
{
  "api_version": 1.6,
  "data": {
    "certificate_added_at": "2013-08-20T00:00:00Z",
    "has_private_ssl_certificate": true,
    "id": "myappalias"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Updated myappalias to application myapp"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "alias",
  "version": "1.6"
}
```

12.5. Delete Application Alias

Description

Remove an alias from an application.

Method and URL Structure

Method	Resource URL
DELETE	**/broker/rest/application/*:id*/aliases/*:id***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/aliases/myappalias --user user@example.com
```

JSON Response


```
{
  "api_version": 1.6,
  "data": null,
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Removed myappalias from application myapp"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": null,
  "version": "1.6"
}
```

Chapter 13. Cartridges

This chapter provides information on API resources that allow a client to manage OpenShift cartridges. Cartridges are the components of an OpenShift application, and include databases, build systems, and management capabilities. Adding a cartridge to an application provides the desired capability without having administer or update the included feature. There are two types of cartridges available with OpenShift: standalone and embedded.

Standalone Cartridges

Standalone cartridges offer a variety of programming languages and frameworks for developing an application. Every application requires a framework cartridge. Examples include PHP, JBoss, and Ruby.

The following table describes each parameter associated with both standalone and embedded cartridges.

Name	Description
name	Name of the cartridge.
id	Unique ID of the cartridge.
obsolete	Indicates whether the cartridge is marked obsolete. Can be **true** or **false**.
added_time	The date and time when the cartridge was added to an application.
activation_time	The date and time when the cartridge version was marked active. Nil if the cartridge is not active.
automatic_updates	Set to **true** if the cartridge receives updates when a security update is released.
version	Version of the packaged software in the cartridge.
license	License of the packaged software in the cartridge.
license_url	URL of the license file for the packaged software in the cartridge.
website	Website URL for the packaged software in the cartridge.
help_topics	Map of topics and associated URLs that provide help on how to use and configure the cartridge.
display_name	Formatted name of the cartridge for user interfaces.
description	Description of the cartridge for user interfaces.
current_scale	Current number of gears used to run the cartridge.
scales_from	Minimum number of gears that a cartridge can scale to; once reached, **scale_down** requests are rejected. Cannot be less than the **supported_scales_from** value.
scales_to	Maximum number of gears that a cartridge can scale to; once reached, **scale_up** requests are rejected. Cannot be greater than the **supported_scales_to** value.
scales_with	Names of other cartridges that scale with this cartridge and run on the same set of gears; currently only HAProxy-1.4 is available.
supported_scales_from	Minimum number of gears supported by the cartridge; the **scales_from** value cannot be less than this number.
supported_scales_to	Maximum number of gears supported by the cartridge; the **scales_to** value cannot be greater than this number.
tags	Array of tags associated with the cartridge.
usage_rates	Plan usage costs.
status_messages	Status messages returned by the cartridge.

Note

The **scales_from** and **scales_to** parameters can be set separately or set in the same REST API call. If the **scales_from** value is greater than the **scales_to** value, the broker logic automatically interchanges the two values.

Embedded Cartridges

Embedded cartridges provide extended functionality to OpenShift applications. Examples include MySQL, PostgreSQL, and Jenkins Client.

The following table describes each parameter associated with only embedded cartridges.

Name	Description
additional_gear_storage	Set additional filesystem storage in gigabytes for the gear profile that the cartridge is running on.
base_gear_storage	Default basic storage in gigabytes associated with the gear profile that the cartridge is running on.
collocated_with	Array of names of other cartridges that share the same gear(s) with the cartridge.
gear_profile	Size of the gears grouped in this profile that the cartridge is running on; all gears in a group will have the same **gear_profile**.
properties	List of environment variables and property values exposed by the cartridge and usable in application code.

13.1. List Cartridges

Description

Get a list of all available OpenShift cartridges.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/cartridges**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET https://openshift.redhat.com/broker/rest/cartridges --user
user@example.com
```

JSON Response

The API returns the cartridge resource with a list of all available OpenShift cartridges. Information on other available cartridges has been removed for brevity. See Chapter 13, *Cartridges* for more information on all cartridge parameters.

```
{
    "api_version": 1.6,
    "data": [
        {
            "current_scale": 0,
            "description": "The Cron cartridge allows you to run command
line programs at scheduled times. Use this for background jobs and periodic
processing.",
            "display_name": "Cron 1.4",
            "help_topics": {
                "Getting Started Guide":
"https://www.openshift.com/blogs/getting-started-with-cron-jobs-on-
openshift"
            },
            "license": "ASL 2.0",
            "license_url": "http://www.apache.org/licenses/LICENSE-2.0.txt",
            "name": "cron-1.4",
            "scales_from": 1,
            "scales_to": 1,
            "scales_with": "haproxy-1.4",
            "supported_scales_from": 1,
            "supported_scales_to": 1,
            "tags": [
                "embedded"
            ],
            "type": "embedded",
            "usage_rates": [],
            "version": "1.4",
            "website": "http://www.openshift.com/"
        },
        {
            "current_scale": 0,
            "description": "Web based MySQL admin tool. Requires the MySQL
cartridge to be installed first.",
            "display_name": "phpMyAdmin 3.4",
            "help_topics": {},
            "license": "GPLv2",
            "license_url": "",
            "name": "phpmyadmin-3",
            "scales_from": 1,
            "scales_to": 1,
            "scales_with": "haproxy-1.4",
            "supported_scales_from": 1,
            "supported_scales_to": 1,
            "tags": [
                "embedded"
            ],
            "type": "embedded",
            "usage_rates": [],
            "version": "3",
            "website": "http://www.phpmyadmin.net/"
        },
        {
            "current_scale": 0,
            "description": "Node.js is a platform built on Chrome's
JavaScript runtime for easily building fast, scalable network applications.
```

```
Node.js is perfect for data-intensive real-time applications that run across
distributed devices.",
            "display_name": "Node.js 0.10",
            "help_topics": {
                "Developer Center": "https://www.openshift.com/developers"
            },
            "license": "MIT License",
            "license_url":
"https://raw.github.com/joyent/node/v0.6/LICENSE",
            "name": "nodejs-0.6",
            "scales_from": 1,
            "scales_to": -1,
            "scales_with": "haproxy-1.4",
            "supported_scales_from": 1,
            "supported_scales_to": -1,
            "tags": [
                "service",
                "javascript",
                "nodejs",
                "web_framework"
            ],
            "type": "standalone",
            "usage_rates": [],
            "version": "0.6",
            "website": "http://www.nodejs.org/"
        },
    ],
    "status": "ok",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
    ],
    "type": "cartridges",
    "version": "1.6"
}
```


13.2. Embedded Cartridges

Embedded cartridges are added to an OpenShift application to extend functionality. For example, a MySQL cartridge provides database support for an application.

13.2.1. Add Embedded Cartridge

Description

Add an embedded cartridge to an application.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/cartridges**

Request Parameters

Name	Description	Required	Default
name	Name of cartridge; note that valid options may be different from those shown here	Yes	
colocate_with	Component to colocate with	No	
scales_from	Minimum number of gears to run component	No	
scales_to	Maximum number of gears to run component	No	
additional_storage	Additional GB of storage request on gears running this component	No	
gear_size	Cartridge gear size	No	
url	URL to a downloadable cartridge	No	
environment_variables	Add or update application environment variables	No	

See Section A.7, “Cartridges” for more information about the valid options applicable to these request parameters.

Request

```
{
  "name": "mysql-5.5",
  "colocate_with": "ruby-2.0",
  "gear_size": "small"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/cartridges --user "user:Password" --data-urlencode name=mysql-5.5 --data-urlencode colocate_with=ruby-2.0 --data-urlencode gear_size=small
```

JSON Response

The API returns the embedded cartridge resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 13, *Cartridges* for more information on all cartridge parameters.

```
{
  "api_version": 1.6,
  "data": {
    "additional_gear_storage": 0,
    "base_gear_storage": 1,
    "collocated_with": [
      "ruby-2.0",
      "haproxy-1.4"
```

```
    ],
    "current_scale": 1,
    "description": "MySQL is a multi-user, multi-threaded SQL database
server.",
    "display_name": "MySQL Database 5.5",
    "gear_profile": "small",
    "help_topics": {
    },
    "license": "GPL",
    "license_url": "",
    "name": "mysql-5.5",
    "properties": [
      {
        "name": "username",
        "type": "cart_data",
        "description": "Root user on mysql database",
        "value": "adminthGnHLU"
      },
      {
        "name": "password",
        "type": "cart_data",
        "description": "Password for root user on mysql database",
        "value": "dPFjWLrUjfxC"
      },
      {
        "name": "database_name",
        "type": "cart_data",
        "description": "MySQL DB name",
        "value": "myapp"
      },
      {
        "name": "connection_url",
        "type": "cart_data",
        "description": "MySQL DB connection URL",
        "value":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
      }
    ],
    "scales_from": 1,
    "scales_to": 1,
    "scales_with": "haproxy-1.4",
    "status_messages": null,
    "supported_scales_from": 1,
    "supported_scales_to": 1,
    "tags": [
      "service",
      "database",
      "embedded"
    ],
    "type": "embedded",
    "url": null,
    "usage_rates": [

    ],
    "version": "5.5",
    "website": "http://www.mysql.com"
```

```
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Added mysql-5.5 to application myapp"
    },
    {
      "exit_code": 0,
      "field": null,
      "severity": "debug",
      "text": "\n\nmysql-5.5: Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT\n"
    },
```

13.2.2. List Embedded Cartridges

Description

Get a list of embedded cartridges that have been added to an application. For scaled applications, the API also returns the scaling properties of the cartridge.

Note

List of all embedded cartridges can also be retrieved with the **LIST_APPLICATIONS** resource. See Section 11.6, “List Applications and Cartridges” for more information.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/application/*:id*/cartridges**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/cartridges --user user@example.com
```

JSON Response

The API returns a list of all embedded cartridges that have been added to the specified application. Related resource links and other cartridges returned by the API have been removed for brevity. See Chapter 13, *Cartridges* for more information on all cartridge parameters.

```
{
  "api_version": 1.6,
  "data": [
```

```
    {
      "additional_gear_storage": 10,
      "base_gear_storage": 1,
      "collocated_with": [
        "haproxy-1.4"
      ],
      "current_scale": 1,
      "description": "Ruby is a dynamic, reflective, general-purpose object-
oriented programming language. Popular development frameworks include Ruby
on Rails and Sinatra.",
      "display_name": "Ruby 2.0",
      "gear_profile": "small",
      "help_topics": {
      },
      "license": "Ruby BSDL",
      "license_url": "http://www.ruby-lang.org/en/about/license.txt",
      "links": {
        "GET": {
          "href":
"https://openshift.redhat.com/broker/rest/application/527ade9d7f9c48d3710000
0a/cartridge/ruby-2.0",
          "method": "GET",
          "optional_params": [

          ],
          "rel": "Get cartridge",
          "required_params": [

          ]
        },
        "UPDATE": {
          "href":
"https://openshift.redhat.com/broker/rest/application/527ade9d7f9c48d3710000
0a/cartridge/ruby-2.0",
          "method": "PUT",
          "optional_params": [
            {
              "default_value": null,
              "description": "Additional filesystem storage in gigabytes on
each gear having cartridge ruby-2.0",
              "name": "additional_gear_storage",
              "type": "integer",
              "valid_options": [

              ]
            },
            {
              "default_value": null,
              "description": "Minimum number of gears having cartridge ruby-
2.0",
              "name": "scales_from",
              "type": "integer",
              "valid_options": [

              ]
            },
```

```
            {
              "default_value": null,
              "description": "Maximum number of gears having cartridge ruby-
2.0",
              "name": "scales_to",
              "type": "integer",
              "valid_options": [

              ]
            }
          ],
          "rel": "Update cartridge configuration",
          "required_params": [
........
 "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "cartridges",
  "version": "1.6"
}
```

13.2.3. Get Cartridge Information

Description

Get information for the specified cartridge using the cartridge name or unique ID.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/application/*:id*/cartridge/*:name***

Request Parameters

Not applicable

cURL Command Example

Using the name of the cartridge:

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/cartridge/mysql-5.5 --user user@example.com
```

JSON Response

The API returns the embedded cartridge resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 13, *Cartridges* for more information on all cartridge parameters.


```
{
  "api_version": 1.6,
  "data": {
    "additional_gear_storage": 0,
    "base_gear_storage": 1,
    "collocated_with": [
      "ruby-2.0",
      "haproxy-1.4"
    ],
    "current_scale": 1,
    "description": "MySQL is a multi-user, multi-threaded SQL database
server.",
    "display_name": "MySQL Database 5.5",
    "gear_profile": "small",
    "help_topics": {
    },
    "license": "GPL",
    "license_url": "",
    "name": "mysql-5.5",
    "properties": [
      {
        "name": "username",
        "type": "cart_data",
        "description": "Root user on mysql database",
        "value": "adminthGnHLU"
      },
      {
        "name": "password",
        "type": "cart_data",
        "description": "Password for root user on mysql database",
        "value": "dPFjWLrUjfxC"
      },
      {
        "name": "database_name",
        "type": "cart_data",
        "description": "MySQL DB name",
        "value": "myapp"
      },
      {
        "name": "connection_url",
        "type": "cart_data",
        "description": "MySQL DB connection URL",
        "value":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
      }
    ],
    "scales_from": 1,
    "scales_to": 1,
    "scales_with": "haproxy-1.4",
    "status_messages": null,
    "supported_scales_from": 1,
    "supported_scales_to": 1,
```

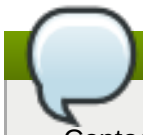
```
    "tags": [
      "service",
      "database",
      "embedded"
    ],
    "type": "embedded",
    "url": null,
    "usage_rates": [

    ],
    "version": "5.5",
    "website": "http://www.mysql.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Showing cartridge mysql-5.5 for application myapp under
domain mydomain"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "cartridge",
  "version": "1.6"
}
```


13.2.4. Update Cartridge Configuration

Description

Update the configuration of an existing cartridge. Minimum and maximum scaling factors and additional filesystem storage in gigabytes on each gear that contains the specified cartridge can be set with this API resource.



Note

Contact your system administrator for more information.

Method and URL Structure

Method	Resource URL
PUT	**/broker/rest/application/*:id*/cartridge/*:name***

Request Parameters

Name	Description	Required	Default
additional_gear_storage	Additional filesystem storage (GB)	No	
scales_from	Minimum number of gears to run component	No	
scales_to	Maximum number of gears to run component	No	

See Section A.7, “Cartridges” for more information about the valid options applicable to these request parameters.

Request

```
{
  "additional_gear_storage": 10
}
```

cURL Command Example

```
$ curl -X PUT
https://openshift.redhat.com/broker/rest/application/5342539910156161657077
6/cartridge/mysql-5.5 --user user@example.com --data-urlencode
additional_gear_storage=10
```

JSON Response

The API returns the embedded cartridge resource with related resource links, and the updated values for the parameters that were changed. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 13, *Cartridges* for more information on all cartridge parameters.

```
{
  "api_version": 1.6,
  "data": {
    "additional_gear_storage": 10,
    "base_gear_storage": 1,
    "collocated_with": [
      "ruby-2.0",
      "haproxy-1.4"
    ],
    "current_scale": 1,
    "description": "MySQL is a multi-user, multi-threaded SQL database
server.",
    "display_name": "MySQL Database 5.5",
    "gear_profile": "small",
    "help_topics": {
    },
    "license": "GPL",
    "license_url": "",
    "name": "mysql-5.5",
    "properties": [
      {
        "name": "username",
```

```
        "type": "cart_data",
        "description": "Root user on mysql database",
        "value": "adminthGnHLU"
      },
      {
        "name": "password",
        "type": "cart_data",
        "description": "Password for root user on mysql database",
        "value": "dPFjWLrUjfxC"
      },
      {
        "name": "database_name",
        "type": "cart_data",
        "description": "MySQL DB name",
        "value": "myapp"
      },
      {
        "name": "connection_url",
        "type": "cart_data",
        "description": "MySQL DB connection URL",
        "value":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
      }
    ],
    "scales_from": 1,
    "scales_to": 1,
    "scales_with": "haproxy-1.4",
    "status_messages": null,
    "supported_scales_from": 1,
    "supported_scales_to": 1,
    "tags": [
      "service",
      "database",
      "embedded"
    ],
    "type": "embedded",
    "url": null,
    "usage_rates": [

    ],
    "version": "5.5",
    "website": "http://www.mysql.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Showing cartridge mysql-5.5 for application myapp under
domain mydomain"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
     1.0,
     1.1,
```

```
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
    ],
    "type": "cartridge",
    "version": "1.6"
}
```

The API returns an error message if the user account does not allow additional gear storage.

```
{
    "api_version": 1.6,
    "data": null,
    "messages": [
        {
            "exit_code": 164,
            "field": null,
            "severity": "error",
            "text": "You are not allowed to request additional gear storage"
        }
    ],
    "status": "unprocessable_entity",
    "supported_api_versions": [
      1.0,
      1.1,
      1.2,
      1.3,
      1.4,
      1.5,
      1.6
    ],
    "type": null,
    "version": "1.6"
}
```

13.2.5. Get Cartridge Status

Description

Retrieve the **`status_messages`** string as an array for the specified cartridge in an application.

Method and URL Structure

Method	Resource URL
`GET`	**`/broker/rest/domain/`*`:name`*`/applications/`*`:name`*`/cartridge/`*`:name`**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/domain/mydomain/applications/myapp/
cartridge/mysql-5.5?include=status_messages --user user@example.com
```

JSON Response

The API returns the **status_messages** string as an array for the specified cartridge in an application. Unnecessary information and related resource links returned by the API have been removed for brevity.

```
"status_messages": [
            {
                "gear_id": "51142f5adbd93ce16a0005c4",
                "message": "MySQL is running\n"
            }
        ],
```

13.2.6. Start Cartridge

Description

Start an application's embedded cartridge that is not running.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/cartridge/*:name*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.7, “Cartridges” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "start"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/cartridge/mysql-5.5/events --user user@example.com --data-urlencode
event=start
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application

parameters.


```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      },
      "mysql-5.5": {
        "connection_url":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/",
        "username": "adminthGnHLU",
        "password": "dPFjWLrUjfxC",
        "database_name": "myapp",
        "info": "Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
```

```
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Added start on mysql-5.5 for application myapp"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```

13.2.7. Stop Cartridge

Description

Stop an application's embedded cartridge that is running.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/cartridge/*:name*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.7, “Cartridges” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "stop"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/cartridge/mysql-5.5/events --user user@example.com --data-urlencode
event=stop
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.


```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      },
      "mysql-5.5": {
        "connection_url":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/",
        "username": "adminthGnHLU",
        "password": "dPFjWLrUjfxC",
        "database_name": "myapp",
        "info": "Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
```

```
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Added stop on mysql-5.5 for application myapp"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


13.2.8. Restart Cartridge

Description

Restart a running embedded cartridge.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/cartridge/*:name*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.7, “Cartridges” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "restart"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/cartridge/mysql-5.5/events --user user@example.com --data-urlencode
event=restart
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.


```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      },
      "mysql-5.5": {
        "connection_url":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/",
        "username": "adminthGnHLU",
        "password": "dPFjWLrUjfxC",
        "database_name": "myapp",
        "info": "Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
```

```
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Added restart on mysql-5.5 for application myapp"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


13.2.9. Reload Cartridge

Description

Reload the embedded cartridge configuration if it has been modified.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/cartridge/*:name*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	

See Section A.7, “Cartridges” for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "reload"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/cartridge/mysql-5.5/events --user user@example.com --data-urlencode
event=reload
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
  "api_version": 1.6,
  "data": {
    "aliases": [

    ],
    "app_url": "http://myapp-mydomain.rhcloud.com/",
    "build_job_url": null,
    "building_app": null,
    "building_with": null,
    "creation_time": "2013-08-21T01:58:41Z",
    "domain_id": "mydomain",
    "embedded": {
      "haproxy-1.4": {
      },
      "mysql-5.5": {
        "connection_url":
"mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/",
        "username": "adminthGnHLU",
        "password": "dPFjWLrUjfxC",
        "database_name": "myapp",
        "info": "Connection URL:
mysql://$OPENSHIFT_MYSQL_DB_HOST:$OPENSHIFT_MYSQL_DB_PORT/"
      }
    },
    "framework": "ruby-2.0",
    "gear_count": 1,
    "gear_profile": "small",
    "git_url": "ssh://534253991015616165707776@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
    "health_check_path": "health",
    "id": "534253991015616165707776",
    "initial_git_url": null,
    "members": [
      {
        "explicit_role": null,
        "from": [
          {
```

```
            "type": "domain",
            "role": "admin"
          }
        ],
        "id": "5213a826e499b22f15000001",
        "name": "user@example.com",
        "owner": true,
        "role": "admin",
        "type": "user"
      }
    ],
    "name": "myapp",
    "scalable": true,
    "ssh_url": "ssh://534253991015616165707776@myapp-mydomain.rhcloud.com"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Added reload on mysql-5.5 for application myapp"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "application",
  "version": "1.6"
}
```


13.2.10. Delete Cartridge

Description

Delete an embedded cartridge from an application.

Method and URL Structure

Method	Resource URL
DELETE	**/broker/rest/application/*:id*/cartridge/*:name***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/application/5342539910156161657077
6/cartridge/mysql-5.5 --user user@example.com
```

JSON Response


```
{
  "api_version": 1.6,
  "data": null,
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Removed mysql-5.5 from application myapp"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": null,
  "version": "1.6"
}
```

Chapter 14. Deployment

The deployment API resource contains information about each application deployment.

The following table describes each parameter associated with an application deployment.

Name	Description
id	Application deployment ID
created_at	Creation time of application
hot_deploy	Indicates whether the hot deployment was enabled for this deployment
force_clean_build	Indicates whether a clean build was performed for this deployment
ref	Git reference such as tag, branch, or commit ID
artifact_url	A binary deployment artifact
activations	An array of activations

14.1. List Application Deployments

Description

Get a list of deployments for the specified application.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/application/*:id*/deployments**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/5255b678b78bba421d00000
8/deployments --user user@example.com:password
```

JSON Response

The API returns a list of deployments for the specified application. See Chapter 14, *Deployment* for more information on all application deployment parameters.


```
{
  "api_version": 1.6,
  "data": [
    {
      "activations": [
        "2013-10-09T20:07:35Z"
      ],
      "created_at": "2013-10-09T20:07:23Z",
      "force_clean_build": false,
      "hot_deploy": false,
      "id": "4e2d9a82",
```

```
      "ref": "master",
      "sha1": "86a5e8d"
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Listing deployments for application myapp under domain
mydomain"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "deployments",
  "version": "1.6"
}
```


14.2. Deploy an Application

Description

Deploy the specified application.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/deployments**

Request Parameters

Name	Description	Required	Default
ref	Git reference, such as tag, branch, or commit ID	No	**master**
artifact_url	URL from where the deployment artifact is to be downloaded	No	
hot_deploy	Indicates whether this is a hot deployment	No	**false**
force_clean_build	Indicates whether a clean build is to be performed	No	**false**

See Section A.8, “Deployments” for more information about the valid options applicable to these request parameters.

Request

```
{
  "ref": "master",
  "hot_deploy": false,
  "force_clean_build": false
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/5255b678b78bba421d00000
8/deployments --user user@example.com:password --data-urlencode ref=master -
-data-urlencode hot_deploy=false --data-urlencode force_clean_build=false
```

JSON Response

The API returns the deployment resource. See Chapter 14, *Deployment* for more information on all deployment parameters.

```
{
  "api_version": 1.6,
  "data": {
    "activations": [
      "2013-10-09T20:07:16Z"
    ],
    "created_at": "2013-10-09T20:07:03Z",
    "force_clean_build": false,
    "hot_deploy": false,
    "id": "4e2d9a82",
    "ref": "master",
    "sha1": "86a5e8d"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Added 4e2d9a82 to application myapp"
    }
  ],
  "status": "created",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "deployment",
  "version": "1.6"
}
```

14.3. Activate a Deployment of an Application

Description

Activate a particular deployment for the specified application.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/events**

Request Parameters

Name	Description	Required	Default
event	Event	Yes	
deployment_id	Deployment ID to activate the application	Yes	

See Section A.8, "Deployments" for more information about the valid options applicable to these request parameters.

Request

```
{
  "event": "activate",
  "deployment_id": "f36f59c0"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/528424f6dbd93c204d00000
1/events --user user@example.com:password --data-urlencode event=activate --
data-urlencode deployment_id=56e71f70
```

JSON Response

The API returns the application resource. Unnecessary information and related resource links returned by the API have been removed for brevity. See Chapter 11, *Applications* for more information on all application parameters.

```
{
    "api_version": 1.6,
    "data": {
        "aliases": [],
        "app_url": "http://myapp-mydomain.rhcloud.com/",
        "auto_deploy": true,
        "build_job_url": null,
        "building_app": null,
        "building_with": null,
        "creation_time": "2013-11-14T01:18:46Z",
        "deployment_branch": "master",
        "deployment_type": "git",
```

```
        "domain_id": "mydomain",
        "embedded": {},
        "framework": "php-5.4",
        "gear_count": 1,
        "gear_profile": "small",
        "git_url": "ssh://528424f6dbd93c204d000001@myapp-
mydomain.rhcloud.com/~/git/myapp.git/",
        "health_check_path": "health_check.php",
        "id": "528424f6dbd93c204d000001",
        "initial_git_url": null,
        "keep_deployments": 10,
        "links": {
            "GET": {
                "href":
"https://openshift.redhat.com/broker/rest/application/528424f6dbd93c204d0000
01",
                "method": "GET",
                "optional_params": [],
                "rel": "Get application",
                "required_params": []
            },

        },
        "members": [
            {
                "explicit_role": null,
                "from": [
                    {
                        "type": "domain",
                        "role": "admin"
                    }
                ],
                "id": "520bd6bbdbd93c3dee00000d",
                "login": "user@example.com",
                "owner": true,
                "role": "admin",
                "type": "user"
            },

        ],
        "name": "myapp",
        "scalable": false,
        "ssh_url": "ssh://528424f6dbd93c204d000001@myapp-
mydomain.rhcloud.com"
    },
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "index": null,
            "severity": "info",
            "text": "Deployment ID 56e71f70 on application myapp has been
activated"
        }
    ],
    "status": "ok",
```

```
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
    ],
    "type": "application",
    "version": "1.6"
}
```


14.4. Update an Application Deployment

Description

Update a deployment of an application. Note that special permissions are required to update deployments.

Method and URL Structure

Method	Resource URL
POST	**/broker/rest/application/*:id*/deployments**

Request Parameters

Name	Description	Required	Default
deployments	An array of deployments	Yes	

See Section A.8, “Deployments” for more information about the valid options applicable to these request parameters.

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/5255b678b78bba421d00000
8/deployments --user user@example.com:password
```

JSON Response

The API returns the deployment resource. See Chapter 14, *Deployment* for more information on all deployment parameters.


```
{
  "api_version": 1.6,
  "data": {
    "activations": [
      "2014-03-27T07:50:10Z"
    ],
    "created_at": "2014-03-27T07:50:03Z",
    "force_clean_build": false,
    "hot_deploy": false,
    "id": "1823e2dc",
```

```
    "ref": "master",
    "sha1": "bcf49c4"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Added 1823e2dc to application myapp"
    }
  ],
  "status": "created",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "deployment",
  "version": "1.6"
}
```

Chapter 15. Environment Variables

This chapter provides information on API resources that allow a client to add and manage user defined application environment variables. The environment variables can be set when an application is created, when a cartridge is added to an application, or they can be added to an existing application. User defined environment variables are persistent and replicated through all application gears, including new gears added in scaling events.

The following table describes each parameter associated with OpenShift environment variables.

Name	Description
name	Name of the environment variable
value	Value of the environment variable

15.1. Add Environment Variable

Description

Add an environment variable to the specified application.

Method and URL Structure

Method	URL Structure
POST	**/broker/rest/application/*:id*/environment-variables**

Request Parameters

Name	Description	Required	Default
name	Name of environment variable	No	
value	Value of environment variable	No	

Request

```
{
  "name": "MY_ENV_VAR",
  "value": "myvalue"
}
```

cURL Command Example

```
$ curl -X POST
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/environment-variables --user user@example.com:password --data-urlencode
name=MY_ENV_VAR --data-urlencode value=myvalue
```

JSON Response

The API returns the environment variables resource with related resource links which have been left out for brevity. See Chapter 15, *Environment Variables* for more information on all parameters for environment variables.

```
{
  "api_version": 1.6,
  "data": {
    "name": "MY_ENV_VAR",
    "value": "myvalue"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Added environment variable 'MY_ENV_VAR' to application myapp"
    }
  ],
  "status": "created",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "environment-variable",
  "version": "1.6"
}
```

Environment variables can also be added when an application is created, or when a cartridge is added to an application.

See Section 11.2, “Create an Application” for more information on adding environment variables when creating an application.

See Section 13.2.1, “Add Embedded Cartridge” for more information on adding environment variables when adding a cartridge to an application.

15.2. List Environment Variables

Description

Get a list of all environment variables associated with the specified application.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/application/*:id*/environment-variables**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
```

```
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/environment-variables --user user@example.com
```

JSON Response

The API returns the environment variables resource with a list of all available environment variables for the specified application. Unnecessary information and other resource links have been removed for brevity. See Chapter 15, *Environment Variables* for more information on all parameters for environment variables.

```
{
  "api_version": 1.6,
  "data": {
    "name": "MY_ENV_VAR",
    "value": "myvalue"
  },
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "severity": "info",
      "text": "Showing environment variable 'MY_ENV_VAR' for application
myapp"
    }
  ],
  "status": "ok",
    "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6
  ],
  "type": "environment-variable",
  "version": "1.6"
}
```

15.3. Get Environment Variable Information

Description

Get information about the specified environment variable.

Method and URL Structure

Method	Resource URL
GET	**/broker/rest/application/*:id*/environment-variable/*ENV_VAR_NAME***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/environment-variable/MY_ENV_VAR --user user@example.com
```

JSON Response

The API returns information about the specified environment variable. Unnecessary information and other resource links have been removed for brevity. See Chapter 15, *Environment Variables* for more information on all parameters for environment variables.

```
{
    "api_version": 1.6,
    "data": {
        "name": "MY_ENV_VAR",
        "value": "myvalue"
    },
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Showing environment variable 'MY_ENV_VAR' for
application myapp"
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
   ],
   "type": "environment-variable",
   "version": "1.6"
}
```

15.4. Update Environment Variable

Description

Update the value of an existing environment variable.

Method and URL Structure

Method	URL Structure
PUT	**/broker/rest/application/*:id*/environment-variable/*ENV_VAR_NAME***

Request Parameters

Name	Description	Required	Default
value	Value of environment variable	Yes	

Request

```
{
  "value": "mynewvalue"
}
```

cURL Command Example

```
$ curl -X PUT
https://openshift.redhat.com/broker/rest/application/534253991015616165707776/environment-variable/MY_ENV_VAR --user user@example.com --data-urlencode value=mynewvalue
```

JSON Response

The API returns the environment variables resource with related resource links which have been left out for brevity. See Chapter 15, *Environment Variables* for more information on all parameters for environment variables.

```
{
    "api_version": 1.6,
    "data": {
        "name": "MY_ENV_VAR",
        "value": "mynewvalue"
    },
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Updated environment variable 'MY_ENV_VAR' in
application myapp"
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
   ],
   "type": "environment-variable",
   "version": "1.6"
}
```

15.5. Delete Environment Variable

Description

Delete an existing environment variable.

Method and URL Structure

Method	Resource URL
DELETE	**/broker/rest/application/*:id*/environment-variable/*ENV_VAR_NAME***

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X DELETE
https://openshift.redhat.com/broker/rest/application/5342539910156161657077
6/environment-variable/MY_ENV_VAR --user user@example.com
```

JSON Response

```
{
    "api_version": 1.6,
    "data": null,
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Removed environment variable 'MY_ENV_VAR' from
application myapp"
        }
    ],
    "status": "ok",
    "supported_api_versions": [
     1.0,
     1.1,
     1.2,
     1.3,
     1.4,
     1.5,
     1.6
   ],
   "type": null,
   "version": "1.6"
}
```

Chapter 16. Gear Groups

Gear groups are of the same size and share scaling limit in terms of maximum number of gears. A gear group is automatically created when a scaled application is created, or when a cartridge is added to a scaled application. For an application that is not scalable, only one gear group gets created. All cartridges in a gear group scale together.

16.1. Get Application Gear Groups

Description

Get a list of gear groups where each group represents a list of gears that share scaling and storage policies.

Note

Section 13.2.2, “List Embedded Cartridges” provides information on how to view scaling and storage policies for scaled cartridges.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/application/*:id*/gear_groups**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/application/5213190e2587c8817a00012
1/gear_groups --user user@example.com
```

JSON Response

The API returns a list of all gear groups for the specified application. See Chapter 13, *Cartridges* for more information on all cartridge parameters.

```
"api_version": 1.7,
  "data": [
    {
      "additional_gear_storage": 0,
      "base_gear_storage": 1,
      "cartridges": [
        {
          "name": "haproxy-1.4",
          "display_name": "Web Load Balancer",
          "tags": [
            "web_proxy",
            "scales",
            "embedded"
```

```
          ]
        },
        {
          "name": "ruby-1.9",
          "display_name": "Ruby 1.9",
          "tags": [
            "service",
            "ruby",
            "web_framework"
          ]
        }
      ],
      "gear_profile": "small",
      "gears": [
        {
          "id": "53bdbd95e19923514a0000c1",
          "state": "started",
          "ssh_url": "ssh://53bdbd95e19923514a0000c1@myapp-
mydomain.rhcloud.com",
          "region": null,
          "zone": null
        }
      ],
      "id": "53bdbd95e19923514a0000c3",
      "name": "53bdbd95e19923514a0000c3",
      "scales_from": 1,
      "scales_to": -1
    }
  ],
  "messages": [
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "info",
      "text": "Showing gear groups for application 'myapp' with domain
'mydomain'"
    },
    {
      "exit_code": 0,
      "field": null,
      "index": null,
      "severity": "result",
      "text": "started\n"
    }
  ],
  "status": "ok",
  "supported_api_versions": [
    1.0,
    1.1,
    1.2,
    1.3,
    1.4,
    1.5,
    1.6,
```

```
    1.7
  ],
  "type": "gear_groups",
  "version": "1.7"
```

16.2. Get Application Gear Endpoints

Description

Get API endpoints for individual application gears.

Method and URL Structure

Method	URL Structure
GET	**/broker/rest/applications/*:id*/gear_groups**

Request Parameters

Not applicable

cURL Command Example

```
$ curl -X GET
https://openshift.redhat.com/broker/rest/applications/5213190e2587c8817a0001
21/gear_groups --user user@myemail.com --data-urlencode include=endpoints
```

Request

```
{
  "include": "endpoints"
}
```

JSON Response

The API returns a list of all gear groups for the specified application, including API endpoints for individual gears. Some information has been removed for brevity. See Chapter 13, *Cartridges* for more information on all cartridge parameters.

```
{
    "api_version": 1.6,
    "data": [
        {
            "gears": [
                {
                    "id": "5244ccb703ef64dc410000cf",
                    "state": "started",
                    "ssh_url": "ssh://5244ccb703ef64dc410000cf@myapp-
mydomain.rhcloud.com",
                    "endpoints": [
                        {
                            "cartridge_name": "jbosseap-6",
                            "external_address": "23.22.238.189",
                            "external_port": "65006",
```

```
                "internal_address": "127.12.125.129",
                "internal_port": "8080",
                "protocols": [
                    "http",
                    "ws"
                ],
                "types": [
                    "web_framework"
                ],
                "mappings": [
                    {
                        "frontend": "",
                        "backend": ""
                    },
                    {
                        "frontend": "/health",
                        "backend": ""
                    }
                ]
            },
            {
                "cartridge_name": "jbosseap-6",
                "external_address": "23.22.238.189",
                "external_port": "65007",
                "internal_address": "127.12.125.129",
                "internal_port": "7600",
                "protocols": [
                    "tcp"
                ],
                "types": [
                    "web_framework"
                ],
                "mappings": []
            },
            {
                "cartridge_name": "jbosseap-6",
                "external_address": "23.22.238.189",
                "external_port": "65008",
                "internal_address": "127.12.125.129",
                "internal_port": "5445",
                "protocols": [
                    "tcp"
                ],
                "types": [
                    "web_framework"
                ],
                "mappings": []
            },
            {
                "cartridge_name": "jbosseap-6",
                "external_address": "23.22.238.189",
                "external_port": "65009",
                "internal_address": "127.12.125.129",
                "internal_port": "5455",
                "protocols": [
                    "tcp"
```

```
                            ],
                            "types": [
                                "web_framework"
                            ],
                            "mappings": []
                        },
                        {
                            "cartridge_name": "jbosseap-6",
                            "external_address": "23.22.238.189",
                            "external_port": "65010",
                            "internal_address": "127.12.125.129",
                            "internal_port": "4447",
                            "protocols": [
                                "tcp"
                            ],
                            "types": [
                                "web_framework"
                            ],
                            "mappings": []
                        }
                    ]
                }
            ],
        }
    ],
    "messages": [
        {
            "exit_code": 0,
            "field": null,
            "severity": "info",
            "text": "Showing gear groups for application 'myapp' with domain
'mydomain'"
        }
    ],
    "status": "ok",
    "type": "gear_groups",
    "version": "1.6"
}
```

Appendix A. Valid Options for API Resources

A.1. SSH Keys

Name	Valid Options
`name`	
`type`	`ssh-rsa`; `ssh-dss`; `ecdsa-sha2-nistp256-cert-v01@openssh.com`; `ecdsa-sha2-nistp384-cert-v01@openssh.com`; `ecdsa-sha2-nistp521-cert-v01@openssh.com`; `ssh-rsa-cert-v01@openssh.com`; `ssh-dss-cert-v01@openssh.com`; `ssh-rsa-cert-v00@openssh.com`; `ssh-dss-cert-v00@openssh.com`; `ecdsa-sha2-nistp256`; `ecdsa-sha2-nistp384`; `ecdsa-sha2-nistp521`
`content`	

See Also:

- Section 5.1, “Add SSH Key”
- Section 5.4, “Update SSH Key”

A.2. Authorizations

Name	Valid Options
`scope`	`session`; `read`; `userinfo`; `domain/:id/view`; `domain/:id/edit`; `domain/:id/admin`; `application/:id/view`; `application/:id/edit`; `application/:id/admin`
`note`	
`expires_in`	
`reuse`	`true`; `false`

See Also:

- Section 6.1, “Add an Authorization”
- Section 6.4, “Update an Authorization”

A.3. Domains

Name	Valid Options
`name`	
`allowed_gear_sizes`	`small; medium; large; c9`
`owner`	User input; `@self`
`force`	

See Also:

- Section 7.1, “Create a Domain”
- Section 7.3, “List Domains by Owner”
- Section 7.5, “Update Domain”
- Section 7.7, “Delete a Domain”

A.4. Teams

name	Valid Options
name [a]	
owner	**@self**
search [b]	
global	**true; false**

[a] Must be minimum of 2 characters, and maximum of 250 characters in length
[b] Must be minimum of 2 characters in length if specified

See Also:

- Section 8.1, “Create Team”
- Section 8.3, “List Teams by Owner”
- Section 8.4, “Search Teams by Name”

A.5. Members

Name	Valid Options
role	**view**; **edit**; **admin**; **none** [a]
id	
login	
type	**user**; **team** [b]

[a] Note that only the **view** option is valid when adding members to a team.
[b] Note that only the **user** option is valid when adding members to a team.

See Also:

- Section 9.2, “Add or Remove Domain Members”
- Section 9.4, “Add Team Member”
- Section 9.6, “Add or Remove Team Members”
- Section 9.8, “Update Team Member”

A.6. Applications

Name	Valid Options
name	

Name	Valid Options
cartridges	**python-3.3**; **python-2.7**; **python-2.6**; **ruby-2.0**; **ruby-1.9**; **ruby-1.8**; **jenkins-1**; **jbossews-2.0**; **jbossews-1.0**; **perl-5.10**; **php-5.3**; **php-5.4**; **jbosseap-6**; **diy-0.1**
scale	**true**; **false**
gear_size	**small**; **small.highcpu**; **medium**; **large**
initial_git_url	URL; empty
cartridges[][name]	**python-3.3**; **python-2.7**; **python-2.6**; **ruby-2.0**; **ruby-1.9**; **ruby-1.8**; **jenkins-1**; **jbossews-2.0**; **jbossews-1.0**; **perl-5.10**; **php-5.3**; **php-5.4**; **jbosseap-6**; **diy-0.1**
cartridges[][gear_size]	**small**; **small.highcpu**; **medium**; **large**
cartridges[][url]	
environment_variables	
auto_deploy [a]	**true**; **false**
deployment_type [b]	**git**; **binary**
deployment_branch [c]	
keep_deployments [d]	
event	**make-ha**; **disable-ha**; **start**; **stop**; **force-stop**; **restart**; **scale-up**; **scale-down**; **tidy**; **reload**; **thread-dump**
owner	User input; **@self**

[a] The **auto_deploy** option can only be set when modifying an existing application.
[b] The **deployment_type** option can only be set when modifying an existing application.
[c] The **deployment_branch** option can only be set when modifying an existing application.
[d] The **keep_deployments** option can only be set when modifying an existing application.

See Also:

- Section 11.2, “Create an Application”
- Section 11.9, “Update an Application”
- Section 11.10, “Enable High Availability (HA) on Application”
- Section 11.12, “Start Application”
- Section 11.13, “Stop Application”
- Section 11.14, “Force Stop Application”
- Section 11.15, “Restart Application”
- Section 11.16, “Scale Up Application”
- Section 11.17, “Scale Down Application”
- Section 11.18, “Tidy Application Framework”
- Section 11.19, “Reload Application”
- Section 11.20, “Trigger Thread Dump”

A.7. Cartridges

Name	Valid Options
name	cron-1.4; mysql-5.1; mysql-5.5; postgresql-9.2; haproxy-1.4; jenkins-client-1
colocate_with	ruby-1.9; haproxy-1.4
scales_from	
scales_to	
additional_storage	
gear_size	small; medium
url	
environment_variables	
additional_gear_storage	

See Also:

- Section 13.2.1, “Add Embedded Cartridge”
- Section 13.2.4, “Update Cartridge Configuration”
- Section 13.2.6, “Start Cartridge”
- Section 13.2.7, “Stop Cartridge”
- Section 13.2.8, “Restart Cartridge”
- Section 13.2.9, “Reload Cartridge”

A.8. Deployments

Name	Valid Options
ref	
artifact_url	
hot_deploy	true; false
force_clean_build	true; false
deployments	

See Also:

- Section 14.2, “Deploy an Application”
- Section 14.3, “Activate a Deployment of an Application”
- Section 14.4, “Update an Application Deployment”

Appendix B. Revision History

Revision 2.1-2	**Thur 11 Dec 2014**	**Bilhar Aulakh**

OpenShift Enterprise 2.2.2 release.
Updated title of Section 11.10, “Enable High Availability (HA) on Application” and added Section 11.11, “Disable High Availability (HA) on Application” to disable HA.

Revision 2.1-1	**Wed 20 Aug 2014**	**Bilhar Aulakh**

Updated Section 11.2, “Create an Application” and Section 16.1, “Get Application Gear Groups” with new region parameter.
Updated Ruby cartridge information to version 2.0 in various topics.

Revision 2.1-0	**Fri May 16 2014**	**Bilhar Aulakh**

OpenShift Enterprise 2.1 release.
Updated Section 11.2, “Create an Application” with information about domain being automatically created.
Added API resources for teams and team members.
Added API resource: Section 11.3, “List Applications by Owner”.
Added API resource: Section 7.6, “Remove Self from a Domain”.
Added API resource: Section 14.4, “Update an Application Deployment”.

Revision 2.0-1	**Wed Feb 26 2014**	**Bilhar Aulakh**

BZ 1051636: Added note about application availability to Section 11.2, “Create an Application”.
BZ 1048758: Fixed URL path in REST calls for environment variables.

Revision 2.0-0	**Mon Dec 9 2013**	**Bilhar Aulakh**

OpenShift Enterprise 2.0 release.
Added information about deploying applications with artifact_url.
Added API resource for gear endpoints.
Added API resources to manage environment variables.
Added API resource to tidy application framework.
Added API resource to trigger thread dump.
Updated all screen samples and references for API v1.6.