



Red Hat OpenShift Service on AWS 4

시작하기

법적 공지

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초록

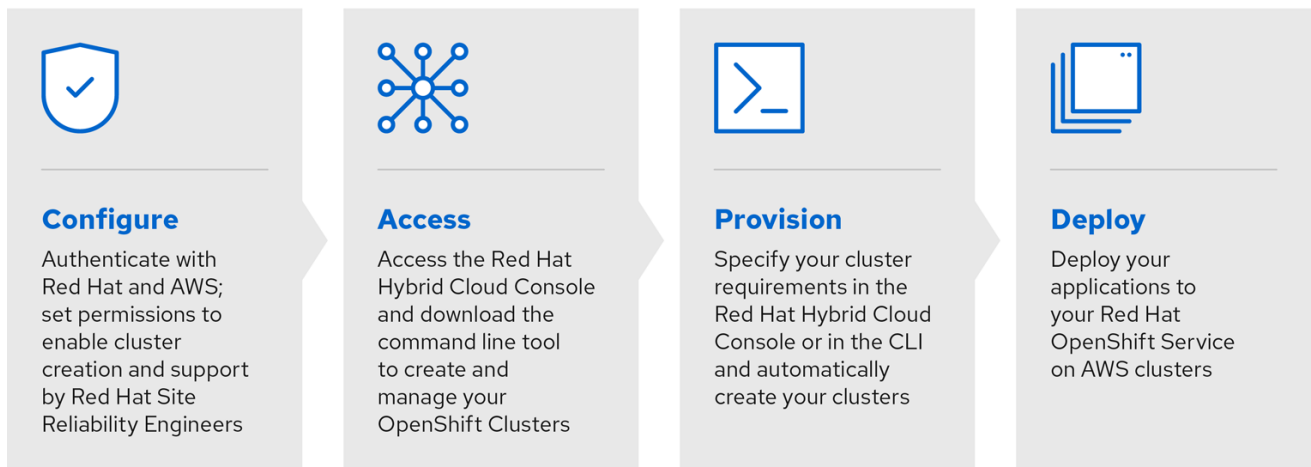
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1장.



참고



291_OpenShift_1122

1.1. 사전 요구 사항

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1.2.

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사전 요구 사항

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- 참고

절차

- 1.
- 2.
- 3.

4. a.

b.

5.

6.

7.

추가 리소스

-

절차

1. a.  참고

b.

```
$ aws sts get-caller-identity
```

출력 예

```
<aws_account_id> arn:aws:iam::<aws_account_id>:user/<username>
<aws_user_id>
```

2. a.

b.

```
$ tar xvf rosa-linux.tar.gz
```

c.

```
$ sudo mv rosa /usr/local/bin/rosa
```

d.

```
$ rosa version
```

출력 예

```
1.2.8
```

e.

```
$ rosa login
```

출력 예

```
To login to your Red Hat account, get an offline access token at
https://console.redhat.com/openshift/token/rosa
? Copy the token and paste it here:
```




참고

f. `$ rosa whoami`

출력 예

```


AWS Account ID:          <aws_account_number>
AWS Default Region:      us-east-1
AWS ARN:                  arn:aws:iam::
<aws_account_number>:user/<aws_user_name>
OCM API:                  https://api.openshift.com
OCM Account ID:          <red_hat_account_id>
OCM Account Name:        Your Name
OCM Account Username:    you@domain.com
OCM Account Email:       you@domain.com
OCM Organization ID:     <org_id>
OCM Organization Name:   Your organization
OCM Organization External ID: <external_org_id>

```

1.3.

표 1.1.

구성 요소	
	<ul style="list-style-type: none"> •
	<ul style="list-style-type: none"> • • • • •
암호화	<ul style="list-style-type: none"> • • •

구성 요소	
	<ul style="list-style-type: none"> • •
	<ul style="list-style-type: none"> • •
	<ul style="list-style-type: none"> • • • •
	<ul style="list-style-type: none"> • • •
	<ul style="list-style-type: none"> • Machine CIDR: 10.0.0.0/16 • Service CIDR: 172.30.0.0/16 • •
	<ul style="list-style-type: none"> •  참고 •
	<ul style="list-style-type: none"> • •

절차

1.  참고

 참고

1. `$ rosa create ocm-role`

2. `$ rosa create user-role`

 참고

절차

1. `$ rosa create account-roles`

절차

1.

2.

3.  참고

4. 다음을 클릭합니다.

5.

6.

7.

검증

•  참고

1.4.

 참고

절차

1. `$ rosa create admin --cluster=<cluster_name>` ①

①

출력 예

W: It is recommended to add an identity provider to login to this cluster. See 'rosa create idp -help' for more information.

I: Admin account has been added to cluster '<cluster_name>'.

I: Please securely store this generated password. If you lose this password you can delete and recreate the cluster admin user.

I: To login, run the following command:

```
oc login https://api.example-cluster.wxyz.p1.openshiftapps.com:6443 --username cluster-admin --password d7Rca-Ba4jy-YeXhs-WU42J
```

I: It may take up to a minute for the account to become active.



참고

추가 리소스

-

1.5.



중요

절차

- 1.
- 2.

3. a. `$ rosa create idp --cluster=<cluster_name> --interactive` **1**



출력 예

I: Interactive mode enabled.

Any optional fields can be left empty and a default will be selected.

? Type of identity provider: github

? Identity provider name: github-1

? Restrict to members of: organizations

? GitHub organizations: <github_org_name> **1**

? To use GitHub as an identity provider, you must first register the application:

- Open the following URL:

```
https://github.com/organizations/<github_org_name>/settings/applications/new?
oauth_application%5Bcallback_url%5D=https%3A%2F%2Foauth-openshift.apps.
<cluster_name>/<random_string>.p1.openshiftapps.com%2Foauth2callback%2Fgi
thub-1&oauth_application%5Bname%5D=
<cluster_name>&oauth_application%5Burl%5D=https%3A%2F%2Fconsole-
```

```
openshift-console.apps.<cluster_name>/<random_string>.p1.openshiftapps.com
- Click on 'Register application'
```

...

1

b.  참고

c.

...

? Client ID: <github_client_id> 1

? Client Secret: [? for help] <github_client_secret> 2

? GitHub Enterprise Hostname (optional):

? Mapping method: claim 3

I: Configuring IDP for cluster '<cluster_name>'

I: Identity Provider 'github-1' has been created.

It will take up to 1 minute for this configuration to be enabled.

To add cluster administrators, see 'rosa grant user --help'.

To login into the console, open https://console-openshift-console.apps.<cluster_name>.<random_string>.p1.openshiftapps.com and click on github-1.

<cluster_name>.<random_string>.p1.openshiftapps.com and click on github-1.

1

2

3

 참고

d. `$ rosa list idps --cluster=<cluster_name>`

출력 예

```
NAME      TYPE    AUTH URL
github-1  GitHub https://oauth-openshift.apps.<cluster_name>.<random_string>.p1.openshiftapps.com/oauth2callback/github-1
```

추가 리소스

-

절차

1.

2.

절차

- a. `$ rosa grant user cluster-admin --user=<idp_user_name> --cluster=<cluster_name>` 1

1

출력 예

```
I: Granted role 'cluster-admins' to user '<idp_user_name>' on cluster '<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
ID          GROUPS
<idp_user_name>  cluster-admins
```

- a. `$ rosa grant user dedicated-admin --user=<idp_user_name> --cluster=<cluster_name>`

출력 예

```
I: Granted role 'dedicated-admins' to user '<idp_user_name>' on cluster '<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
ID          GROUPS
<idp_user_name>  dedicated-admins
```

1.6.

절차

1. `$ rosa describe cluster -c <cluster_name> | grep Console` 1

1

출력 예

```
Console URL:      https://console-openshift-console.apps.example-cluster.wxyz.p1.openshiftapps.com
```

2. •


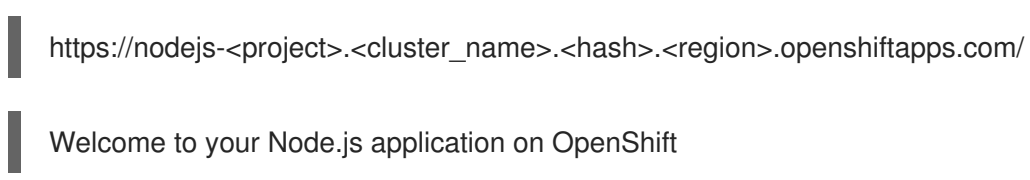
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1.7.

사전 요구 사항

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절차

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
8.  참고
- 9.
- 10.
- 11.
12. 생성을 클릭하여 애플리케이션을 배포합니다.
- 13.
14. 

```
https://nodejs-<project>.<cluster_name>.<hash>.<region>.openshiftapps.com/
Welcome to your Node.js application on OpenShift
```
15. a.
- b.

1.8.

절차

- a. `$ rosa revoke user cluster-admin --user=<idp_user_name> --cluster=<cluster_name>` **1**

1

출력 예

```
? Are you sure you want to revoke role cluster-admins from user <idp_user_name>
in cluster <cluster_name>? Yes
I: Revoked role 'cluster-admins' from user '<idp_user_name>' on cluster
'<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
W: There are no users configured for cluster '<cluster_name>'
```

- a. `$ rosa revoke user dedicated-admin --user=<idp_user_name> --cluster=<cluster_name>`

출력 예

```
? Are you sure you want to revoke role dedicated-admins from user
<idp_user_name> in cluster <cluster_name>? Yes
I: Revoked role 'dedicated-admins' from user '<idp_user_name>' on cluster
'<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
W: There are no users configured for cluster '<cluster_name>'
```

절차

- 1.
- 2.

1.9.



중요

절차

1. `$ rosa delete cluster --cluster=<cluster_name> --watch`



중요

2. `$ rosa delete oidc-provider -c <cluster_id> --mode auto` **1**

1



참고

3. `$ rosa delete operator-roles -c <cluster_id> --mode auto` **1**

1

4.  중요

`$ rosa delete account-roles --prefix <prefix> --mode auto` **1**

1

5. a.

b.

c.

d.

e.


1.10. 다음 단계

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- [모니터링 스택 구성](#)

1.11. 추가 리소스

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2장.

 참고

2.1. 사전 요구 사항

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2.2.

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2.2.1.

사전 요구 사항

-
-  참고

절차

- 1.
- 2.
- 3.
4. a.
b.
- 5.
- 6.
- 7.

추가 리소스

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2.2.2.

사전 요구 사항

-
-  참고

절차

1. a.  참고

b. `$ aws sts get-caller-identity`

출력 예

```
<aws_account_id>  arn:aws:iam::<aws_account_id>:user/<username>
<aws_user_id>
```

2. a.

b. `$ tar xvf rosa-linux.tar.gz`

c. `$ sudo mv rosa /usr/local/bin/rosa`

d. `$ rosa version`

출력 예

```
1.2.8
```

e. `# rosa completion bash > /etc/bash_completion.d/rosa`

 참고

f. `$ rosa login`

출력 예

```
To login to your Red Hat account, get an offline access token at
https://console.redhat.com/openshift/token/rosa
? Copy the token and paste it here:
```

 참고

g. `$ rosa whoami`

출력 예

```

AWS Account ID:      <aws_account_number>
AWS Default Region:  us-east-1
AWS ARN:             arn:aws:iam::
<aws_account_number>:user/<aws_user_name>
OCM API:             https://api.openshift.com
OCM Account ID:     <red_hat_account_id>
OCM Account Name:    Your Name
OCM Account Username: you@domain.com
OCM Account Email:   you@domain.com
OCM Organization ID: <org_id>
OCM Organization Name: Your organization
OCM Organization External ID: <external_org_id>

```

3. a. `$ rosa download openshift-client`
- b. `$ tar xvf openshift-client-linux.tar.gz`
- c. `$ sudo mv oc /usr/local/bin/oc`
- d. `$ rosa verify openshift-client`

출력 예

```

I: Verifying whether OpenShift command-line tool is available...
I: Current OpenShift Client Version: 4.9.12

```

2.3.

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추가 리소스

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2.4.



참고

사전 요구 사항

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절차

1. `$ rosa create admin --cluster=<cluster_name>` **1**

1

출력 예

W: It is recommended to add an identity provider to login to this cluster. See 'rosa create idp --help' for more information.

I: Admin account has been added to cluster '<cluster_name>'.

I: Please securely store this generated password. If you lose this password you can delete and recreate the cluster admin user.

I: To login, run the following command:

```
oc login https://api.example-cluster.wxyz.p1.openshiftapps.com:6443 --username
cluster-admin --password d7Rca-Ba4jy-YeXhs-WU42J
```

I: It may take up to a minute for the account to become active.



참고

2. a. `$ oc login <api_url> --username cluster-admin --password <cluster_admin_password>` **1**

1

- b. `$ oc whoami`

출력 예

```
cluster-admin
```

추가 리소스

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2.5.

2.5.1.



중요

사전 요구 사항

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절차

- 1.
- 2.

3. a. `$ rosa create idp --cluster=<cluster_name> --interactive` **1**


1

출력 예

```
I: Interactive mode enabled.
Any optional fields can be left empty and a default will be selected.
? Type of identity provider: github
? Identity provider name: github-1
? Restrict to members of: organizations
? GitHub organizations: <github_org_name> 1
? To use GitHub as an identity provider, you must first register the application:
- Open the following URL:

https://github.com/organizations/<github_org_name>/settings/applications/new?
oauth_application%5Bcallback_url%5D=https%3A%2F%2Foauth-openshift.apps.
<cluster_name>/<random_string>.p1.openshiftapps.com%2Foauth2callback%2Fgi
thub-1&oauth_application%5Bname%5D=
<cluster_name>&oauth_application%5Burl%5D=https%3A%2F%2Fconsole-
openshift-console.apps.<cluster_name>/<random_string>.p1.openshiftapps.com
- Click on 'Register application'
...
```

1

b.  참고

c. ...
 ? Client ID: <github_client_id> **1**
 ? Client Secret: [? for help] <github_client_secret> **2**
 ? GitHub Enterprise Hostname (optional):
 ? Mapping method: claim **3**

```
I: Configuring IDP for cluster '<cluster_name>'
I: Identity Provider 'github-1' has been created.
  It will take up to 1 minute for this configuration to be enabled.
  To add cluster administrators, see 'rosa grant user --help'.
  To login into the console, open https://console-openshift-console.apps.<cluster_name>.<random_string>.p1.openshiftapps.com and click on github-1.
```



참고

d. `$ rosa list idps --cluster=<cluster_name>`

출력 예

```
NAME    TYPE    AUTH URL
github-1  GitHub  https://oauth-openshift.apps.<cluster_name>.<random_string>.p1.openshiftapps.com/oauth2callback/github-1
```

추가 리소스

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2.5.2.

사전 요구 사항

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절차

- 1.
- 2.

2.5.3.

사전 요구 사항

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절차

- a. `$ rosa grant user cluster-admin --user=<idp_user_name> --cluster=<cluster_name>` **1**

1

출력 예

```
I: Granted role 'cluster-admins' to user '<idp_user_name>' on cluster '<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
ID          GROUPS
<idp_user_name>  cluster-admins
```

- a. `$ rosa grant user dedicated-admin --user=<idp_user_name> --cluster=<cluster_name>`

출력 예

```
I: Granted role 'dedicated-admins' to user '<idp_user_name>' on cluster '<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
ID          GROUPS
<idp_user_name>  dedicated-admins
```

2.6.

사전 요구 사항

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절차

1. `$ rosa describe cluster -c <cluster_name> | grep Console` **1**

1

출력 예

```
Console URL:      https://console-openshift-console.apps.example-
cluster.wxyz.p1.openshiftapps.com
```


2. •
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2.7.

사전 요구 사항

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절차

- 1.
- 2.
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- 5.
- 6.
- 7.
8.  참고
- 9.

10.

11.

12. 생성을 클릭하여 애플리케이션을 배포합니다.

13.

14. `https://nodejs-<project>.<cluster_name>.<hash>.<region>.openshiftapps.com/`

Welcome to your Node.js application on OpenShift

15. a.

b.

2.8.

2.8.1.

사전 요구 사항

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-
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절차

- a. `$ rosa revoke user cluster-admin --user=<idp_user_name> --cluster=<cluster_name>` 1

1

출력 예

```
? Are you sure you want to revoke role cluster-admins from user <idp_user_name>
in cluster <cluster_name>? Yes
I: Revoked role 'cluster-admins' from user '<idp_user_name>' on cluster
'<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
W: There are no users configured for cluster '<cluster_name>'
```

- a. `$ rosa revoke user dedicated-admin --user=<idp_user_name> --cluster=<cluster_name>`

출력 예

```
? Are you sure you want to revoke role dedicated-admins from user
<idp_user_name> in cluster <cluster_name>? Yes
I: Revoked role 'dedicated-admins' from user '<idp_user_name>' on cluster
'<cluster_name>'
```

- b. `$ rosa list users --cluster=<cluster_name>`

출력 예

```
W: There are no users configured for cluster '<cluster_name>'
```

2.8.2.

사전 요구 사항

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절차

- 1.
- 2.

2.9.



중요

사전 요구 사항

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-
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절차

1. `$ rosa delete cluster --cluster=<cluster_name> --watch`



중요

-

2.  `$ rosa delete oidc-provider -c <cluster_id> --mode auto` 





참고

3.  `$ rosa delete operator-roles -c <cluster_id> --mode auto` 



4.  중요

 `$ rosa delete account-roles --prefix <prefix> --mode auto` 



5. a.
b.
c.
d.
e.

2.10. 다음 단계

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-
- [모니터링 스택 구성](#)

2.11. 추가 리소스

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-
-

3장.

3.1.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

3.2. 추가 리소스

-