



Troubleshooting security issues

Snap Creator Framework

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Troubleshooting security issues

You must be aware of certain security issues in Snap Creator and know how to troubleshoot them.

Cryptographic flaws in Transport Layer Security

- **Issue**

TLS 1.0 has several cryptographic flaws. An attacker might exploit these flaws to conduct man-in-the-middle attacks or to decrypt communications between the affected service and clients.

- **Cause**

The remote service accepts connections encrypted by using TLS 1.0.

- **Corrective action**

Snap Creator has an option to enable or disable TLS 1.0 protocol .

- To support backward compatibility, set the `ENABLE_SECURITY_PROTOCOL_TLS_V1` parameter as Y in the `snapcreator.properties` and `agent.properties` files. The `ENABLE_SECURITY_PROTOCOL_TLS_V1` parameter is set as N by default.



The `ENABLE_SECURITY_PROTOCOL_TLS_V1` parameter can only be used in releases earlier than Snap Creator Framework 4.3.3. Because the Snap Creator Framework 4.3.3 release only supports Oracle Java and OpenJDK 1.8 and later, the support for TLS 1.0 was removed from Snap Creator Framework.

Self-signed SSL certificate not matching the URL

- **Issue**

The self-signed SSL certificate provided with Snap Creator Framework does not match the URL.

- **Cause**

The common name (CN) of the SSL certificate presented on the Snap Creator service is for a different machine, and so it does not match the host name.

- **Corrective action**

System IP parameter has been introduced during the installation of Snap Creator Server and Snap Creator Agent to resolve host name.

- Enter the system IP address on which Snap Creator Framework is being installed in the System IP option.
 - The common name of the SSL certificate can be created using the same IP address.

CA-signed SSL certificate is required for Snap Creator Framework

- **Issue**

The Certificate Authority (CA)-signed SSL certificate is required for Snap Creator Framework.

- **Cause**

The server's X.509 certificate does not have a signature from a known public certificate authority.

- **Corrective action**

Snap Creator Framework supports installation of a third-party certificate.

- a. Update the following parameter values in the snapcreator.properties and agent.properties files:

 snapcreator.properties file:

 SNAPCREATOR_KEYSTORE_PASS

 SNAPCREATOR_KEYSTORE_PATH

 agent.properties file:

 KEYSTORE_FILE

 KEYSTORE_PASS

- b. Restart the server and the agent services.

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