Managing Snap Creator Agent

Snap Creator Framework

NetApp
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Managing Snap Creator Agent

You can start, verify, and stop Snap Creator Agent, change the Agent port, and manage Agent security on your Windows and UNIX systems.

Starting, verifying, and stopping Snap Creator Agent on Windows

You can start and stop the Snap Creator Agent service, and verify whether the Snap Creator Agent service is running on your Windows system.

1. From the command prompt, start or stop the Snap Creator Agent service, or verify whether the Snap Creator Agent service is running, as applicable:

If you want to…	Enter the following…
Start the Snap Creator Agent service	sc start snapcreatoragentservice
Verify whether the Snap Creator Agent service is running	sc query snapcreatoragentservice
Stop the Snap Creator Agent service	sc stop snapcreatoragentservice

   If you want to run Snap Creator in the foreground, then instead of using the sc start command, perform the following steps:

   a. Open a command prompt on the host where the Snap Creator Agent is installed, and then navigate to the Snap Creator Agentdirectory: cd `\install_path\scAgent4.3.0\bin\`

   b. To start the Snap Creator Agent service, run the batch script: scAgent.bat start

      Closing the command prompt stops the Snap Creator Agent service. Because the batch script (scAgent.bat) runs Snap Creator in the foreground, the Snap Creator Agent will run only as long as the command prompt is open. To run Snap Creator in the background, you should use the Snap Creator Agent service.

Starting, verifying, and stopping Snap Creator Agent on UNIX

You can start and stop the Snap Creator Agent service, and verify whether the Snap Creator Agent service is running on your UNIX system.

1. Start or stop the Snap Creator Agent, or verify whether the Snap Creator Server service is running, as applicable:

If you want to…	Enter the following…
Start the Snap Creator Agent service	install_path/scAgent4.3.0/bin/scAgent start

If you want to…	Enter the following…
Verify whether the Snap Creator Agent service is running	install_path/scAgent4.3.0/bin/scAgent status
Stop the Snap Creator Agent service	install_path/scAgent4.3.0/bin/Agent stop

Changing the Snap Creator Agent port after installation

To change the port on which the Snap Creator Agent is listening, you can make a change in the Snap Creatoragent.properties file and restart the agent.

The procedure for changing the Snap Creator Agent port is the same for Windows and UNIX. The following procedure uses examples from the UNIX environment.

1. Log in to the system on which the Snap Creator Agent is running, and switch to the etc subdirectory within the installation directory.

   ```
   cd /install_path/scAgent4.3.0/etc
   ```

2. Open the agent.properties file using a text editor.
3. Change the value of the DEFAULT_PORT parameter to the new port (by default, the port is 9090).

   For example, to use port 9191, change the DEFAULT_PORT parameter as follows:

   ```
   DEFAULT_PORT=9191
   ```

4. Save and close the agent.properties file.
5. Restart the Snap Creator Agent.

   ```
   /install_path/scAgent4.3.0/bin/scAgent restart
   ```

   If the Snap Creator Agent is running when any changes are made to the allowed_commands.config file or the agent.properties file, then the agent must be restarted.

Snap Creator Agent security

Snap Creator Server communicates with Snap Creator Agent only through HTTPS, which ensures a secure and encrypted communication. This feature is important in a multitenant environment. Self-signed certificates enables you to use your own generated certificate with Snap Creator Agent.

This is supported only for Snap Creator 4.1 and later.

Managing Snap Creator Agent security

You can manage the security settings of the Snap Creator Agent by adding commands that can be used by Snap Creator. You can also limit communication to specific Snap Creator servers.

The procedure for managing Snap Creator Agent security is the same for Windows and UNIX. The following procedure uses examples from the UNIX environment.

1. Log in to the system where the Snap Creator Agent is running, and switch to the etc subdirectory within the installation directory.

   ```
   cd /install_path/scAgent4.3.0/etc
   ```

2. If you want to add commands that can be used by Snap Creator, perform the following steps:
   a. Open the allowed_commands.config file in a text editor.
   b. Add commands as needed, with each command on a separate line.

      The commands entered in the allowed_commands.config file are case sensitive and must exactly match the commands in the configuration file, including capitalization and quotation marks.

      command: "C:\Program Files\NetApp\SnapDrive\sdcli.exe"

      If the command contains any spaces, then you must enclose the command within quotation marks.

   c. Save and close the file.
3. If you want to limit communication to specific Snap Creator servers, perform the following steps:
   a. Open the agent.properties file in a text editor.
   b. Change the AUTHORIZED_HOSTS parameter, using commas to separate the host names.

      Both host names and IP addresses are supported.

      AUTHORIZED_HOSTS=Lyon, 10.10.10.192, Fuji01

   c. Save and close the file.
4. Restart the Snap Creator Agent.

   ```
   /install_path/scAgent4.3.0/bin/scAgent restart
   ```

Customizing the default keystore

You can customize the default keystore or certificate by using the keytool command that is available on Windows and UNIX.

The keytool command is provided by Java. In some environments, you might have to switch to the Java installation directory in order to run the keytool command.

Snap Creator does not support truststores.

1. Stop the Snap Creator Agent.
2. Generate a new keystore with a single certificate:

   ```
   keytool -genkeypair -alias alias_name -keystore keystore_file -keypass
   private_key_password -storepass keystore_password
   ```

   keytool -genkeypair -alias servicekey -keystore serviceKeystore.jks -keypass kypswd123 -storepass kystrpswd123

3. Copy the keystore file to the scAgent4.3.0/etc/ directory.
4. Update the KEYSTORE_FILE=keystore_file and KEYSTORE_PASS=keystore password parameters in the Snap Creator Agent configuration file (scAgent4.3.0/etc/allowed_commands.config).
5. Start the Snap Creator Agent.

Related information

Starting, verifying, and stopping Snap Creator Agent on Windows

Starting, verifying, and stopping Snap Creator Agent on UNIX

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