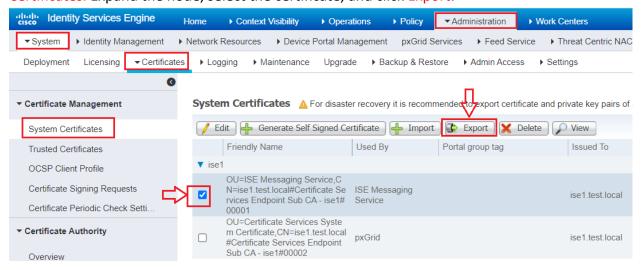
### **Export and Import Certificates in ISE:**

ISE uses certificates for various purposes such as Web UI, Web Portals, EAP, pxGrid etc. It is important to take a backup of certificates installed on ISE nodes. There are two steps involved to import the certificate on ISE. Find out if the certificate is self-signed or 3rd party signed certificate. If the certificate is self-signed, import the public key of the certificate under trusted certificates. If the certificate is signed by some third-party certificate authority, Import Root and all other intermediate certificates of the certificate.

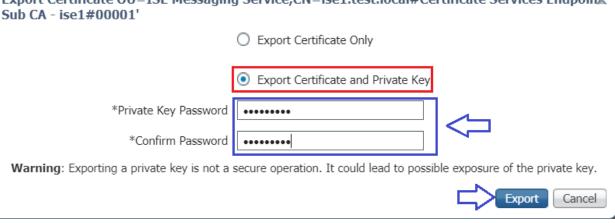
#### **Export Certificate in ISE:**

Navigate to Administration > System > Certificates > Certificate Management> System Certificates. Expand the node, select the certificate, and click Export.

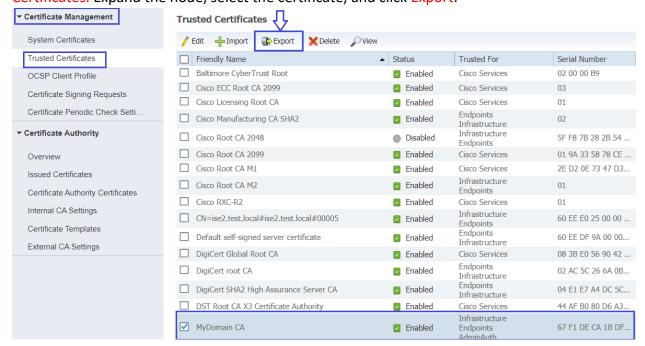


Select Export Certificate and Private Key. Enter a minimum 8 character in length alpha numeric password. This password is required to restore the certificate.

Export Certificate'OU=ISE Messaging Service,CN=ise1.test.local#Certificate Services Endpoint Sub CA - ise1#00001'

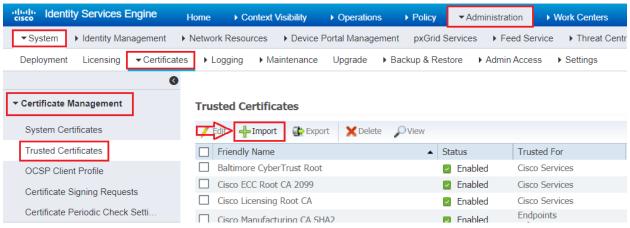


## Navigate to Administration > System > Certificates > Certificate Management> Trusted Certificates. Expand the node, select the certificate, and click Export.

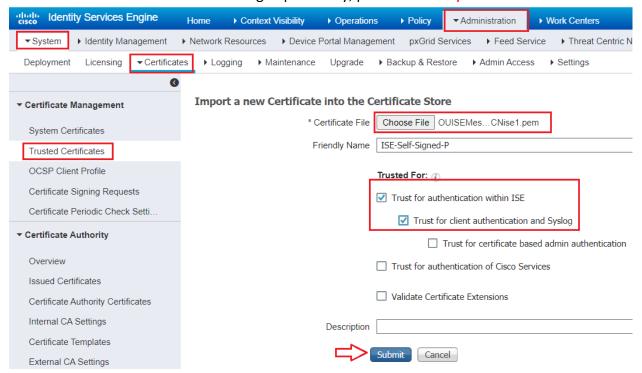


#### Import Certificate in ISE:

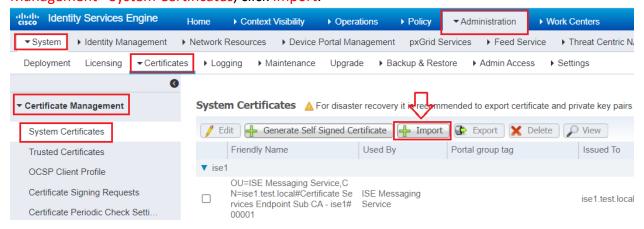
# Navigate to Administration > System > Certificates > Certificate Management > Trusted Certificates, click Import



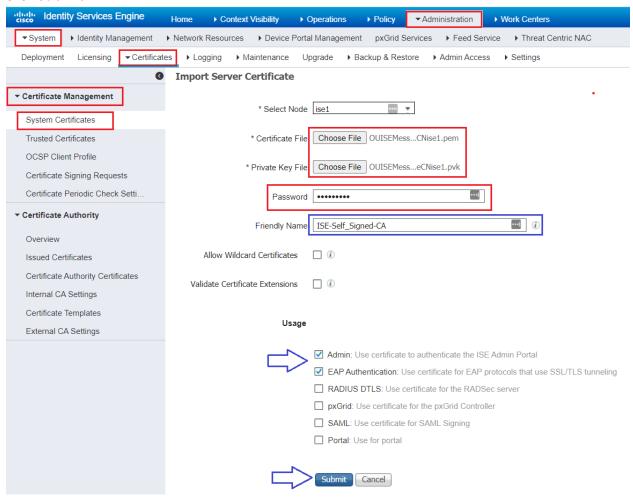
If the certificate is self-signed, import the public key of the certificate under trusted certificates. Click on Choose File to browse self-singed public key, provide Friendly name and click Submit.



Import the actual certificate. Navigate to Administration > System > Certificates > Certificate Management> System Certificates, click Import.



Select the node for which you want to import the certificate. Browse the public and private keys. Enter the password for the private key of the certificate and select the desired role. Now click Submit.



#### **Backup ISE Certificates CLI:**

To perform Cisco ISE certification backup, you need to login CLI and run below command. Then select **option 7** and fill all the data accordingly.

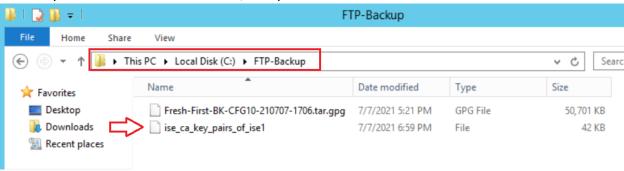
ise1/admin# application configure ise

```
✓ 192.168.100.210 (2) ×
ise1/admin# application configure ise
Selection configuration option
[1]Reset M&T Session Database
[2]Rebuild M&T Unusable Indexes
[3] Purge M&T Operational Data
[4]Reset M&T Database
[5]Refresh Database Statistics
[6]Display Profiler Statistics
[7]Export Internal CA Store <
[8]Import Internal CA Store
[9]Create Missing Config Indexes
[10]Create Missing M&T Indexes
[11]Enable/Disable ACS Migration
[12]Generate Daily KPM Stats
[13]Generate KPM Stats for last 8 Weeks
[14]Enable/Disable Counter Attribute Collection
[15] View Admin Users
[16]Get all Endpoints
[17]Enable/Disable Wifi Setup
[18]Reset Config Wifi Setup
[19]Establish Trust with controller
[20]Reset Context Visibility
[21]Synchronize Context Visibility With Database
[22]Generate Heap Dump
[23]Generate Thread Dump
[24]Force Backup Cancellation
[25]CleanUp ESR 5921 IOS Crash Info Files
[0]Exit
```

After type 7 to Export Internal CA Store. Type the Export Repository Name and encrypted Password to start exporting Certificates.

```
Export Repository Name: ISE-Backup
Enter encryption-key for export:
log4j:WARN No appenders could be found for logger (org.springframework.context.s
upport.ClassPathXmlApplicationContext).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more in
ERROR StatusLogger Log4j2 could not find a logging implementation. Please add log4j-core to the classpath. Using SimpleLogger to log to the console...
Inside Session facade init
Old Memory Size : 16266360
In the init method of PDPFacade
Time taken for NSFAdminServiceFactory to load5306
Old Memory Size : 16266360
Export in progress...Old Memory Size : 16266360
The following 5 CA key pairs were exported to repository 'ISE-Backup' at 'ise_ca
_key_pairs_of_ise1':
         Subject: CN=Certificate Services Root CA - ise1
         Issuer: CN=Certificate Services Root CA - ise1
         Serial#:0x6cf5407d-556c453a-9f193a0a-fc95da5e
         Subject: CN=Certificate Services Node CA - ise1
         Issuer:CN=Certificate Services Root CA - ise1
Serial#:0x2574fb8c-79f74841-86e7393e-7639ac07
         Subject: CN=Certificate Services Endpoint Sub CA - ise1
         Issuer: CN=Certificate Services Node CA - ise1
         Serial#:0x54090a75-dbf147d1-b4456a9c-be193dce
         Subject: CN=Certificate Services Endpoint RA - ise1
         Issuer: CN=Certificate Services Endpoint Sub CA - ise1
         Serial#:0x54185968-a56c4835-be28e570-d92c7dad
         Subject: CN=Certificate Services OCSP Responder - ise1
        ISE CA keys export completed successfully
```

Within next few minutes you will be able to see Cisco ISE Certificates files in your FTP root directory. How much time it will take, it depends.



#### Restore ISE Certificates CLI:

To perform Cisco ISE certification restore, you need to login CLI and run below command. Then select **option 8** and fill all the data accordingly.

ise1/admin# application configure ise

```
✓ 192.168.100.220 (2) ×
ise2/admin# application configure ise
Selection configuration option
[1] Reset M&T Session Database
[2]Rebuild M&T Unusable Indexes
[3]Purge M&T Operational Data
[4]Reset M&T Database
[5]Refresh Database Statistics
[6]Display Profiler Statistics
[7]Export Internal CA Store
[8]Import Internal CA Store
[9]Create Missing Config Indexes
[10]Create Missing M&T Indexes
[11]Enable/Disable ACS Migration
[12]Generate Daily KPM Stats
[13]Generate KPM Stats for last 8 Weeks
[14] Enable/Disable Counter Attribute Collection
[15] View Admin Users
[16]Get all Endpoints
[17]Enable/Disable Wifi Setup
[18]Reset Config Wifi Setup
[19]Establish Trust with controller
[20]Reset Context Visibility
[21]Synchronize Context Visibility With Database
[22]Generate Heap Dump
[23]Generate Thread Dump
[24]Force Backup Cancellation
[25]CleanUp ESR 5921 IOS Crash Info Files
[0]Exit
```

After type 8 to Import Internal CA Store. Type the Import Repository Name, File name and encrypted Password to start Importing Certificates.

```
8
Import Repository Name: FTP-Repo
Enter CA keys file name to import: ise_ca_key_pairs_of_ise2
Enter encryption-key:
```