



# **Import CA Certificate to the UNIX host plugins and configure root or intermediate certificates to SPL trust-store**

SnapCenter Software 4.9

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# Import CA Certificate to the UNIX host plug-ins and configure root or intermediate certificates to SPL trust-store

## Import CA Certificate to the UNIX plug-in hosts

You should import the CA certificate to the UNIX plug-in hosts.

### About this task

- You can manage the password for SPL keystore, and the alias of the CA signed key pair in use.
- The password for SPL keystore and for all the associated alias password of the private key should be same.

### Steps

1. You can retrieve SPL keystore default password from SPL property file. It is the value corresponding to the key `SPL_KEYSTORE_PASS`.
2. Change the keystore password: `$ keytool -storepasswd -keystore keystore.jks`
3. Change the password for all aliases of private key entries in the keystore to the same password used for the keystore: `$ keytool -keypasswd -alias "<alias_name>" -keystore keystore.jks`
4. Update the same for the key `SPL_KEYSTORE_PASS` in `spl.properties`` file.
5. Restart the service after changing the password.

## Configure root or intermediate certificates to SPL trust-store

You should configure the root or intermediate certificates to SPL trust-store. You should add the root CA certificate and then the intermediate CA certificates.

### Steps

1. Navigate to the folder containing the SPL keystore: `/var/opt/snapcenter/spl/etc`.
2. Locate the file `keystore.jks`.
3. List the added certificates in the keystore: `$ keytool -list -v -keystore keystore.jks`
4. Add a root or intermediate certificate: `$ keytool -import -trustcacerts -alias <AliasNameForCertificateToBeImported> -file /<CertificatePath> -keystore keystore.jks`
5. Restart the service after configuring the root or intermediate certificates to SPL trust-store.

## Configure CA signed key pair to SPL trust-store

You should configure the CA signed key pair to SPL trust-store.

## Steps

1. Navigate to the folder containing the SPL's keystore `/var/opt/snapcenter/spl/etc`.
2. Locate the file `keystore.jks``.
3. List the added certificates in the keystore: `$ keytool -list -v -keystore keystore.jks`
4. Add the CA certificate having both private and public key. `$ keytool -importkeystore -srckeystore <CertificatePathToImport> -srcstoretype pkcs12 -destkeystore keystore.jks -deststoretype JKS`
5. List the added certificates in the keystore. `$ keytool -list -v -keystore keystore.jks`
6. Verify that the keystore contains the alias corresponding to the new CA certificate, which was added to the keystore.
7. Change the added private key password for CA certificate to the keystore password.

Default SPL keystore password is the value of the key `SPL_KEYSTORE_PASS` in `spl.properties` file.

```
$ keytool -keypasswd -alias "<aliasNameOfAddedCertInKeystore>" -keystore keystore.jks`
```

8. If the alias name in the CA certificate is long and contains space or special characters ("\*", ",",), change the alias name to a simple name: `$ keytool -changealias -alias "<OriginalAliasName>" -destalias "<NewAliasName>" -keystore keystore.jks``
9. Configure the alias name from the keystore located in `spl.properties` file. Update this value against the key `SPL_CERTIFICATE_ALIAS`.
10. Restart the service after configuring the CA signed key pair to SPL trust-store.

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