



# Red Hat Insights 1-latest

## Client Configuration Guide for Red Hat Insights

Configuration options and use cases for the Insights client



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## Abstract

This guide is for Insights for Red Hat Enterprise Linux users who want to configure Insights client features on their RHEL systems. The Insights client configuration settings on your system affect the interaction with Insights for Red Hat Enterprise Linux. Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see our CTO Chris Wright's message.

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## CHAPTER 1. INSIGHTS CLIENT OVERVIEW

The Insights client (**insights-client**) is the client for Red Hat Insights for Red Hat Enterprise Linux. Run **insights-client** from the command line.

### 1.1. RED HAT INSIGHTS CLIENT DISTRIBUTION

Insights client is available for the following releases of Red Hat Enterprise Linux (RHEL).

RHEL release	Comments
RHEL 9	Distributed with Insights client pre-installed.
RHEL 8	Distributed with Insights client pre-installed, unless RHEL 8 was installed as a minimal installation.
RHEL 7	Distributed with the Insights client RPM package loaded but not installed.
RHEL 6.10 and later	You must download the Insights client RPM package and install it.



#### NOTE

##### Insights client installation on older versions

RHEL versions 6 and 7 do not come with the Insights client pre-installed. If you have one of these versions, run the following commands in your terminal:

```
[root@server ~]# yum install insights-client
```

Then, register the system to Red Hat Insights for Red Hat Enterprise Linux:

```
[root@server ~]# insights-client --register
```

#### Additional resources

- [Getting Started with Red Hat Insights for Red Hat Enterprise Linux](#)



## CHAPTER 2. INSTALLING INSIGHTS-CLIENT

You can install Red Hat Insights for Red Hat Enterprise Linux on an existing system that is managed by Red Hat infrastructure, or you can install it on a minimal installation of Red Hat Enterprise Linux.

After you install the Insights client, you need to register your system. For more information about registering systems, refer to [Configuring authentication](#).

### 2.1. INSTALLING THE INSIGHTS CLIENT ON AN EXISTING SYSTEM MANAGED BY RED HAT CLOUD ACCESS

Use these instructions to deploy Red Hat Insights for Red Hat Enterprise Linux on an existing Red Hat Enterprise Linux (RHEL) system connected to Red Hat Cloud Access.

#### Prerequisites

- Root-level access for the system.

#### Procedure

- Enter the following command to install the current version of the Insights client package:  
RHEL versions 6 and 7

```
[root@server ~]# yum install insights-client
```

RHEL version 8 and later

```
[root@server ~]# dnf install insights-client
```



#### NOTE

##### Insights client installation on older versions

RHEL versions 6 and 7 do not come with the Insights client pre-installed. If you have one of these versions, run the following commands in your terminal:

```
[root@server ~]# yum install insights-client
```

### 2.2. INSTALLING INSIGHTS-CLIENT ON AN EXISTING SYSTEM MANAGED BY RED HAT UPDATE INFRASTRUCTURE

Use these instructions to deploy Insights for Red Hat Enterprise Linux on an existing, cloud marketplace-purchased Red Hat Enterprise Linux system managed by Red Hat Update Infrastructure (RHUI).

#### Prerequisites

- Root-level access for the system.

#### Procedure

- Enter the following command to install the current version of the Insights client package:

RHEL versions 6 and 7

```
[root@server ~]# yum install insights-client
```

RHEL version 8 and later

```
[root@server ~]# dnf install insights-client
```

## 2.3. HOW THE INSIGHTS CLIENT CLI AND CONFIGURATION FILE INTERACT

The Insights client runs automatically, according to its scheduler settings. By default, it runs every 24 hours. To run the client interactively, enter the **insights-client** command.

When the client runs, the following values and settings control its behavior:

1. Values that you provide when you run **insights-client** from the CLI temporarily override the preset configuration file settings and system environment settings. Any values that you provide for options in the **insights-client** command are used only for that instance of Insights client.
2. Settings in the configuration files (**/etc/insights-client/insights-client.conf** and **/etc/insights-client/remove.conf**) override system environment settings.
3. Values of any system environment variables (**printenv**) are not affected by the CLI or the client configuration files.



### NOTE

If you are using RHEL 6.9 or earlier, the client command is **redhat-access-insights**.

## 2.4. INSTALLING INSIGHTS CLIENT ON A MINIMAL INSTALLATION OF RHEL

The Insights client is not automatically installed on systems running the minimal installation of Red Hat Enterprise Linux 8.

For more information about minimal installations, see [Configuring software selection](#) in *Performing a standard RHEL installation*.

### Prerequisites

- Root-level access to the system.

### Procedure

1. To create a minimal installation with the Insights client, select **Minimal Installation** from the RHEL Software Selection options in the Anaconda installer.
2. Make sure to select the **Standard** checkbox in the **Additional Software for Selected Environment** section. The Standard option includes the **insights-client** package in the RHEL installation.

If you do not select the Standard checkbox, RHEL installs without the **insights-client** package. If that happens, use **dnf install** to install the Insights client at a later time.

#### Additional resources

- [Configuring software selection](#)
- [Performing a standard RHEL installation](#)

## 2.5. HOW TO RESOLVE THE INSIGHTS CLIENT/REAL-TIME SCHEDULING ISSUE

The Insights client executes a number of commands that collect data on your system. Therefore, it has a configuration restriction that limits its CPU usage to no more than 30%. This restriction is defined in the configuration file:

**insights-client-boot.service: CPUQuota=30%**

This configuration prevents the Insights client from creating a CPU spike on your system. This spike could interfere with other applications running on your system. Specifically, it could prevent applications that depend on real-time scheduling from initiating.

If you need to enable real-time scheduling you can disable the CPU quota restriction. The risk of removing this configuration is minimal. However, it is possible that when the Insights client runs, the CPU usage may become unusually high. If this situation occurs and negatively impacts other services on your system, please contact Red Hat support for assistance.

#### Additional resources

[How to Remove the CPU quota .](#)

[How do I open and manage a support case on the Customer Portal?](#)

## CHAPTER 3. CONFIGURING AUTHENTICATION



### IMPORTANT

Basic Authentication has been deprecated. If you are using Basic Authentication, you must change to one of the currently supported authenticated methods. For more information about changing from Basic Authentication to certificate-based authentication for user access, refer to [How to switch from Basic Auth to Certificate Authentication for Red Hat Insights](#).

### 3.1. AUTHENTICATION METHODS

Depending on how you use Red Hat Insights for Red Hat Enterprise Linux, you must use one of the following authentication methods:

- **Certificate-based authentication (CERT)**  
Certificate-based authentication is the default authentication method. Certificates are generated when you register a system with Red Hat Subscription Manager (RHSM), or when your system is managed by Red Hat Satellite system management. The client configuration file includes **authmethod=CERT** by default. No additional configuration changes are required.

- **Activation keys**  
The preferred authentication method uses activation keys, along with the Organization ID, to register a system with Red Hat hosted services such as RHSM or remote host configuration (RHC).

The activation keys for your organization are listed on the Activation Keys page in the Red Hat Hybrid Cloud Console. You can use an activation key as an authentication token to register a system with Red Hat hosted services, such as Red Hat Subscription Manager (RHSM) or remote host configuration (RHC). Administrators can create, edit, and delete activation keys for your organization.

- **Service accounts**  
Service accounts authenticate applications and services, whereas user accounts authenticate human users. Use service account authentication when:
  - An application or service needs access to specific resources.
  - The application or service needs to access resources without the need for human intervention.
  - The application or service needs to access resources from multiple locations.  
Service accounts employ a token-based authentication model for API access to cloud services. CERT and activation keys use certificate-based authentication.

For more information about the transition from basic authentication to service accounts and instructions for updating accounts that use Basic Authentication for API access, refer to [Transition of Red Hat Hybrid Cloud Console APIs from basic authentication to token-based authentication via service accounts](#).

For more information about how to use service accounts, refer to [Creating and Managing Service Accounts](#).

#### Additional resources

- [Creating and managing activation keys in the Red Hat Hybrid Cloud Console](#) .
- [Getting started with activation keys on the Red Hat Hybrid Cloud Console](#)
- [How to switch from Basic Auth to Certificate Authentication for Red Hat Insights](#)
- [Transition of Red Hat Hybrid Cloud Console APIs from basic authentication to token-based authentication via service accounts](#)
- [Creating and Managing Service Accounts](#)

## 3.2. USING ACTIVATION KEYS FOR AUTHENTICATION

An activation key is a preshared authentication token that enables authorized users to register and configure systems. It eliminates the need to store, use, and share a personal username and password combination, which increases security and facilitates automation.

You can use an activation key and a numeric organization identifier (organization ID) to register a system with Red Hat hosted services, such as Red Hat Subscription Manager (RHSM) or remote host configuration (rhc). Your organization's activation keys and organization ID are displayed on the Activation Keys page in the Hybrid Cloud Console.

For more information about how to create and manage activation keys for your systems, see [Creating and managing activation keys in the Red Hat Hybrid Cloud Console](#).

## 3.3. REGISTERING SYSTEMS WITH RED HAT HOSTED SERVICES

After you install the Insights client, you need to register your system. This requires two steps:

- Registering with Red Hat hosted services, such as Red Hat Subscription Manager (RHSM) or remote host configuration (rhc).
- Registering the system with the Insights client

For more information about registering the system with Insights client, refer to [Configuring insights-client](#).

### Prerequisites

- Admin login access to each system
- Activation key
- Organization ID

### Procedure

#### RHEL 7 and 8

1. To register a system running Red Hat Enterprise Linux version 7 or 8, use an activation key and your Organization ID to register with RHSM.

```
# subscription-manager register --activationkey=_activation_key_name_ --
org=_organization_ID_
```

#### RHEL 9

1. To register a system running RHEL 9 or later, use an activation key to register with the rhc client. If you do not want to run rhc management services on your system, use the same commands for RHEL 9 systems as you would for RHEL 7 or RHEL 8.

```
# rhc connect --activation-key example_key --organization
```

### Additional resources

- For more information about installing Insights, refer to [Getting Started with Red Hat Insights](#)
- For more information about the rhc client, refer to [Remote Host Configuration and Management](#)
- [Getting started with activation keys on the Red Hat Hybrid Cloud Console](#)
- [Creating and managing activation keys in the Red Hat Hybrid Cloud Console](#) .
- [Getting Started with RHEL System Registration](#)
- For more information about registering the system with Insights client, refer to [Configuring insights-client](#).

## CHAPTER 4. CONFIGURING INSIGHTS-CLIENT

After you install Insights client, you must register your system with Red Hat Insights for Red Hat Enterprise Linux. Registration enables you to use Red Hat Insights for Red Hat Enterprise Linux services.

### 4.1. REGISTERING YOUR SYSTEM WITH RED HAT INSIGHTS

You can use the **insights-client** command to register a system with Red Hat Insights.

As an option, you can assign a display name for your host when you register your system. The display name identifies the system in the Insights UI. If you do not assign a display name when you register the system, Insights uses the default hostname for the system.

#### Prerequisites

- Root-level permissions for your system.
- The Insights client is installed on your system.

#### Procedure

1. Enter the **insights-client** command with the **--register** option.

```
[root@insights]# insights-client --register
```

2. **Optional.** To specify the display name for the system, include the **--display-name** option. For example:

```
[root@insights]# insights-client --register --display-name ITC-4
System display name changed from None to ITC-4
```

#### Verification

- Enter the **insights-client** command with the **--status** option.

```
[root@insights]# insights-client --status
System is registered locally via .registered file. Registered at 2019-08-20T12:56:48.356814
Insights API confirms registration.
```

You can now access the cloud-based Red Hat Insights for Red Hat Enterprise Linux services.

#### Additional resources

- [Deploying Red Hat Insights on existing RHEL systems managed by Red Hat Cloud Access](#)
- [Deploying Red Hat Insights on existing RHEL systems managed by Red Hat Update Infrastructure](#)
- [Creating and managing activation keys in the Red Hat Hybrid Cloud Console](#)

### 4.2. UNREGISTERING YOUR SYSTEM WITH INSIGHTS

You can unregister your system with Red Hat Insights for Red Hat Enterprise Linux. When you do so, your system information is no longer uploaded to Insights for Red Hat Enterprise Linux.

### Prerequisites

- Root-level access to your system.
- Your system is registered with Insights for Red Hat Enterprise Linux.

### Procedure

1. Enter the **insights-client** command with the **--unregister** option.

```
[root@insights]# insights-client --unregister
Successfully unregistered from the Red Hat Insights Service
```

### Verification

- Enter the **insights-client** command with the **--status** option.

```
[root@insights]# insights-client --status
System is NOT registered locally via .registered file. Unregistered at 2021-03-
12T10:36:39.257300
Insights API says this machine was unregistered at 2021-03-12T00:36:39.000Z
```

## 4.3. RE-REGISTERING YOUR SYSTEM WITH RED HAT INSIGHTS

To re-register systems in Red Hat Insights for Red Hat Enterprise Linux, and also avoid any duplicate host entries in the Insights inventory service after re-registering, run the **insights-client** command twice using two options:

1. **--unregister**
2. **--register**

### Prerequisites

- Root-level permissions for your system.
- The Insights client is installed on your system.

### Procedure

1. Enter the **insights-client** command with the **--unregister** option.

```
[root@insights]# insights-client --unregister
```

2. Enter the **insights-client** command with the **--register** option.

```
[root@insights]# insights-client --register
```

### Verification



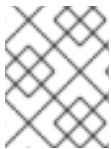
Successful implementation of the re-registration commands using **insights-client** command with the **—unregister** option followed by the **insights-client** command with the **—register** option results in the following message:

```
[root@insights]# Successfully uploaded report for <machine name>
View the Red Hat Insights console at https://console.redhat.com/insights/
```

## 4.4. CHANGING THE HOST DISPLAY NAME

You can change the host display name as it appears in the GUI. Make this change either when you register the system with Red Hat Insights for Red Hat Enterprise Linux, or after registration. If you do not assign a display name when you register the system, Red Hat Insights for Red Hat Enterprise Linux uses the value in **/etc/hostname**.

This procedure is optional. Determine if you want to use a display name in addition to the default **hostname**.



### NOTE

Using the **insights-client** command to set the display name takes effect immediately, but does not run the Insights client.



### NOTE

If you obfuscate the host name, the **hostname** configured in **/etc/hostname** is obfuscated. Assign a **display name** so that you can identify a host even when its **hostname** is obfuscated.

### Prerequisites

- Root-level access to the system.

### Procedure

- Enter the **insights-client** command with the **--display-name** option and specify a display name.

```
[root@insights]# insights-client --display-name ITC-4
System display name changed from None to ITC-4
```

- To create a display name that contains spaces, use double quotes.

```
[root@insights]# insights-client --display-name "ITC-4 B9 4th floor"
System display name changed from None to ITC-4 B9 4th floor
```

## 4.5. DISPLAYING THE CLIENT VERSION

You can display the client version and client core version.

### Prerequisites

- Root-level access to your system.

## Procedure

- Enter the **insights-client** command with the **--version** option.

```
[root@insights]# insights-client --version  
Client: 3.0.6-0  
Core: 3.0.121-1
```

## Additional resources

- [Red Hat Insights Client Core Changelog](#)
- [Changelog file](#)

## CHAPTER 5. INSIGHTS CLIENT DATA OBFUSCATION

The Insights client provides obfuscation for both IP addresses and host names. Obfuscation uses a Python SoS process to replace the host name and IP address with preset values when it processes the Insights client archive. The processed archive file is then sent to Red Hat Insights for Red Hat Enterprise Linux.

You can enable or disable obfuscation in the `/etc/insights-client/insights-client.conf` configuration file. You can either choose to obfuscate the system IP address, or you can choose to obfuscate both the IP address and host name. You cannot select obfuscation for only the host name.



### NOTE

You cannot choose the values for obfuscation. The Python SoS process automatically selects the values.



### NOTE

The Red Hat Insights for Red Hat Enterprise Linux compliance service uses OpenSCAP tools to generate compliance reports based on information from the host system. The collaboration with OpenSCAP prevents the compliance service's ability to completely obfuscate or redact host name and IP address data. Also, host information is sent to Insights for Red Hat Enterprise Linux when a compliance data collection job launches on the host system. Red Hat Insights for Red Hat Enterprise Linux is working to improve obfuscation options for host information.

For information about how Red Hat Insights for Red Hat Enterprise Linux handles data collection, see [Red Hat Insights Data & Application Security](#) .

### 5.1. OBFUSCATING THE IPV4 ADDRESS

You can obfuscate the IPv4 host address in the archive file before it is sent to Red Hat Insights for Red Hat Enterprise Linux.

When you choose IP address obfuscation, your host address in the archive file is changed to the value provided in the Python SoS file. You cannot configure the value provided for obfuscation. You also cannot mask or select the portion of the host IP address to obfuscate.



### NOTE

IP address obfuscation is supported only for IPv4 addresses.

#### Procedure

1. Open the `/etc/insights-client/insights-client.conf` file with an editor.
2. Locate the line that contains the following setting:

```
#obfuscate=False
```

3. Remove the `#` and change **False** to **True**.

```
obfuscate=True
```

4. Save and close the the `/etc/insights-client/insights-client.conf` file.

### Example

- Original host IP address

```
192.168.0.24
```

- Obfuscated host IP address as it appears in Red Hat Insights for Red Hat Enterprise Linux

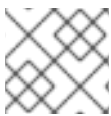
```
10.230.230.1
```

If you choose IP address obfuscation on another system, the Python SoS process changed its IP address to the same obfuscated value in the archive file. In this example, the additional system also shows an obfuscated IP address of **10.230.230.1**. In the Red Hat Insights for Red Hat Enterprise Linux GUI, you might see multiple systems with the same IP address as a result of obfuscation.

## 5.2. OBFUSCATING THE HOST NAME

You can obfuscate the host name in the archive file before it is sent to Red Hat Insights for Red Hat Enterprise Linux. The **hostname** in `/etc/hostname` changes to **host0** if you have a single host name assigned to your system. Additional host names change to **host1**, **host2**, up to the number of host names you configured for your system.

You can assign a display name to your system that is not obfuscated. The display name appears in Red Hat Insights for Red Hat Enterprise Linux application. Only the `/etc/hostname` is obfuscated.



### NOTE

You must also obfuscate the IP address if you want to obfuscate the host name.

### Prerequisites

- You have obfuscated the IP address. For more information, see [Obfuscating the IPv4 address](#).

### Procedure

1. Open the `/etc/insights-client/insights-client.conf` file with an editor.
2. Locate the line that contains **obfuscate\_hostname**.

```
#obfuscate_hostname=False
```

3. Remove the **#** and change **False** to **True**.

```
obfuscate_hostname=True
```

4. Save and close the the `/etc/insights-client/insights-client.conf` file.
5. (Optional) Use the **insights-client** command with the **--display-name** option to assign a display name for your system. The display name is not obfuscated.

```
[root@insights]# insights-client --display-name ITC-4
```

When you choose host name obfuscation, the **/etc/hostname** value in the archive file is changed to the value that is provided in the Python SoS file. The obfuscated host name then displays in Red Hat Insights for Red Hat Enterprise Linux application.

### Example

- Original **/etc/hostname**

```
RTP.data.center.01
```

- Obfuscated **/etc/hostname** as it appears in Red Hat Insights for Red Hat Enterprise Linux

```
host0
```



### NOTE

If you configure host name obfuscation on another system, its name uses the same obfuscation values. In the Red Hat Insights for Red Hat Enterprise Linux GUI, you might see multiple systems with the same **hostname** as a result of obfuscation.

### Additional resources

- [Obfuscating the IPv4 address](#)
- [Python SoS Workflow System \(external link\)](#)

## CHAPTER 6. INSIGHTS CLIENT DATA REDACTION

Red Hat Insights for Red Hat Enterprise Linux collects a minimal amount of data, including data that might contain personally identifiable information (PII). To prevent PII (or other configuration data) from being collected, apply data redaction.

### 6.1. INSIGHTS CLIENT DATA REDACTION OPTIONS

The Insights client provides data redaction options. Depending on your version of RHEL, there are two methods for controlling data redaction.

**Table 6.1. Data redaction and RHEL versions**

RHEL Version	Redaction method
RHEL 6.9, 7.8, 8.2, and earlier	Configuration file <b>remove.conf</b>
RHEL 6.10, 7.9, 8.3 and later	YAML files <b>file-redaction.yaml</b> <b>file-content-redaction.yaml</b>



#### NOTE

You must create the **remove.conf** configuration file or the YAML files. They are not installed by default.

#### Additional resources

- For information about how Red Hat Insights for Red Hat Enterprise Linux handles data collection, see [Red Hat Insights Data & Application Security](#) .

### 6.2. USING REMOVE.CONF TO REDACT DATA

When you use a configuration file for data redaction, the contents of the file control which data is redacted, as well as how it is redacted. The default configuration file is **/etc/insights-client/remove.conf**. As an option, you can also configure the Insights client to use a different redaction configuration file.

Based on your entries in the redaction configuration file, you can specify one or more of the following actions:

- Eliminate specific files and their content from data collection
- Eliminate selected command output from data collection
- Eliminate information that matches a pattern
- Substitute specific strings with a default **keyword** string

When you configure redaction by elimination, the redacted information is never recorded in the archive file. Redaction is performed by preprocessing the data before it is captured in the archive file.

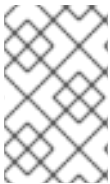
For redaction by string substitution, the archive file is processed by a Python SoS process before it is sent to Red Hat Insights for Red Hat Enterprise Linux.



#### NOTE

The **remove.conf** file does not support regular expression matching.

You can use command line options to control the archive file output. For example, you can generate the archive file, but not send it to Red Hat Insights for Red Hat Enterprise Linux. You can inspect and verify the redaction results before sending the archive.



#### NOTE

When you redact files and command output, that information is not available to compare against the Insights for Red Hat Enterprise Linux rules. These omissions might cause Insights for Red Hat Enterprise Linux to not identify issues that apply to your system.

### 6.2.1. Configuring Insights data redaction using **remove.conf**

The **/etc/insights-client/remove.conf** file controls Insights client data redaction. You must manually create this file.

Use this redaction method if you are running Red Hat Enterprise Linux 6.9, 7.8, 8.2, and earlier.

#### Prerequisites

- Root-level access to your system.

#### Procedure

1. Use an editor to create the **/etc/insights-client/remove.conf** file template.

```
[remove]
files=/etc/cluster/cluster.conf,/etc/hosts
commands=/bin/dmesg,/bin/hostname
patterns=password,username
keywords=super$ecret,ultra$ecret+
```

2. **Optional.** Delete any lines in the file that you do not want to apply to Insights client redaction.
3. Save the file and exit the editor.
4. Use the command line to verify that the **remove.conf** file permissions are set for **root** owner only.

```
[root@insights]# ll remove.conf
-rw-----. 1 root root 145 Sep 25 17:39 remove.conf
```

### 6.2.2. Redacting specific file content

You can use the **remove.conf** file to select specific files to redact. The files that you select and their content are not included in the archive file.

### Prerequisites

- The **/etc/insights-client/remove.conf** file must exist. If you have not already created the **remove.conf** file, create it.
- Root-level access to your system.

### Procedure

1. Open the **/etc/insights-client/remove.conf** file in an editor.

```
[remove]
files=/etc/cluster/cluster.conf,/etc/hosts
commands=/bin/dmesg,/bin/hostname
patterns=password,username
keywords=super$ecret,ultra$ecret+
```

2. On the **files=** line, add or remove the files that you want to redact from the archive file.



#### NOTE

Each file name is separated by a single comma. Do not use spaces.

3. **Optional.** If you do not want to redact any files from the Insights client archive, remove the **files=** line.
4. Save and close the file.

### 6.2.3. Redacting specific commands

You can use the **remove.conf** file to redact specific commands. The output of the redacted commands is not included in the archive file.

### Prerequisites

- The **/etc/insights-client/remove.conf** file must exist. If you have not already created the **remove.conf** file, create it.
- Root-level access to your system.

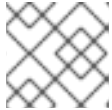
### Procedure

1. Open the **/etc/insights-client/remove.conf** file in an editor.

```
[remove]
files=/etc/cluster/cluster.conf,/etc/hosts
commands=/bin/dmesg,/bin/hostname
patterns=password,username
keywords=super$ecret,ultra$ecret+
```



2. On the **commands=** line, add the commands that you want to redact from the archive file, or remove any that you do not want redacted.

**NOTE**

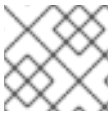
Separate each command with a single comma. Do not use spaces.

3. **Optional.** If you do not want to redact any files from the Insights client archive, remove the **files=** line.
4. Save and close the file.

### 6.2.4. Redacting string patterns

You can use the **remove.conf** file to redact specific string patterns from the archive file.

If you specify a string pattern to redact, the process redacts all the lines in the archive file that contain that pattern. For example, if the string pattern is **name**, that pattern matches and redacts **hostname**, **filename**, **username**.

**NOTE**

Regular expressions and wildcard matching (**egrep**) are not supported.

#### Prerequisites

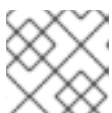
- The **/etc/insights-client/remove.conf** file must exist. If you have not already created the **remove.conf** file, create it.
- Root-level access to your system.

#### Procedure

1. Open the **/etc/insights-client/remove.conf** file in an editor.

```
[remove]
files=/etc/cluster/cluster.conf,/etc/hosts
commands=/bin/dmesg,/bin/hostname
patterns=password,username
keywords=super$ecret,ultra$ecret+
```

2. On the **patterns=** line, add any string patterns that you want to redact from the archive file.

**NOTE**

Separate each string pattern with a single comma. Do not use spaces.

3. **Optional.** If you do not want to redact any patterns from the archive file, remove the **patterns=** line.
4. Save and close the file.

### 6.2.5. Redacting keywords

You can use the **remove.conf** file to redact specific keywords. The Python SoS process replaces the keywords you select with **keyword0**, **keyword1**, **keyword2**, etc., in the archive file.

### Prerequisites

- The **/etc/insights-client/remove.conf** file must exist. If you have not already created the **remove.conf** file, create it.
- Root-level access to your system.

### Procedure

1. Open the **/etc/insights-client/remove.conf** file in an editor.

```
[remove]
files=/etc/cluster/cluster.conf,/etc/hosts
commands=/bin/dmesg,/bin/hostname
patterns=password,username
keywords=super$ecret,ultra$ecret+
```

2. On the **keywords=** line, add any keywords that you want to redact from the archive file.



#### NOTE

Separate each string pattern with a single comma. Do not use spaces.

3. **Optional.** If you do not want to redact any keywords from the archive file, remove the **keywords=** line.
4. Save and close the file.

### 6.2.6. Validating the **remove.conf** file

You can validate the **remove.conf** file to make sure its syntax is correct before using it for redaction.

#### Prerequisites

- The **/etc/insights-client/remove.conf** file must exist. If you have not already created the **remove.conf** file, create it.
- Root-level access to your system.

#### Procedure

1. Enter the **insights-client** command with the **--validate** option.

```
[root@insights]# insights-client --validate
```

2. Correct any errors that the command displays.

## 6.3. USING YAML FILES FOR REDACTION

When you use YAML files for redaction, two files control the redaction actions:

- **file-redaction.yaml**
- **file-content-redaction.yaml**

You can use one or both files, depending on the content you want to redact. When the Python SoS process runs, it redacts the specified content before it can be captured in the archive file.



#### NOTE

Use this redaction method if you are running Red Hat Enterprise Linux 6.10, 7.9, 8.3 and later.

### How the YAML files work

The **/etc/insights-client/file-redaction.yaml** lists commands and files that you want redacted. When the process runs, it redacts the output of the listed commands and files.

The **/etc/insights-client/file-content-redaction.yaml** defines pattern redaction and keyword replacement. For pattern redaction, the process redacts patterns or regular expressions that match those specified in the YAML file. For keyword replacement, the process replaces the specified keywords with generic identifiers.

#### 6.3.1. Configuring the YAML command for file redaction

The **/etc/insights-client/file-redaction.yaml** file lists the commands and system files that you want redacted. When the Python SoS process runs, it does not include the output of the listed commands or files in the uploaded archive file.

#### Prerequisites

- You must be familiar with the basics of YAML syntax. Explaining YAML is beyond the scope of this procedure.
- You must have root-level access to the system.

#### Procedure

1. Use an editor to create the **/etc/insights-client/file-redaction.yaml** file.

#### Example

```
# file-redaction.yaml
---
# Exclude the entire output of commands
# Specify the full command path or the symbolic name in .cache.json

  commands:
  - /bin/rpm -qa
  - /bin/ls
  - ethtool_i

# Exclude the entire output of files
# Specify the full filename path or the symbolic name in .cache.json
```

```
files:
- /etc/audit/auditd.conf
- cluster_conf
```

2. Verify that the **file-redaction.yaml** file permissions are set for **root** owner only.

```
[root@insights]# ll file-redaction.yaml
-rw-----. 1 root root 145 Sep 25 17:39 file-redaction.yaml
```

### 6.3.2. Configuring YAML pattern and keyword redaction

The **/etc/insights-client/file-content-redaction.yaml** file redacts files using two methods: pattern redaction and keyword replacement. Pattern redaction uses either a pattern match or regular expression match. In keyword replacement, a Python SoS process replaces the keyword with a generic identifier.

#### Prerequisites

- You must be familiar with the basics of YAML syntax. Explaining YAML is beyond the scope of this procedure.
- You must have root-level access to the system.

#### Procedure

1. Use an editor to create the **/etc/insights-client/file-content-redaction.yaml** file.

#### Example

```
# file-content-redaction.yaml
---
# Pattern redaction per matching line
# Lines that match a pattern are excluded from files and command output.
# Patterns are processed in the order that they are listed.
# Example

patterns:
- "a_string_1"
- "a_string_2"

# Regular expression pattern redaction per line
# Use "regex:" to wrap patterns with regular expressions"
# Example

patterns:
  regex:
  - "abc.*def"
  - "localhost[[:digit:]]"

# Keyword replacement redaction
# Replace keywords in files and command output with generic identifiers
# Keyword does not support regex
# Example
```

```
keywords:
- "1.1.1.1"
- "My Name"
- "a_name"
```

2. Make sure the **file-content-redaction.yaml** file permissions are set for **root** owner only.

```
[root@insights]# ll file-content-redaction.yaml
-rw-----. 1 root root 145 Sep 25 17:39 file-content-redaction.yaml
```

## 6.4. VERIFYING THE INSIGHTS CLIENT ARCHIVE

You can verify the contents of the archive file. By inspecting the archive file, you can confirm what data is sent to Red Hat Insights for Red Hat Enterprise Linux.

If you use obfuscation or redaction, you can inspect the archive before it is sent. If you want to preserve the archive file, you can keep it on your system.

### 6.4.1. Verifying the archive before uploading

To inspect the archive before the Python SoS script uploads it to Red Hat Insights for Red Hat Enterprise Linux, run Insights client and then save the file without uploading it. This allows you to view the information that the client sends to Insights for Red Hat Enterprise Linux, and to verify your obfuscation or redaction settings.

The archive file is stored in the **/var/tmp/** directory. When **insights-client** completes, it displays the file name.

#### Prerequisites

- If you use redaction, make sure the **/etc/insights-client/remove.conf** file is properly configured.
- If you use obfuscation, make sure the **/etc/insights-client/insights-client.conf** file is properly configured.

#### Procedure

1. Enter the **insights-client** command with the **--no-upload** option.

```
[root@insights]# insights-client --no-upload
```

The command displays informational messages when redaction or obfuscation is applied.

```
WARNING: Excluding data from files
Starting to collect Insights data for ITC-4
WARNING: Skipping patterns found in remove.conf
WARNING: Skipping command /bin/dmesg
WARNING: Skipping command /bin/hostname
WARNING: Skipping file /etc/cluster/cluster.conf
WARNING: Skipping file /etc/hosts
Archive saved at /var/tmp/qsINM9/insights-ITC-4-20190925180232.tar.gz
```

2. Navigate to the temporary storage directory as shown in the **Archive saved at** message.

-

```
[root@insights]# cd /var/tmp/qsINM9/
```

3. Unpack the compressed **tar.gz** file.

```
[root@insights]# tar -xzf insights-ITC-4-20190925180232.tar.gz
```

The script creates a new directory that contains the files.

## 6.4.2. Verifying the Insights client archive after uploading

To keep a copy of the archive for inspection after the Python SoS script uploads it to Red Hat Insights for Red Hat Enterprise Linux, run **insights-client** and then save the file. This allows you to verify the information that the client sends to Insights for Red Hat Enterprise Linux, and to verify your obfuscation or redaction settings.

### Prerequisites

- If you use redaction, make sure the **/etc/insights-client/remove.conf** file is properly configured.
- If you use obfuscation, make sure the **/etc/insights-client/insights-client.conf** file is properly configured.

### Procedure

1. Enter the **insights-client** command with the **--keep-archive** option.

```
[root@insights]# insights-client --keep-archive
```

The command displays informational messages.

```
Starting to collect Insights data for ITC-4
Uploading Insights data.
Successfully uploaded report from ITC-4 to account 6229994.
Insights archive retained in /var/tmp/ozM8bY/insights-ITC-4-20190925181622.tar.gz
```

2. Navigate to the temporary storage directory displayed in the **Insights archive retained in** message.

```
[root@insights]# cd /var/tmp/ozM8bY/
```

3. Unpack the compressed **tar.gz** file.

```
[root@insights]# tar -xzf insights-ITC-4-20190925181622.tar.gz
```

The script creates a new directory that contains the files.

## CHAPTER 7. SYSTEM FILTERING AND GROUPS

Red Hat Insights for Red Hat Enterprise Linux enables you to filter systems in inventory, as well as by individual service. Insights for Red Hat Enterprise Linux also allows you to filter groups of systems by three criteria:

- Groups running SAP workloads
- Satellite host groups
- Custom filters that you define in a YAML file



### NOTE

As of Spring 2022, inventory, advisor, compliance, vulnerability, patch, drift, and policies enable filtering by groups and tags. Other services will follow.

Use the global **Filter Results** box to filter by SAP workloads, Satellite host groups, or custom filters added to the Insights client configuration and file filters added to the Insights client configuration file.

### Prerequisites

- The Insights client is installed and registered on each system.
- Root-level permissions on the system.

## 7.1. SAP WORKLOADS

As Linux becomes the mandatory operating system for SAP ERP workloads in 2025, Red Hat Enterprise Linux and Red Hat Insights for Red Hat Enterprise Linux are working to make Insights for Red Hat Enterprise Linux the management tool of choice for SAP administrators.

As part of this ongoing effort, Insights for Red Hat Enterprise Linux automatically tags systems running SAP workloads and by SAP ID (SID), without any customization needed by administrators. To filter those workloads throughout the Insights for Red Hat Enterprise Linux application, use the global **Filter Results** drop-down menu.

## 7.2. SATELLITE HOST GROUPS

Satellite host groups are configured in Satellite and automatically recognized by Insights for Red Hat Enterprise Linux.

## 7.3. CUSTOM SYSTEM TAGGING

You can apply custom grouping and tagging to your systems. This enables you to add contextual markers to individual systems, filter by those tags in the Insights for Red Hat Enterprise Linux application, and more easily focus on related systems. This functionality can be especially valuable when deploying Insights for Red Hat Enterprise Linux at scale, with many hundreds or thousands of systems under management.

In addition to the ability to add custom tags to several Insights for Red Hat Enterprise Linux services, you can add predefined tags. The advisor service can use these tags to create targeted recommendations for your systems that might require more attention, such as those systems that

require a higher level of security.

### 7.3.1. Filter structure

Filters use a **namespace=value** or **key=value** paired structure.

- **Namespace.** The namespace is the name of the ingestion point, *insights-client*. This value cannot be changed. The **tags.yaml** file is abstracted from the namespace, which is injected by the client before upload.
- **Key.** You can create the key or use a predefined key from the system. You can use a mix of capitalization, letters, numbers, symbols and whitespace.
- **Value.** You can define your own descriptive string value. You can use a mix of capitalization, letters, numbers, symbols and whitespace.

### 7.3.2. Creating a custom group and the tags.yaml file

To create and add tags to `/etc/insights-client/tags.yaml`, use **insights-client** with the **--group=<name-you-choose>** option. This command option performs the following actions:

- Creates the **etc/insights-client/tags.yaml** file
- Adds the **group=** key and **<name-you-choose>** value to **tags.yaml**
- Uploads a fresh archive from the system to the Insights for Red Hat Enterprise Linux application making the new tag immediately visible along with your latest results

#### Prerequisites

- Root-level access to your system.

#### Procedure

1. Run the following command as root, adding your custom group name in place of **<name-you-choose>**:

```
[root@server ~]# insights-client --group=<name-you-choose>
```

2. **Optional.** To add additional tags, edit the `/etc/insights-client/tags.yaml` file.
3. Navigate to [Inventory > Systems](#) and log in if necessary.
4. Click the **Filter by tags** drop-down menu. You can also use the search box to enter all or part of the tag's name to automatically show systems with that text in the tags.
5. Scroll up or down the list to locate the tag.
6. Click the tag to filter by it.
7. Verify that your system is among the results on the advisor systems list.
  - a. Navigate to [Inventory > Systems](#) and log in if necessary.
  - b. Activate the **Name** filter and begin typing the system name until you see your system, then select it.



- c. The tag symbol is a darker color, and the number beside it shows the correct number of tags applied.

### 7.3.3. Editing tags.yaml to add or change tags

After you create the **group** tag, you can edit the contents of **tags.yaml** to add or modify tags.

The following procedure shows how to edit the `/etc/insights-client/tags.yaml` file, then verify the tag exists in the [Red Hat Insights > RHEL > Inventory](#).

#### Prerequisites

- Root-level access to your system.

#### Procedure

1. Open the tag configuration file, **tags.yaml**, in an editor.

```
[root@server ~]# vim /etc/insights-client/tags.yaml
```

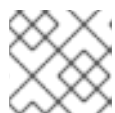
2. Edit the file contents or add additional **key=value** pairs. Add additional **key=value** pairs if needed. Use a mix of capitalization, letters, numbers, symbols, and whitespace. The following example shows how to organize **tags.yaml** when adding more than one tag to a system.

```
# tags
---
group: _group-name-value_
location: _location-name-value_
description:
- RHEL8
- SAP
key 4: value
```

3. Save your changes and close the editor.
4. Generate an upload to Insights for Red Hat Enterprise Linux.

```
[root@server ~]# insights-client
```

5. Navigate to [Inventory > Systems](#) and log in if necessary.
6. In the **Filter Results** box, click the down arrow and select one of the filters or enter the name of the filter and select it.



#### NOTE

You can search by the tag key or by its value.

7. Find your system among the results.
8. Verify that the filter icon is darkened and shows a number representing the number of filters applied to the system.

## 7.4. USING PREDEFINED SYSTEM TAGS TO GET MORE ACCURATE RED HAT INSIGHTS ADVISOR SERVICE RECOMMENDATIONS AND ENHANCED SECURITY

Red Hat Insights advisor service recommendations treat every system equally. However, some systems might require more security than others, or require different networking performance levels. In addition to the ability to add custom tags, Red Hat Insights for Red Hat Enterprise Linux provides predefined tags that the advisor service can use to create targeted recommendations for your systems that might require more attention.

To opt in and get the extended security hardening and enhanced detection and remediation capabilities offered by predefined tags, you need to configure the tags. After configuration, the advisor service provides recommendations based on tailored severity levels, and preferred network performance that apply to your systems.

To configure the tags, use the `/etc/insights-client/tags.yaml` file to tag systems with predefined tags in a similar way that you might use it to tag systems in the inventory service. The predefined tags are configured using the same **key=value** structure used to create custom tags. Details about the Red Hat-predefined tags are in the following table.

**Table 7.1. List of Supported Predefined Tags**

Key	Value	Note
security	<b>normal</b> (default) / <b>strict</b>	With the <b>normal</b> (default) value, the advisor service compares the system's risk profile to a baseline derived from the default configuration of the most recent version of RHEL and from often-used usage patterns. This keeps recommendations focused, actionable, and low in numbers. With the <b>strict</b> value, the advisor service considers the system to be security-sensitive, causing specific recommendations to use a stricter baseline, potentially showing recommendations even on fresh up-to-date RHEL installations.
<b>network_performance</b>	<b>null</b> (default) / <b>latency</b> / <b>throughput</b>	The preferred network performance (either latency or throughput according to your business requirement) would affect the severity of an advisor service recommendation to a system.



## NOTE

The predefined tag keys names are reserved. If you already use the key **security**, with a value that differs from one of the predefined values, you will not see a change in your recommendations. You will only see a change in recommendations if your existing **key=value** is the same as one of the predefined keys. For example, if you have a **key=value** of **security: high**, your recommendations will not change because of the Red Hat-predefined tags. If you currently have a **key=value** pair of **security: strict**, you will see a change in the recommendations for your systems.

### Additional resources

- [Using system tags to enable extended security hardening recommendations](#)
- [Leverage tags to make Red Hat Insights Advisor recommendations understand your environment better](#)
- [Custom system tagging](#)

### 7.4.1. Configuring predefined tags

You can use the Red Hat Insights for Red Hat Enterprise Linux advisor service's predefined tags to adjust the behavior of recommendations for your systems to gain extended security hardening and enhanced detection and remediation capabilities. You can configure the predefined tags by following this procedure.

#### Prerequisites

- You have root-level access to your system
- You have Insights client installed
- You have systems registered within the Insights client
- You have already created the **tags.yaml** file. See [Creating a tags.yaml file and adding a custom group](#)

#### Procedure

1. Using the command line, and your preferred editor, open **/etc/insights-client/tags.yaml**. (The following example uses Vim.)

```
[root@server ~]# vi /etc/insights-client/tags.yaml
```

2. Edit the **/etc/insights-client/tags.yaml** file to add the predefined **key=value** pair for the tags. This example shows how to add **security: strict** and **network\_performance: latency** tags.

```
# cat /etc/insights-client/tags.yaml
group: redhat
location: Brisbane/Australia
description:
- RHEL8
- SAP
security: strict
network_performance: latency
```

3. Save your changes.
4. Close the editor.
5. **Optional:** Run the **insights-client** command to generate an upload to Red Hat Insights for Red Hat Enterprise Linux, or wait until the next scheduled Red Hat Insights upload.

```
[root@server ~]# insights-client
```

## Confirming that predefined tags are in your production area

After generating an upload to Red Hat Insights (or waiting for the next scheduled Insights upload), you can find out whether the tags are in the production environment by accessing [Red Hat Insights > RHEL > Inventory](#). Find your system and look for the newly created tags. You see a table that shows:

- Name
- Value
- Tag Source (for example, insights-client).

The following image shows an example of what you see in inventory after creating the tag.

Name	Value	Tag source
group	redhat	insights-client
location	Brisbane/Australia	insights-client
security	strict	insights-client
description	RHEL8	insights-client
description	SAP	insights-client
network_performance	latency	insights-client

## Example of recommendations after applying a predefined tag

The following image of the advisor service shows a system with the **network\_performance: latency** tag configured.

Name	Modified	Category	Total risk	Risk of change	Syste...	Remediation
NICs on Azure VMs encounter high network latency issue due to a known issue in the NETVSC driver	24 days ago	Performance	Important	Moderate	1	Playbook
NICs on Azure VMs encounter network performance issue due to a known issue in the NETVSC driver	2 years ago	Performance	Moderate	Moderate	1	Playbook

The system shows a recommendation with a higher Total Risk level of Important. The system without the **network\_performance: latency** tag has a Total Risk of Moderate. You can make decisions about prioritizing the system with higher Total Risk.

## CHAPTER 8. CHANGING THE INSIGHTS-CLIENT SCHEDULE

You can disable, enable, and modify the schedule that controls when the Insights client runs. By default, the Insights client runs every 24 hours. The timers in the default schedules vary so that all systems do not run the client at the same time.

### 8.1. DISABLING THE INSIGHTS CLIENT SCHEDULE

You must disable the client schedule before you can change the default Insights client settings and create a new schedule.

The procedure you use to disable the **insights-client** schedule depends on your Red Hat Enterprise Linux and client versions.

#### Additional resources

- [KCS article about creating custom schedules](#)
- [KCS article about \*\*cron\*\*](#)

#### 8.1.1. Disabling the client schedule on RHEL 7.4 and earlier with Client 1.x



#### NOTE

Client 1.x is no longer supported.



#### NOTE

The **--no-schedule** option is deprecated in Client 3.x and later.

#### Prerequisites

- Root-level access to your system.

#### Procedure

1. Enter the **insights-client** command with the **--version** option to verify the client version.

```
[root@insights]# insights-client --version
Client: 1.0.2-0
Core: 1.0.76-1
```

2. Enter the **insights-client** command with the **--no-schedule** option to disable the client schedule. This command removes the symbolic link in **/etc/cron.daily**.

```
[root@insights]# insights-client --no-schedule
```

3. Open the **/etc/insights-client/insights-client.conf** file with an editor and add the following line.

```
no_schedule=True
```

## 8.1.2. Disabling the client schedule for RHEL 7.5 and later with Insights client 1.x



### NOTE

Insights client 1.x is no longer supported.



### NOTE

The **--no-schedule** option is deprecated in Insights client 3.x and later.

### Prerequisites

- Root-level access to your system.

### Procedure

1. Enter the **insights-client** command with the **--version** option to verify the client version.

```
[root@insights]# insights-client --version
Client: 1.0.2-0
Core: 1.0.76-1
```

2. Enter the **insights-client** command with the **--no-schedule** option to disable the client schedule.

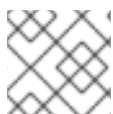
```
[root@insights]# insights-client --no-schedule
```

## 8.1.3. Disabling the client schedule for RHEL 6, RHEL 7 and later with Client 3.x



### NOTE

Client 1.x is no longer supported.



### NOTE

The **--no-schedule** option is deprecated in Client 3.x and later.

### Prerequisites

- Root-level access to your system.

### Procedure

1. Enter the **insights-client** command with the **--version** option to verify the client version.

```
[root@insights]# insights-client --version
Client: 3.0.6-0
Core: 3.0.121-1
```

2. Enter the **insights-client** command with the **--disable-schedule** option to disable the client schedule.

```
[root@insights]# insights-client --disable-schedule
```

## 8.2. ENABLING THE INSIGHTS CLIENT SCHEDULE

When you first enable the client schedule, it runs using its default settings. If you make changes to the schedule, those settings take precedence.

When you run **insights-client** from the command line, Insights client runs using the settings you specify for only that session. When the next scheduled run takes place, it uses the default settings.

### 8.2.1. Enabling the Insights client schedule on RHEL 7.4 or earlier and Client 1.x

You can enable the client schedule so that it runs on its default settings. If you change the default schedule settings, the changed settings take precedence.

#### Prerequisites

- Root-level access to your system.
- The client schedule is disabled.
- (Optional) You modified the default schedule.

#### Procedure

1. To verify the client version, enter the **insights-client** command with the **--version** option.

```
[root@insights]# insights-client --version
Client: 1.0.2-0
Core: 1.0.76-1
```

2. Open the **/etc/insights-client/insights-client.conf** file with an editor. Add the following line to the file. If your configuration file already has a value for **no\_schedule**, change it to **False**.

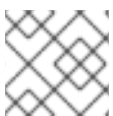
```
no_schedule=False
```

3. Enter the **insights-client** command with the **--register** option to enable the client.

```
[root@insights]# insights-client --register
```

### 8.2.2. Enabling the Insights client schedule on RHEL 7.5 or later and Client 1.x

You can enable the client schedule so that it runs on its default settings. If you change the default schedule settings, the changed settings take precedence.



#### NOTE

Client 1.x is no longer supported.

#### Prerequisites

- Root-level access to your system.



- The client schedule is disabled.
- (Optional) You modified the default schedule.

### Procedure

1. To verify the client version, enter the **insights-client** command with the **--version** option.

```
[root@insights]# insights-client --version
Client: 1.0.2-0
Core: 1.0.76-1
```

2. Enter the **insights-client** command with the **--register** option to enable the client schedule.

```
[root@insights]# insights-client --register
```

### 8.2.3. Enabling the Insights client schedule on RHEL 7 or later and Client 3.x

You can enable the client schedule so that it runs on its default settings. If you change the default schedule settings, the changed settings take precedence.

#### Prerequisites

- Root-level access to your system.
- The client schedule is disabled.
- (Optional) You modified the default schedule.

### Procedure

1. To verify the client version, enter the **insights-client** command with the **--version** option.

```
[root@insights]# insights-client --version
Client: 3.0.6-0
Core: 3.0.121-1
```

2. Enter the **insights-client** command with the **--enable-schedule** option to enable the client schedule.

```
[root@insights]# insights-client --enable-schedule
```

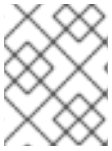
## 8.3. MODIFYING THE INSIGHTS CLIENT SCHEDULE

To change when the Insights client runs, modify the schedule. The method that you use depends on the RHEL release and client version that your system is running.

Select the procedure that matches your version of RHEL.

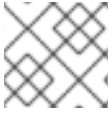
- For Red Hat Enterprise Linux 7.4 and earlier, use **cron** to modify the system schedule.
- For Red Hat Enterprise Linux 7.5 and later, update the **systemd** settings and the **insights-client-timer** file.

### 8.3.1. Scheduling the Insights client with cron



#### NOTE

Use this procedure for systems running RHEL 7.4 releases and earlier with Client version 1.x.



#### NOTE

Client 1.x is no longer supported.

To change the default schedule for running **insights-client**, update a system **cron** file.

In Red Hat Enterprise Linux, the **/etc/crontab** file automatically executes scripts in several subdirectories at regular periods.

```
/etc/cron.hourly
/etc/cron.daily
/etc/cron.weekly
/etc/cron.monthly
```

#### Prerequisites

- Root-level access to your system.
- The Insights client schedule is disabled.

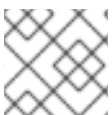
#### Procedure

1. Select a schedule and set up **cron** to execute **insights-client** on it.
2. Enable the **insights-client** schedule when you finish making changes.

#### Additional resources

- Review the man pages for **crontab(1)** and **cron(8)** to understand the **cron** dependencies.
- [What is cron and how is it used?](#)

### 8.3.2. Scheduling insights-client using systemd settings



#### NOTE

Use this for systems running RHEL 7.5 and later with Client 3.x.

You can change the default schedule for running **insights-client** by updating the system **systemd** settings and the **insights-client.timer** file.

#### Prerequisites

- Root-level access to your system.

## Procedure

1. To edit the settings in the **insights-client.timer** file, enter the **systemctl edit** command and the file name.

```
[root@insights]# systemctl edit insights-client.timer
```

This action opens an empty file with the default system editor.

2. Enter different settings to modify the schedule. The values in this example are the default settings for **systemd**.

```
[Timer]
OnCalendar=daily
RandomizedDelaySec=14400
```

3. Enable the **insights-client** schedule.

```
[root@insights]# insights-client --enable-schedule
```

## Additional resources

- Review the man pages for **systemctl(1)**, **systemd.timer(5)**, and **systemd.time(7)** to understand **systemd**
- [What is cron and how is it used?](#)

### 8.3.3. Refreshing the package cache for systems managed by Red Hat Satellite

Insights now provides the optional **--build-packagecache** command to provide accurate reporting for applicable updates on Satellite-managed systems. This option rebuilds the **yum/dnf** package caches for **insights-client**, and creates a refreshed list of applicable updates for the system.

You can run the command manually to rebuild the package caches immediately, or you can edit the client configuration file (**/etc/insights-client/insights-client.conf**) to rebuild the package caches automatically each time the system checks in to Insights.

## Additional resources

- For more information about how to run the **--build-packagecache** command, see [System Patching using Remediation Playbooks](#).
- For more information about the **--build-packagecache** options, see the following KCS article: <https://access.redhat.com/solutions/7041171>
- For more information about managing errata in Red Hat Satellite, see [Managing content](#).

## CHAPTER 9. ENABLING AND DISABLING AUTOMATIC RULE UPDATES FOR INSIGHTS

By default, automatic collection rule updates are enabled for Insights. You can edit the client configuration file to disable them or re-enable them.

### 9.1. DISABLING AUTOMATIC RULE UPDATES FOR INSIGHTS

You can disable the automatic collection rule updates for Red Hat Insights for Red Hat Enterprise Linux. If you do so, you risk using outdated rule definition files and not getting the most recent validation updates.

#### Prerequisites

- Root-level access to your system.
- Automatic rule updates are enabled.

#### Procedure

1. Open the `/etc/insights-client/insights-client.conf` file with an editor.

2. Locate the line that contains

```
#auto_update=True
```

3. Remove the `#` and change **True** to **False**.

```
auto_update=False
```

4. Save and close the `/etc/insights-client/insights-client.conf` file.

### 9.2. ENABLING AUTOMATIC RULE UPDATES FOR INSIGHTS

You can re-enable the automatic collection rule updates for Red Hat Insights for Red Hat Enterprise Linux, if you previously disabled updates. By default, automatic rule update is enabled.

#### Prerequisites

- Root-level access to your system.
- Automatic rule collection is disabled.

#### Procedure

1. Open the `/etc/insights-client/insights-client.conf` file with an editor.

2. Locate the line that contains

```
auto_update=False
```

3. Change **False** to **True**.

```
| auto_update=True
```

4. Save and close the the **/etc/insights-client/insights-client.conf** file.

## CHAPTER 10. CREATING A DIAGNOSTIC LOG FOR SUPPORT

If you need help from the Red Hat support team, you can create and share diagnostic log files. These log files can help the support team to troubleshoot issues with **insights-client**.

### 10.1. CREATING A DIAGNOSTIC LOG

You can create a diagnostic log to share with the support team.

#### Prerequisites

- Root-level access to your system.

#### Procedure

1. Enter the **insights-client** command with the **--support** option.

```
[root@insights]# insights-client --support
```

The command displays informational messages while creating the support file.

```
Collecting logs...
Insights version: insights-core-3.0.121-1
Registration check:
status: True
unreachable: False
. . . .
Copying Insights logs to archive...
Support information collected in /var/tmp/H_Y43a/insights-client-logs-20190927144011.tar.gz
```

2. Navigate to the collection directory as shown in the **Support information collected in** message.

```
[root@insights]# cd /var/tmp/H_Y43a
```

3. Unpack the compressed **tar.gz** file.

```
[root@insights]# tar -xzf insights-client-logs-20190927144011.tar.gz
```

Unzipping the **tar.gz** file produces a new directory containing the log files. You can share the **tar.gz** file with the support team if requested.

## APPENDIX A. COMMAND OPTIONS FOR INSIGHTS-CLIENT

As a system administrator with root privileges, you can use the **insights-client** command and its options to control the Insights client operation on your system. Because the **insights-client.rpm** is updated less frequently than individual components in Insights for Red Hat Enterprise Linux, the man page might not include the most recent information about **insights-client**.

Each time you enter the **insights-client** command, the client collects data and sends it to Insights for Red Hat Enterprise Linux.



### NOTE

Using the **insights-client --display-name** command to set the display name takes effect immediately, but does not run the Insights client.

## A.1. OPTIONS FOR THE INSIGHTS CLIENT

Table A.1. **insights-client** user command options

Option	Description
<b>--help</b> <b>-h</b>	Display help information
<b>--register</b>	Register the host to Insights for Red Hat Enterprise Linux using the information in <b>/etc/hostname</b> . Will automatically enable the nightly cron job unless <b>--disable-schedule</b> is set.
<b>--unregister</b>	Unregister the host from Insights for Red Hat Enterprise Linux.
<b>--display-name=DISPLAY_NAME</b>	Set or change the host display name in the GUI. Use with <b>--register</b> to set a <code>display_name</code> when the host is registered if you want a different name than is in <b>/etc/hostname</b> .
<b>--group=GROUP</b>	Add host to GROUP during registration. Group names are defined in <b>/etc/insights-client/tags.yaml</b>
<b>--retry=RETRIES</b>	Set the number of times to retry an upload. The default is 1. The retry interval is 180 seconds, which is how long the Insights client waits until retrying the upload.  NOTE: In the scheduler, the number of retries is 3.
<b>--validate</b>	Validate the structure of the <b>/etc/insights-client/remove.conf</b> file.

Option	Description
<b>--quiet</b>	Only log error messages to console.
<b>--silent</b>	Log nothing to console.
<b>--enable-schedule</b>	Enable the job schedule. By default, the Insights client runs daily, at or near midnight.  NOTE: If you are using Client 1.x, use the <b>--register</b> option to enable the schedule.
<b>--disable-schedule</b>	Disable the nightly job schedule.
<b>--conf=CONF</b> <b>-c=CONF</b>	Use a custom configuration file CONF instead of the default <b>/etc/insights-client/insights-client.conf</b> file.
<b>--compressor</b>	Select the compressor that is used when creating the archive. Available options are <b>gz</b> , <b>bz2</b> , <b>xz</b> , <b>none</b> . Defaults to <b>gz</b> . The <b>none</b> option creates a tar file with no compression.
<b>--no-upload</b>	Runs the client but does not upload the archive to Red Hat Insights for Red Hat Enterprise Linux or CMSfR web application. The archive is stored in the <b>/var/tmp/</b> directory. The file name is displayed when <b>insights-client</b> completes.
<b>--offline</b>	Run the client without using network functionality. Implies <b>--no-upload</b> .
<b>--logging-file=LOGFILE</b>	Output the log data to the specified LOGFILE. The default log file is <b>/var/log/insights-client/insights-client.log</b> .
<b>--diagnosis</b>	Fetch diagnostic information from the API. The system must be registered and uploaded at least once before using <b>--diagnosis</b> .
<b>--compliance</b>	Scan the system with OpenSCAP and upload the report.
<b>--payload=PAYLOAD</b>	Upload a specific archive PAYLOAD file to Red Hat Insights for Red Hat Enterprise Linux. Requires <b>--content-type</b> .
<b>--content-type=TYPE</b>	Set the content-type for the PAYLOAD file. Type can be <b>gz</b> , <b>bz2</b> , <b>xz</b> , and <b>none</b> . The TYPE must match the <b>--compressor</b> used with the PAYLOAD.



Option	Description
<b>--check-results</b>	Retrieve analysis results from Red Hat Insights for Red Hat Enterprise Linux.
<b>--show-results</b>	Display analysis results fetched by <b>--check-results</b> .
<b>--output-dir=DIR</b>	Write collection to a specified directory instead of uploading.
<b>--output-file=FILE</b>	Write collection to a specified archive instead of uploading.

The **insights-client** command has several options that are useful when debugging its operation.

Table A.2. **insights-client** debug options

Option	Description
<b>--version</b>	Print the versions of <b>insights-client</b> Client and Core.
<b>--test-connection</b>	Test connectivity to the Red Hat Insights for Red Hat Enterprise Linux services.
<b>--force-reregister</b>	This option is being deprecated. To re-register your system, see <a href="#">Re-registering your system with Red Hat Insights</a> .
<b>--verbose</b>	Log all debug output to the console.
<b>--no-upload</b>	Runs the client but does not upload the archive. The archive is stored in the <b>/var/tmp/</b> directory. The file name is displayed when <b>insights-client</b> completes.
<b>--keep-archive</b>	Keep the archive after uploading.
<b>--support</b>	Generate a diagnostic log for support.
<b>--status</b>	Display host registration status.
<b>--net-debug</b>	Log network calls to the console.

## APPENDIX B. OPTIONS FOR THE REDACTION CONFIGURATION FILE

The configuration file `/etc/insights-client/remove.conf` controls how the Insights for Red Hat Enterprise Linux client redacts data.



### NOTE

As of RHEL RHEL 6.10, 7.9, 8.3 and later, using `remove.conf` is deprecated and replaced by two YAML files.

The Insights client performs redaction on the archive file based on the information in `remove.conf`. Most redaction activity occurs before the archive file is generated and sent to the Red Hat Insights for Red Hat Enterprise Linux service.

### B.1. OPTIONS FOR THE INSIGHTS CLIENT REDACTION FILE

#### File name and location

The suggested name is `/etc/insights-client/remove.conf` for the redaction configuration file. You must have root permission in order to create this file. It is not created automatically as part of the Insights client deployment.



### NOTE

The `/etc/insights-client/insights-client.conf` configuration file specifies the name and location of the redaction configuration file.

#### File template for `remove.conf`

The following is an example template for the `remove.conf` file:

```
[remove]
files=/etc/cluster/cluster.conf,/etc/hosts
commands=/bin/dmesg,/bin/hostname
patterns=password,username
keywords=super$secret,ultra$secret+
```

- A single comma with no space separates each entered value.
- Do not include the line for data you do not want redacted.
- Regular expressions and wildcard matching (`egrep`) are not supported.
- All entries are case-sensitive.

Table B.1. `remove.conf` configuration options

Option	Description
<code>[remove]</code>	This must be the first line of the <code>remove.conf</code> file.

Option	Description
<b>files=</b>	The listed files are excluded from data collecting.
<b>commands=</b>	The output from commands listed here is excluded from data collecting. The command names must exactly match the command names in the <a href="#">collection rules</a> .
<b>patterns=</b>	Any line in the archive file that matches all or part of a <b>pattern</b> is deleted.
<b>keywords=</b>	<p>The keyword is replaced with an actual value of <b>keyword</b> and a number.</p> <p>For example, if you define two keywords, <b>keywords=host, domain</b>, each instance of <b>host</b> is replaced with the string <b>keyword0</b> and each instance of <b>domain</b> is replaced with <b>keyword1</b>. Each additional keyword you define is replaced with an incremental <b>keywordn</b>.</p>

## APPENDIX C. OPTIONS FOR THE REDACTION CONFIGURATION YAML FILES



### NOTE

As of RHEL RHEL 6.10, 7.9, 8.3 and later, Insights client uses YAML files to configure redaction. In earlier releases, the **remove.conf** file controls redaction.

### C.1. OPTIONS FOR THE REDACTION CONFIGURATION YAML FILES



### NOTE

As of RHEL RHEL 6.10, 7.9, 8.3 and later, Insights client uses YAML files to configure redaction. In earlier releases, the **remove.conf** file controls redaction.

Table C.1. File redaction example for `file-redaction.yaml`

Content	Description
<pre># file-redaction.yaml ---</pre>	An optional comment containing the file name.
<pre># Exclude the entire output of commands # Specify the full command path or the symbolic name in .cache.json  commands: - /bin/rpm -qa - /bin/ls - ethtool_i</pre>	<p>The entire output from <b>/bin/rpm -qa</b> and <b>bin/ls</b> are excluded from the archive file.</p> <p>In the <b>.cache.json</b> file, the full command <b>/sbin/ethtool -i</b> is mapped to the symbolic name <b>ethtool_i</b>.</p>
<pre># Exclude the entire output of files # Specify the full filename path or the symbolic name in .cache.json  files: - /etc/audit/auditd.conf - cluster_conf</pre>	<p>For the specified files, the file name and the file content are excluded from the archive file.</p> <p>In the <b>.cache.json</b> file, the full file path <b>/etc/cluster/cluster.conf</b> is mapped to the symbolic name <b>cluster_conf</b>.</p>

Table C.2. Content redaction example for `file-content-redaction.yaml`

Content	Description
<pre># file-content-redaction.yaml ---</pre>	<p>An optional comment containing the file name.</p>
<pre># Pattern redaction per matching line # Lines that match a pattern are excluded from files and command output. # Patterns are processed in the order that they are listed. # Example  patterns: - "a_string_1" - "a_string_2"</pre>	<p>When the patterns match exactly any lines that contain <b>a_string_1</b> or <b>a_string_2</b> are excluded from files and command output. Enclose the pattern string in quotes.</p>
<pre># # Regular expression pattern redaction per line # Patterns with regular expressions (regex) are wrapped with "regex:" # Example  patterns:   regex:   - "abc.*def"   - "localhost[[:digit:]]" #</pre>	<p>Regular expressions are wrapped with <b>regex</b>. You can use any regular expression (regex) recognized by the <b>egrep</b> command. Enclose the regex in quotes.</p>
<pre># Lines matching these regular expressions are excluded # from output. patterns:   regex:   - "*\.conf"   - "^include"</pre>	<p>The <b>egrep</b> expressions are enclosed in quotes to make sure the regex characters are properly recognized.</p> <p>In this example, lines are redacted from the archive file if any string contains <b>.conf</b> or if any line begins with <b>include</b>.</p>

Content	Description
<pre># Replace keywords in files and command output with generic identifiers by the Python soscleaner module keywords: - "1.1.1.1" - "My Name" - "a_name"</pre>	<p>The strings in the <b>keywords:</b> array are replaced with the actual value <b>keyword</b> and a number.</p> <p>For example, each instance of the string <b>1.1.1.1</b> is replaced with <b>keyword0</b>. All instances of the string <b>My Name</b> are replaced with <b>keyword1</b>. The <b>a_name</b> is replaced with <b>keyword3</b> Each additional keyword you define is replaced with an incremental <b>keywordn</b> The value of the substituted <b>keywordn</b> is determined by a Python SoS process and cannot be changed.</p> <p>The strings that you define in the <b>keywords:</b> array are case sensitive.</p>

## APPENDIX D. COMMAND OPTIONS FOR INSIGHTS-CLIENT

You can use the settings in the `/etc/insights-client/insights-client.conf` configuration file to change how the Insights client operates on your system.

### D.1. OPTIONS FOR THE INSIGHTS CLIENT CONFIGURATION FILE

When the configuration file and the CLI have similar options, the CLI option is executed when you enter the **insights-client** command. When the scheduler runs the client, the configuration file options are executed.




#### NOTE

You must enter the choices exactly as shown. **True** and **False** use initial capital letters.

To enable an option in the configuration file, remove the **#** as the first character of the line and provide a value for the option. The changes take effect either at the next scheduled run, or when you enter the **insights-client** command.

Table D.1. **insights-client.conf** configuration options

Option	Description
<code>[insights-client]</code>	Required first line of the configuration file, even if you specify a different location or name for the client configuration file.
<code>#loglevel=DEBUG</code>	Change the log level. Options are: DEBUG, INFO, WARNING, ERROR, CRITICAL. The default is DEBUG. The default log file location is <b>/var/log/insights-client/insights-client.log</b> .
<code>#auto_config=True</code>	Attempt to auto configure with Satellite server. Values can be <b>True</b> (default) or <b>False</b> .   <b>NOTE</b> When <b>auto_config=True</b> (default), the authentication method used is <b>CERT</b> .
<code>#authmethod=CERT</code>	Set the authentication method. Valid option is CERT. The default value is CERT.
<code>#username=</code>	<b>username</b> to use when authmethod is BASIC. The <b>username</b> is stored in clear text.
<code>#password=</code>	<b>password</b> to use when authmethod is BASIC. The <b>password</b> is stored in clear text.

Option	Description
#base_url=cert-api.access.redhat.com:443/r/insights	Base URL for the API.
#proxy=	URL for your proxy. Example: <a href="http://user:pass@192.168.100.50:8080">http://user:pass@192.168.100.50:8080</a>
#auto_update=True	Automatically update the dynamic configuration. The default is <b>True</b> . Change to <b>False</b> if you do not want to automatically update.
#obfuscate=False	Obfuscate IPv4 addresses. The default is <b>False</b> . Change to <b>True</b> to enable address obfuscation.
#obfuscate_hostname=False	Obfuscate hostname. You must set <b>obfuscate=True</b> to obfuscate the host name, which enables IPv4 address obfuscation. You cannot obfuscate only the host name.
#display_name=	Display name for registration. The default is to use <b>/etc/hostname</b> . NOTE: This value interacts with the <b>insights-client --display-name</b> command. If you use the CLI to change the display name but a different display name is enabled in the configuration file, the display name reverts to the configuration file value when the scheduler runs the Insights client.
#cmd_timeout=120	Timeout for commands run during collection, in seconds. The command processes are terminated when the timeout value is hit.
#http_timeout=120	Timeout for HTTP calls, in seconds
#remove_file=/etc/insights-client/remove.conf	Location of redaction file  <a href="#">Insights client may prevent processes from initializing real-time scheduling.</a>



# PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

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1. Click the following link: [Create Issue](#)
2. Describe the issue or enhancement in the **Summary** text box.
3. Provide details about the issue or requested enhancement in the **Description** text box.
4. Type your name in the **Reporter** text box.
5. Click the **Create** button.

This action creates a documentation ticket and routes it to the appropriate documentation team. Thank you for taking the time to provide feedback.