Snap Creator Agent security

Snap Creator Framework

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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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