

Thursday, March 29, 2018

INSTALLING a CA-SIGNED (WILDCARD) CERTIFICATE IN MAPR CLUSTER

ASSUMPTIONS

1. 1-node cluster on mapr50.hadoopone.com is running in secure mode already. configure.sh was run setting mapr50.hadoopone.com (FQDN) as CLDB, ZK, HS, and RM.
3. cert generated from godaddy is a wildcard cert for *.hadoopone.com domain and contains a7d2eaede47dbc19.crt (wildcard host cert), gd_bundle-g2-g1.crt (cert chain), and hadoopone.key (RSA key). All files stored in home directory of root user.
4. an entry in hosts file of laptop was created for mapr50.hadoopone.com (so that MCS doesn't prompt "continue at your own risk?"), or this host resolves in DNS.

PROCEDURE (all commands run as root user)

1. stop the cluster

```
service mapr-warden stop
service mapr-zookeeper stop
```

2. copy ssl_keystore and ssl_truststore to home directory

```
cp /opt/mapr/conf/ssl_* ~
```

3. check contents of certificate issued by godaddy

```
keytool -printcert -file ~/a7d2eaede47dbc19.crt
openssl x509 -noout -text -in ~/a7d2eaede47dbc19.crt
```

4. check cert chain issued by godaddy

```
keytool -printcert -file ~/gd_bundle-g2-g1.crt
```

5. check RSA key issued by godaddy

```
openssl rsa -noout -text -in hadoopone.key
```

6. create PKCS12 certificate to import

```
openssl pkcs12 -export -in ~/a7d2eaede47dbc19.crt -inkey ~/hadoopone.key -out ~/hadoopone_com.pk12 -name 'mapr50.hadoopone.com' -CAfile ~/gd_bundle-g2-g1.crt -chain -passout pass:mapr123
```

7. check PKCS12 certificate you just generated

```
keytool -list -keystore ~/hadoopone_com.pk12 -storepass mapr123 -storetype PKCS12
```

8. import PKCS12 certificate in keystore

```
keytool --importkeystore -noprompt -deststorepass mapr123 -destkeystore ~/ssl_keystore -srckeystore hadoopone_com.pk12 -srcstoretype PKCS12 -srcstorepass mapr123
```

9. list certs in the keystore

```
keytool -list -v -keystore ~/ssl_keystore -storepass mapr123
```

10. delete self-signed cert from keystore

```
keytool -delete -noprompt -alias my.cluster.com -keystore ~/ssl_keystore -storepass mapr123
```

11. list certs in the keystore

```
keytool -list -keystore ~/ssl_keystore -storepass mapr123
```

12. list certs in the trust store

```
keytool -list -keystore ~/ssl_truststore -storepass mapr123
```

13. import PKCS12 certificate in truststore

```
keytool --importkeystore -noprompt -deststorepass mapr123 -destkeystore ~/ssl_truststore -srckeystore hadoopone_com.pk12 -srcstoretype PKCS12 -srcstorepass mapr123
```

14. list certs in the trust store

```
keytool -list -keystore ~/ssl_truststore -storepass mapr123
```

15. delete self-signed cert from truststore

```
keytool -delete -noprompt -alias my.cluster.com -keystore ~/ssl_truststore -storepass mapr123
```

16. list certs in the trust store

```
keytool -list -keystore ~/ssl_truststore -storepass mapr123
```

17. copy the modified keystore and truststore back to /opt/mapr/conf

```
cp ~/ssl_keystore /opt/mapr/conf
cp ~/ssl_truststore /opt/mapr/conf
```

18. restart the cluster

```
service mapr-zookeeper start
service mapr-warden start
```

19. test

```
connect to MCS
submit yarn application
connect to web ui's
```

Posted by **MapR** at 8:34 AM



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