Pkcs11-tool

Install pkcs11-tool

```
apt install opensc
```

Get hsm info

```
pkcs11-tool --module /opt/nfast/toolkits/pkcs11/libcknfast.so --show-info
```

List available slots

```
pkcs11-tool --module /opt/nfast/toolkits/pkcs11/libcknfast.so --list-slots
```

List objects on specified slot

```
pkcs11-tool --module /opt/nfast/toolkits/pkcs11/libcknfast.so --list-objects --slot 0x1f655491
```

List certificates on specified slot

```
pkcs11-tool --module /opt/nfast/toolkits/pkcs11/libcknfast.so --list-objects --slot 0x1f655491
--type cert
```

Export public key

```
pkcs11-tool --module /usr/lib/libcs_pkcs11_R2.so --login --slot 3 --read-object --type pubkey
--id <id> --output-file slot3_pub.key
```

Export certificate(needs partitiob/slot password)

```
pkcs11-tool --module /opt/nfast/toolkits/pkcs11/libcknfast.so --login --slot 0x1f55492 --read-
object --type cert --id <id> --output-file cert.der
```

Thales-Other

```
pkcs11-tool --module /usr/lib/libCryptoki2_64.so --list-slots
pkcs11-tool --module /usr/lib/libCryptoki2_64.so --list-objects --login --login-type user --
token-label <label>
pkcs11-tool --module /usr/lib/libCryptoki2_64.so --list-objects -r --type cert -l --login-type
user --token-label <label>
```

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