

mod17_ex05: Creating local truststore

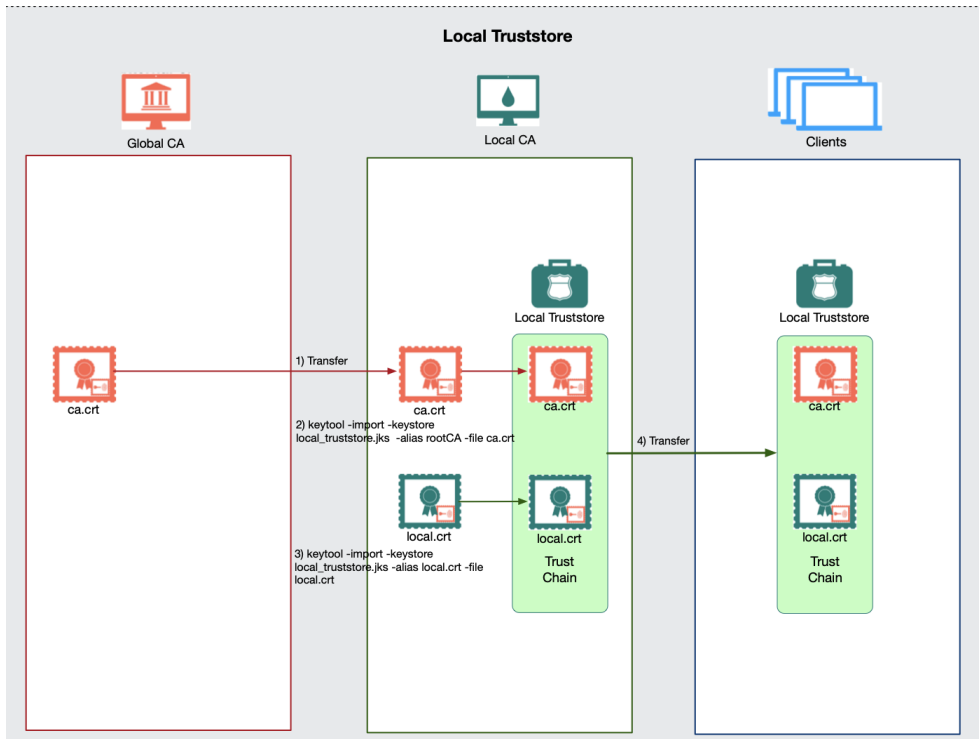
The purpose of this exercise is to create a local truststore. The local truststore will be transfered to every host.

Reference Information

The following documents provide information related to this exercise.

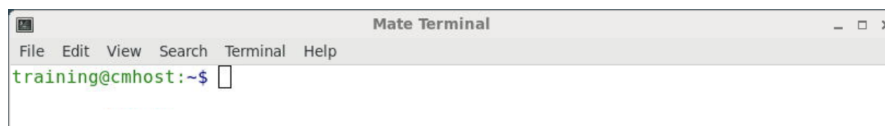
- [TBD](#)

1. Creating a local truststore.



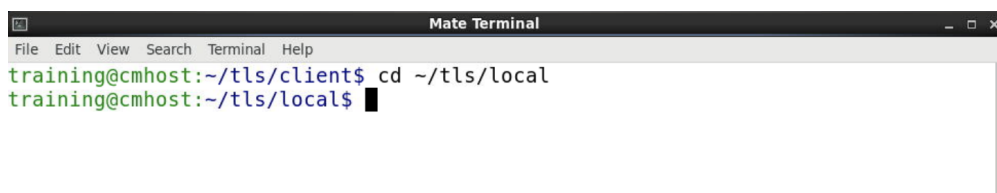
1. Transfer the `ca.crt` to local. This will be the first certificate in the trust chain.
2. Import the `ca.cert` to `local_truststore.jks`.
3. Import the `local.crt` to `local_truststore.jks`.
4. Transfer the `local_truststore.jks` to client.

2. Open a Mate terminal as the user training.



3. Transfer the CA certificate.

3.1 Change directories to local.



```
$ cd ~/tls/local
```

3.2 Copy in the ca.crt.



```

training@cmhost:~/tls/local$ cp ~/tls/ca/ca.crt ca.crt
training@cmhost:~/tls/local$

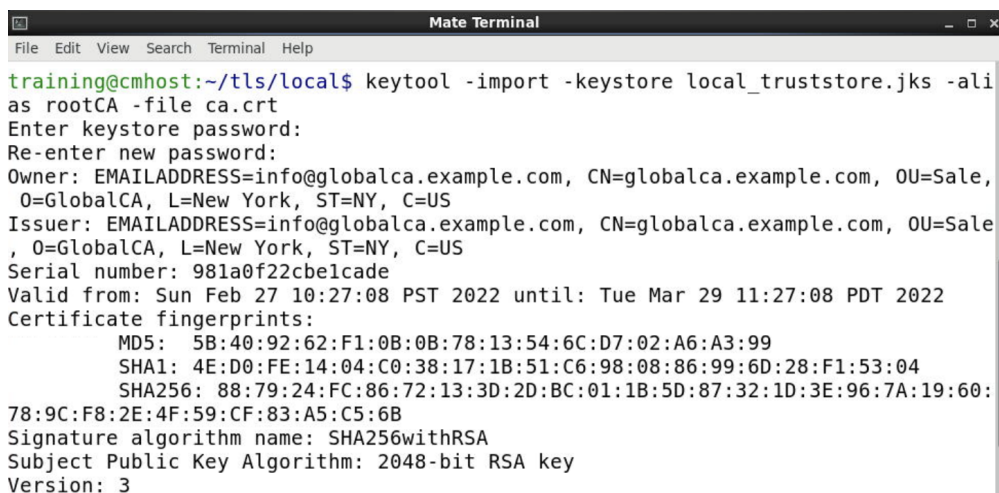
```

```
$ cp ~/tls/ca/ca.crt ca.crt
```

4. Import certificates.

The first key in the chain should be the CA's public key (ca.crt). Additional keys added to the keystore from this point are called intermediate keys.

4.1 Import the CA certificate. Use password <password>.



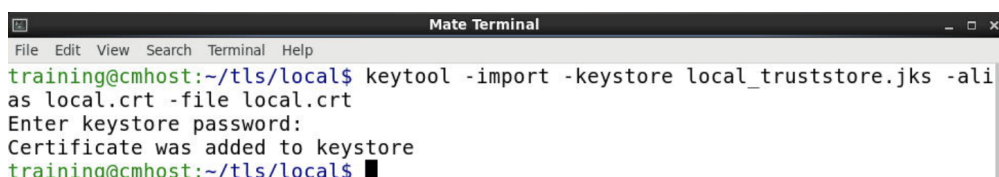
```

training@cmhost:~/tls/local$ keytool -import -keystore local_truststore.jks -alias rootCA -file ca.crt
Enter keystore password:
Re-enter new password:
Owner: EMAILADDRESS=info@globalca.example.com, CN=globalca.example.com, OU=Sale, O=GlobalCA, L=New York, ST=NY, C=US
Issuer: EMAILADDRESS=info@globalca.example.com, CN=globalca.example.com, OU=Sale, O=GlobalCA, L=New York, ST=NY, C=US
Serial number: 981a0f22cbe1cade
Valid from: Sun Feb 27 10:27:08 PST 2022 until: Tue Mar 29 11:27:08 PDT 2022
Certificate fingerprints:
    MD5: 5B:40:92:62:F1:0B:0B:78:13:54:6C:D7:02:A6:A3:99
    SHA1: 4E:D0:FE:14:04:C0:38:17:1B:51:C6:98:08:86:99:6D:28:F1:53:04
    SHA256: 88:79:24:FC:86:72:13:3D:2D:BC:01:1B:5D:87:32:1D:3E:96:7A:19:60:78:9C:F8:2E:4F:59:CF:83:A5:C5:6B
Signature algorithm name: SHA256withRSA
Subject Public Key Algorithm: 2048-bit RSA key
Version: 3

```

```
$ keytool -import -keystore local_truststore.jks -alias rootCA -file ca.crt
```

4.2 Import the local certificate.



```

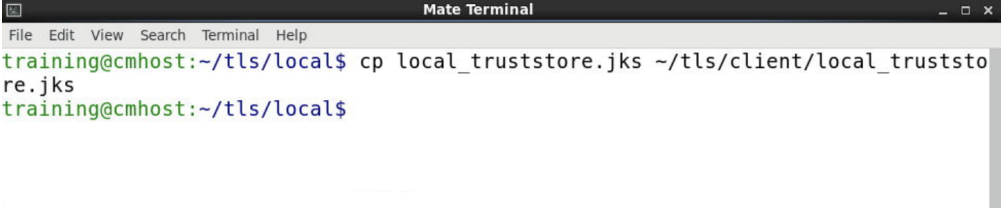
training@cmhost:~/tls/local$ keytool -import -keystore local_truststore.jks -alias local.crt -file local.crt
Enter keystore password:
Certificate was added to keystore
training@cmhost:~/tls/local$

```

```
$ keytool -import -keystore local_truststore.jks -alias local.crt -file local.crt
```

5. Transfer the truststore.

5.1 Transfer the truststore.

A screenshot of a terminal window titled "Mate Terminal". The window has a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The terminal shows a prompt "training@cmhost:~/tls/local\$" followed by the command "cp local_truststore.jks ~/tls/client/local_truststore.jks". The command is split across two lines: "cp local_truststore.jks ~/tls/client/local_truststo" on the first line and "re.jks" on the second line. The prompt "training@cmhost:~/tls/local\$" appears again on the third line.

```
Mate Terminal
File Edit View Search Terminal Help
training@cmhost:~/tls/local$ cp local_truststore.jks ~/tls/client/local_truststo
re.jks
training@cmhost:~/tls/local$
```

```
$ cp local_truststore.jks ~/tls/client/local_truststore.jks
```