

Installer - Bug #25359

Missing "-name" option on "openssl pkcs12" command may cause incorrect nickname added to the katello nssdb

10/31/2018 04:19 PM - Chris Roberts

Status:	Resolved	
Priority:	Normal	
Assignee:	Chris Roberts	
Category:	Foreman modules	
Target version:		
Difficulty:	easy	Fixed in Releases:
Triaged:	No	Found in Releases:
Bugzilla link:	1577014	Red Hat JIRA:
Pull request:	https://github.com/theforeman/puppet-exports/pull/223	

Description

escription of problem:

Below is the steps that satellite-installer create the Qpid broker certificate to the katello nssdb

1) Delete the "broker" certificate from nssdb

```
Executing 'certutil D -d /etc/pki/katello/nssdb -n "broker"
```

2) Import broker certificate to nssdb. It looks like something strange could happen here. Certutil returns 0 exit code but the "broker" certificate was not created. I am also not able to reproduce it but it happened in a case.

```
Executing 'certutil A -d /etc/pki/katello/nssdb -n "broker" -t ',' -a i /etc/pki/katello/certs/satellite.example.com-qpid-broker.crt'
```

3) Convert the broker private key and certificate to pkcs12 format. There is a problem in this command. It should pass a certname option ("-name broker") but it didn't. Therefore, a "pfx" file without nickname was created.

```
Executing 'openssl pkcs12 in /etc/pki/katello/certs/satellite.example.com-qpid-broker.crt -inkey /etc/pki/katello/private/satellite.example.com-qpid-broker.key -export -out /etc/pki/katello/satellite.example.com-qpid-broker.pfx -password file:/etc/pki/katello/nssdb/nss_db_password file'
```

4) Import the generated "pfx" file to nssdb using pk12util command. Since no nickname is provided by the "pfx" file, it will generate a nickname in the format of "{Common Name} - {Org}". In this case "satellite.example.com - SomeOrg".

```
Executing 'pk12util i /etc/pki/katello/satellite.example.com-qpid-broker.pfx -d /etc/pki/katello/nssdb -w /etc/pki/katello/nssdb/nss_db_password file -k /etc/pki/katello/nssdb/nss_db_password file'
```

To prevent the above issue, I suggest to add "-name broker" to the "openssl pkcs12" command in step (3). I also think that the "certutil -A" command in step (2) is not needed. Since we are going to import both broker private key and ssl certificate using "pk12util" command in step (4), why do we still need to run "certutil -A"?

Reproducing from terminal:

```
$ certutil L -d -
```

Certificate Nickname	Trust Attributes
amqp-client	
ca	CT,C,c

```
$ openssl pkcs12 -in /etc/pki/katello/certs/mysatellite-example.com-qpuid-broker.crt -inkey
/etc/pki/katello/private/mysatellite-example.com-qpuid-broker.key -export -out '/etc/pki/katello/mysatellite-example.com-qpuid-broker.pfx'
-password 'file:/etc/pki/katello/nssdb/nss_db_password-file'
```

```
pk12util i '/etc/pki/katello/mysatellite-example.com-qpuid-broker.pfx' -d '/etc/pki/katello/nssdb' -w
'/etc/pki/katello/nssdb/nss_db_password-file' -k '/etc/pki/katello/nssdb/nss_db_password-file'
```

```
pk12util: no nickname for cert in PKCS12 file. <===== ##### Complain about missing
nickname #####
```

```
pk12util: using nickname: mysatellite-example.com - Katello <===== ##### "{Common
Name} - {Org}" nickname is used #####
```

```
pk12util: PKCS12 IMPORT SUCCESSFUL
```

```
-----
certutil L-d-
```

```
Certificate Nickname
SSL,S/MIME,JAR/XPI
```

```
Trust Attributes
```

```
amqp-client
```

```
ca CT,C,c
```

```
mysatellite-example.com - Katello u,u,u <=====
```

Associated revisions

Revision fc3ad9a9 - 10/31/2018 05:03 PM - Chris Roberts

Fixes #25359 - Add name flag to openssl pkcs12 nsddb key/cert convert.

History

#1 - 10/31/2018 06:03 PM - Chris Roberts

- Status changed from New to Resolved

- Pull request <https://github.com/theforeman/puppet-certs/pull/223> added