# **Configure CSSM on Prem and Register Licenses** with ISE

## Contents

Introduction
Prerequisites
Requirements
Components Used
<u>Configure</u>
Network Diagram
Install CSSM On-Prem on VMWARE ESXi.
Initial Configuration of CSSM On-Prem.
Integrate CSSM On-Prem with Smart Account
OPTION 1: Register your CSSM On-Prem through Internet connection.
OPTION 2: Register your CSSM On-Prem without an Internet connection.
Integrate CSSM On-Prem with ISE.
Create certificates from Windows CA.
Add DNS records on Windows Server.
Troubleshoot
Host/IP Address is not reachable.(Error on ISE)
SSO service: Unable to reach Cisco. (Error on CSSM On-Prem)
The Common Name in the CSR is not a DNS-resolvable hostname or IP address, please try again.(Error on CSSM On-Prem)

## Introduction

This document describes the integration of **CSSM On-Prem** with **Cisco Identity Service Engine (ISE)** and **Cisco Smart Account**, ensuring a seamless setup.

## Prerequisites

### Requirements

ISE **3.X** 

Cisco Smart Software Manager(CSSM) Version 8 Release 202304 +

## **Components Used**

- Identity Service Engine 3.2 patch 2
- SSM On Prem 8.20234
- Windows Active Directory 2016 (DNS and Certificate Authority services)
- VMWare ESXi version 7

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

# Configure

## **Network Diagram**



General topology

## Install CSSM On-Prem on VMWARE ESXi.

- 1. Download the **Cisco IOS**<sup>®</sup>. You can use the next link: <u>https://software.cisco.com/download/home/286285506/type/286326948/release/8-202304</u>
- 2. Upload the ISO in VMWARE ESXi.

Navigate to **Storage > Datastore Browser.** 

vmware <sup>,</sup> ESXi <sup>,</sup>					root@1	0.4.23.59 👻	Help 👻   🔍	Search
1 Navigator	Iocalhost.localdomain - Storage							
✓ ☐ Host Manage Monitor	Datastores         Adapters         Devices         F <sup>2</sup> New datastore <sup>2</sup> Increase capacity <u>a</u>	Persistent Memory	Q Datastore brov	wser C Refr	esh   🏠 Actio	ns	Q Sear	ch )
Givirtual Machines	Name	<ul> <li>Drive Type</li> <li>SSD</li> </ul>	Capacity ~ 870.75 GB	Provisioned ~ 1.42 GB	Free ~ 869.33 GB	Type VMFS6	Thin provi v Supported	Access ~ Single
✓ ☐ datastore1 Monitor More storage								1 items
9 🧟 Networking 1								

Data browser section

3. Click **Create Directory** to create a new folder (optional).



Creation of directory

In this example, the **CSSM** folder was created:

🟹 Datastore I	browser						
🛉 Upload	🔓 Download	🛃 Delete 🛛 🔒 Move	e 🚹 Copy	Create directory	C Refresh		
datastore1		🚞 .sdd.sf					
		CSSM					
			111		111		
datastore1	] CSSM/					 	
							Close

Creation of folders

### 4. Click Upload and then choose your ISO file.

<ul> <li>← → · ↑</li> <li>♦ &gt; This PC &gt; Downloads</li> <li>♥</li> <li>♥</li></ul>	C Open					$\times$
Organize · New folder     Name   · Today (1)   © SSM_On-Prem-8-202304   · Yesterday (9)   · Earlier this week (17)   · Earlier this year (34)   · In   · No preview available.   No preview available.   · This   · Name      File name: SSM_On-Prem-8-202304   · Vasterday (9)   · Vasterday (9)   · Earlier this year (34)   · No preview available.   · In   · Vasterday (25)   · In   · File name: SSM_On-Prem-8-202304   · Vasterday (9)   · Vasterday (9)   · Earlier this year (34)   · Vasterday (9) · Earlier this year (34) · Vasterday (9) · Vasterday (9) · Earlier this year (34) · Vasterday (9) · Vasterday (9) · Earlier this year (34) · Vasterday (9) · Vasterday (9) · Earlier this year (34) · Vasterday (9) · Earlier this year (34) · Vasterday (9) · Earlier this year (34) · Vasterday (9) · Vasterday (9) · Vasterday (9) · Earlier this year (34) · Vasterday (9) · Vast	$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\clubsuit$ > This PC > Downloads	~	U	Search Downloads		,p
Name   Cu   Cu   Cu   Cu   Cu   Cu   SSM_On-Prem-8-202304   > Yesterday (9)   > Earlier this year (34)   > Earlier this year (34)   > A long time ago (25)   Flie name: SSM_On-Prem-8-202304     Flie name: SSM_On-Prem-8-202304	Organize - New folder					0
File name: SSM_On-Prem-8-202304 V All files V	▲ Ou       ▲ Today (1)         ▲ Co       ● SSM_On-Prem-8-202304         ▲ Co       ● SSM_On-Prem-8-202304         ● Co       ● Setrier this week (17)         ■ Co       ● Earlier this week (17)         ■ Co       ● Earlier this year (34)         ■ ft       ● A long time ago (25)         ■ ft       ■ Ne *			No preview available.		
One Court	File name: SSM_On-Prem-8-202304		v	All files	Consul	~

Uploading ISO

Now the **ISO** file is in the **CSSM** folder:



The ISO upload is completed

5. Create the Virtual Machine. navigate to Virtual Machine > Create / Register VM.

vmware <sup>,</sup> Esxi <sup>**</sup>		root@10.4.23.59 -   Help -   Q Search -
Bavigator	C localhost.localdomain - Virtual Machines	
Manage	Create / Register VM	C Refresh Actions Q Search
Monitor	Virtual machine     Virtual machine     Status      Used space     Guest Of	S V Host name V Host CPU V Host mem V
Virtual Machines 0	Quick filters	No items to display

Creating a new VM step 01

6. Choose Create a new virtual machine and click next.



Creating a new VM step 02

7. Then configure the next parameters:

- Name: Enter the name of your virtual machine.
- Compatibility: Select either ESXi 6.0 or later or ESXi 6.5 or later.
- Guest OS family: Linux.
- Guest OS version: Choose either CentOS 7 (64 bit) or Other 2.6x Linux (64 bit)

Click next.

1 Select creation type     2 Select a name and guest OS     3 Select storage	Select a name and guest O Specify a unique name and OS	S	
4 Customize settings 5 Ready to complete	Name CSSM TAC Virtual machine names can contain up to 80 Identifying the guest operating system here installation.	) characters and they must be unique within each ESXi instance. allows the wizard to provide the appropriate defaults for the opera	ting system
	Compatibility	ESXi 7.0 U1 virtual machine	~
	Guest OS family	Linux	~
	Guest OS version	CentOS 7 (64-bit)	~
<b>vm</b> ware <sup>.</sup>			

## 8. Select your **storage** and click **next**.

😚 New virtual machine - CSSM TAC (ESXi 7.0 U1 virtual machine)									
<ul> <li>1 Select creation type</li> <li>2 Select a name and guest OS</li> <li>3 Select storage</li> <li>4 Customize settings</li> <li>5 Ready to complete</li> </ul>	Select storage Select the storage type and datastor Standard Persistent Memory Select a datastore for the virtual m	e achine's d	configuration file	es and all of its	virtual disk	s.			
	Name	~	Capacity 🗸	Free ~	Туре	~	Thin pro $\backsim$	Access	~
	datastore1		870.75 GB	869.33 GB	VMFS6		Supported	Single 1 it	tems
<b>vm</b> ware <sup>®</sup>									

Storage list

9. Configure the next parameters:

• CPU: 4 as minimum. The actual vCPU setting depends on your scale requirement



**Note**: The amount of cores per socket needs to be set to 1 regardless of the number of virtual sockets selected. For example, a 4 vCPU configuration needs to be configured as 4 sockets and 1 core per socket.



Configuration of Cores

- Memory: 8 GB
- Hard Disk: 200 GB and and verify provisioning is set to Thin Provision.

▼ 🛄 Hard disk 1	200 GB ~			
Maximum Size	869.33 GB			
Location	[datastore1] CSSM TAC Browse			
Disk Provisioning	<ul> <li>Thin provisioned</li> <li>Thick provisioned, lazily zeroed</li> <li>Thick provisioned, eagerly zeroed</li> </ul>			

Configuration of disk

• Network Adapter: Select E1000 adapter type and select Connect at Power On.

<ul> <li>Metwork Adapter 1</li> </ul>	VM Network	~
Status	Connect at power on	
Adapter Type	E1000e	~

Configuration of network settings

### • CD / DVD Drive: Choose "Data ISO file" and select the ISO file.

🟹 Datastore browser				
摿 Upload 🛛 🔓 Download	🙀 Delete 🕒 Move 🗈 Copy 🎦 Create directory 🛛 🧲 Refresh			
datastore1 vmimages	isdd.sf	SSM_On-Prem-8-2	SSM_On-Prem-8-2023 2.92 GB Wednesday, July 26, 2	

ISO image

You can verify the summary of the settings once you have completed the previous steps.

#### 1 New virtual machine - CSSM TAC (ESXi 7.0 U1 virtual machine)

1 Select creation type2 Select a name and guest OS

## Customize settings

Configure the virtual machine hardware and virtual machine additional options

3 Select storage			
Ready to complete	CPU	4 ~ (1)	
	F Memory	8 GB ~	
	Hard disk 1	200 GB ~	$\otimes$
	SCSI Controller 0	VMware Paravirtual	$\odot$
	SATA Controller 0		$\otimes$
	USB controller 1	USB 2.0 ~	$\otimes$
	Metwork Adapter 1	VM Network VM Connect	0
	SD/DVD Drive 1	Datastore ISO file  V Connect	۲
<b>vm</b> ware	▶ 🗐 Video Card	Specify custom settings ~	
		Back Next Finish	Car

Summary VM configuration 01

#### Click next.

#### 10. Click Finish.

1 New virtual machine - CSSM TAC (ESXi 7.0 U1 virtual machine)						
<ul> <li>1 Select creation type</li> <li>2 Select a name and guest OS</li> <li>3 Select storage</li> </ul>	Ready to complete Review your settings selection before finishing the wizard					
<ul> <li>3 Select storage</li> <li>4 Customize settings</li> <li>5 Ready to complete</li> </ul>	Name	CSSM TAC				
	Guest OS name	CentOS 7 (64-bit)				
	Compatibility vCPUs	ESXi 7.0 U1 virtual machine 4				
	Memory Network adapters	8 GB 1				
	Network adapter 1 network Network adapter 1 type	VM Network E1000e				
	IDE controller 0	IDE 0				
	SCSI controller 0	VMware Paravirtual				
vmware	SATA controller 0 Hard disk 1	New SATA controller				
		Back Next Finish Cancel				

Summary VM configuration 02

## Initial Configuration of CSSM On-Prem.

1. In VMWARE ESXi, navigate to Virtual Machines and select your VM and then click Power On.

vmware <sup>,</sup> ESXi <sup>,</sup>					root@10.	4.23.59 - I Help	- 1 (	Q Search	•
Navigator E	🕤 localhost.localdomain - V	irtual Machines							
✓ ☐ Host Manage	😭 Create / Register VM	Console Power on	Power off Suspend	C Refresh 🛛 🏠 Actions			Q Se	arch	
Monitor	Virtual machine	✓ Stat	tus 👻 Used space	✓ Guest OS	✓ Host name	✓ Host CP	J V	Host memory ~	
Virtual Machines	CSSM TAC	0	Normal 8.08 GB	CentOS 7 (64-bit)	Unknown	0 MHz		0 MB	
	Quick filters	~						1 items	
✓ I datastore1 Monitor									
More storage     More storage		CSSM TAC Guest OS Compatibility VMware Tools CRU Is	CentOS 7 (64-bit) No					0 MHz	1
		Memory	8 G8					STORAGE 8.08 GB	

Power on option

2. You have multiple options to manage the VM console. Select **Console > Open browser console**.

```
Iocalhost.localdomain - Virtual Machines
```



Options to manage the VM

3. Configure your **network settings**.



Note: It's important to configure the **IP address** of the DNS Server that resolves the **CSSM FQDN**.

		Cisco SSM On-Pre	em Installation		×
System Set	tinas:				
Hostname:	SSM-On-Prem				
Message Of	The Day: UNCLASSIFIED	Security Prof	ile: Standard 🔻	FIPS 140-2 Mo	ode: Enablec▼
Hardware So CPU Model: Ir Total System N Available Disks	ettings: htel(R) Xeon(R) CPU E5-269 4emory: 8174636 kB Free s: ☑ sda (200Gb) Encry	9A v4 @ 2.40GHz Memory: 4330340 vpt Drive with LUKS	CPU Threads: 4 Arc 0 kB Disabled <del>-</del>	:hitecture: 64-bit Enable USB:	Disabled 🔻
Network Se Network De	evice: ens192 ▼				
IPv4	Configuration	1	IPv6 Cor	nfiguration	
Method:	Static 🔻	Method:	Disabled 🔻		
Address:	10.4.23.60	Address:			
Netmask:	255.255.248.0	Prefix:			
Gateway:	10.4.16.1	Gateway:			
Configure 10.4.23.2	e DNS: Specify more tha 9	n one with comma	S		
					Help OK

Configuration of CSSM network settings

## Click **Ok** to configure your new **CLI password**.

4. Then the installation process starts and is finished until you can see the access prompt.

CSSM		
****		
# Authorized access only!	#	
	#	
# Disconnect IMMEDIATELY if you are not an authorized user!!!	#	
# All actions Will be monitored and recorded	#	
	****	
SSM-On-Prem login: _		

#### 5. Open a browser and enter https://<ip\_address\_CSSM>.

$\leftarrow \rightarrow$	C	C & https://10.4.23.60:8443/#/logIn?redirectURL=%2F		슙
On-F	Prem License	Workspace	ulu cise	
	Log in	to an Existing Account		Welcome to Smart Software Manager On-Prem where you can locally manage Smart Licensing and perform local Account Management functions for your

User Name	
Password	

Smart Licensing and perform local Account Management functions for your organization.

CSSM login page

Use the default credentials:

#### Username: admin

#### Password: CiscoAdmin!2345

- 6. Select your language.
- 7. Create a new GUI password.
- 8. Configure the Host Common Name. (example: hostname.yourdomain).

In this case, the cssm.testlab.local was configured as Host Common Name.

### Welcome to Cisco Smart Software Manager On-Prem

STEP 1	STEP 2	STEP 3	STEP 4
System Language Selection	Temporary Password Reset	Host Common Name	Review and Confirm
Products that support Str	ing SSL Cert Checking require	the SSM On-Prem's "Host Co	mmon Name" to match the "destination" URL address. For example:
Products using S	mart Transport must use both	the "license smart url" configur	ation and the "cssm.testlab.local" value in the URL string.
Legacy products	using Smart Call Home must u	se both the "destination addre	ss http" configuration and the "cssm.testlab.local" value in the URL string.
If the above URLs do no value.	ot match expectations, refer	to the SSM On-Prem AdminV	Vorkspace -> Secruity Widget to change the Host Common Name to the correct
The option to configure a	Iternative names (SAN) is avai	lable in Admin Console under	Security -> Certificates and can be configured after the initial setup.
* Head Common Name			
cssm.testlab.local			
Back Next			

Host common name configuration

9. Validate your configuration and click **Apply**.

STEP 1 System Language Selection	STEP 2	STEP 3	STEP 4 Review and Confirm	
Once you click "Apply", y future logins.	you will be redirected to the logi	n page where you will need to	login with your new password.	Please ensure you have securely stored your password for
Review and Confirm Language Selected:	English			
Password Reset:	Yes			
Host Common Name:	sccmtac.ciscotac.com			
Back Apply				

CSSM initial settings completed.

## Integrate CSSM On-Prem with Smart Account

You need to associate your Smart Account with your CSSM On Prem Server.

1. Open your **Cisco Smart Account** using the next link:

#### https://software.cisco.com/

2. Then choose Manage Licenses under the Smart Software Manager section.

Smart Software Manager	Download and Upgrade	Traditional Licenses
Track and manage your licenses. Convert traditional licenses to Smart Licenses.	Download new software or updates to your current software.	Generate and manage PAK-based and other device licenses, including demo licenses.
Manage licenses >	Access downloads >	Access LRP >
Manage Smart Account	EA Workspace	Manage Entitlements
Update your profile information and manage users.	Generate and manage licenses purchased through a Cisco Enterprise Agreement.	eDelivery, version upgrade, and more management functionality is now available in our new portal.
Manage account >	Access EA Workspace >	Access MCE >
Manage licenses option		

3. Navigate to Inventory and copy the name of your Smart Account name and Virtual Account. In

this guide, this is InternalTestDemoAccount67 and AAA MEX TEST.

Cisco Software Central	cisco	
Scheduled Downtime Notification - License Registration Por	tal (LRP), Manage Smart Account & Account A	dministration, Plug-N-Play (PnP), Smart Software Manager
Cisco Software Central > Smart Software Licensing		InternalTestDemoAccount67.cisco.com
Smart Software Licensing		SL Product Details Support Help
Alerts Alerts Preference:	s On-Prem Accounts Activity	
Virtual Account: AAA MEX TEST -		
General Licenses Product Instances Event Log		
Virtual Account		
Description: Only for tests		
Default Virtual Account: No		

Software Cisco page

#### 4. Open the CSSM GUI and select the Admin Workspace option.



Main CSSM menu.

5. Then select Accounts.

# On-Prem Admin Workspace

# Smart Software Manager On-Prem





: The next steps describe the procedure to install the GUI certificate in the CSSM. If you want to protect the management connection to your GUI CSSM by using a certificate signed by your personal **Certification Authority** (CA) you need to check the next steps. Otherwise, check directly the step 9.

Account	Password	Certificates	Event Log	
roduct Certificate				
sst Common Name ssm.testlab.local				
ubject Alternative Nam	10			
abject Piternative Hair				
Save				
Certificate used for produ ddress you will use to c	configure the Cisco Product	ific to the Common Name when connecting to SSM	that has been issued at the Host. The On-Prem. The Common name is a part	refore, the Common Name must match the Wel t of the Subject Alternative Name by default. If y
Add Generation	e CSR	ific to the Common Name when connecting to SSM ve Name, you must resyn	that has been issued at the Host. The On-Prem. The Common name is a par chronize your Local Account in order fo	refore, the Common Name must match the Wel t of the Subject Alternative Name by default. If y r Cisco to issue a new product certificate(TG co
Add Centificate used for production of the common Nair Centificate used for production of the common Nair Centificate Generate Add Centificate Common Nair Centificate Centifi	e CSR	ific to the Common Name when connecting to SSM ve Name, you must resyn	that has been issued at the Host. The On-Prem. The Common name is a part chronize your Local Account in order fo	expiration DATE: 2025-JUL-16
Add Generation (Default Certificates)	e CSR	ific to the Common Name when connecting to SSM ve Name, you must resyn	that has been issued at the Host. The On-Prem. The Common name is a part chronize your Local Account in order fo	EXPIRATION DATE: 2025-JUL-16
Add Certificates Add	e CSR	ific to the Common Name when connecting to SSM ve Name, you must resyn	that has been issued at the Host. The On-Prem. The Common name is a part chronize your Local Account in order fo	EXPIRATION DATE: 2025-JUL-16
Add Generation (Default Certificates)  Add Certificates  Add Description	e CSR	ific to the Common Name when connecting to SSM ve Name, you must resyn	that has been issued at the Host. The On-Prem. The Common name is a part chronize your Local Account in order fo	EXPIRATION DATE: 2025-JUL-16 EXPIRATION DATE: 2025-JUL-16

CSR option.

3. Then enter your personal information. Be aware the **Subject Alternative Name** is created automatically by using the same value as the **Common Name**. The **CSR** is downloaded automatically after clicking **Generate**.

# Generate CSR

Organizational Unit	
Testlab	
Country	
Mexico	*
State/Province	
Mexico City	
City/Locality	
Mexico City	
Organization	
SEC AAA	
Key Size	
2048	*
Subject Alternative Name	
cssm.testlab.local	



CSR details.

- 4. Sign the CSR: For more information check the "Create certificates from Windows CA." on this document.
- 5. Upload the **root CA certificate**.

#### Browser Certificate



Uploading Root CA.

#### Click Proceed.

Please note that if you are uploading LDAP Server Certificate, it is mandatory to reboot your SSM On-Prem server for the certificate to take effect and thus allowing secure communication with the server.

Below are the commands for non-HA(standalone) deployments:

 Execute "reboot" command in Onprem-console ssh admin@<IP> onprem-console reboot

For HA deployments

 Execute reboot command on active node in onprem-console. After failover, ensure that DB replication has started. If you wish to restore the previous active node, execute another reboot, after verifying replication has started.

The active node is the node that is serving the virtual IP of the cluster.

Proceed

×

6. Enter a description and choose the **root certificate** and click **Ok**.

## **Upload** Certificate

* Description:	CA root	
* Certificate:	Seleccionar archivo	Root CA.cer
7		
OK Cancel		

Description root CA.

## 7. Upload the CSR signed by the CA (CSSM Identity Certificate).

RootCA	/DC=com/DC=ciscotac/CN=ci	2026-Jul-24 09:26:34	2023-Jul-30 19:41:06	Actions
Description	Subject	Expires On	Created	Actions
			Search by Description	
		2 nems		
Add		CSSM cer	Root CA	
CA Certificates				
(Default Certificate		*		
		$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ 📕 $<$ Desktop	> certs ~	υ
Add Generate CSR		File Home Share Vi	ew	
Browser Certificate		📕 🛃 📮 🛛 certs		_

Uploading CSSM Identity Cert.



**Note**: NOTE: In our case, the **Intermediate certificate** does not exist in our CA. However, if you use an **intermediate certificate** in your architecture, the **intermediate certificate** is mandatory.

8. Then, confirm that both certificates have been installed.

Browser Certificate				
Add Generate CSR				
cssm.testlab.local				EXPIRATION DATE: 2025-JUL-16
CA Certificates				
Add				
			Search by Description	
Description	Subject	Expires On	Created	Actions
RootCA	/DC=local/DC=testlab/CN=tes	2027-Apr-14 22:51:26	2024-Jul-16 21:18:52	Actions

Certificates validation.

#### 9. Create a token on the SSM On-Prem: Select licensing Workspace.



CSSM Smart licensing page

#### 11. Look for your Local Virtual Account, then click New Token and click Proceed.

#### Smart Licensing



New token option.

#### 12. Select Create Token and copy it.

Create Registration To	ken	0	×
This dialog will generate the to	ken required to register your product instances with your Account .		
Local Virtual Account	Default		
Description			
Expire After	30 Days		
	Enter a value between 1 and 9999, but Cisco recommends a maximum of 30 days		
Max. Number of Uses			
	The token will be expired when either the expiration or the maximum uses is reached.		
Allow export-controlled fu	nctionality on the products registered with this token 1		
	Create Token	Cancel	1

Creation of new token.

ocal Virtual Account: Del	fault			_		
General	Licenses Product Instan	Registration	Token	×		
Local Virtual Account		NmNjYWM2NTAt E2OTMzNDEz%0 NqUGIVQmZqL38	NTUyOS002DdmLThhYWU AMzA5MT25YWhyZSINZk5 wQ3hhWkhp%0ARE8vRT0	ZJZIMJE2MTM5MjK5LT IY2dVINZOEEzcDI8NK I%3D%0A		
Description	This is the default vir	Press con + c to cop	y selected text to clipboard			
Default Local Virtual Account:	Yes					
Product Instance Registration The registration tokens below can be product to use the Smart Transport CSLU Transport URL. For legacy p recommended method is Smart Trans New Token	n Tokens e used to register new product instances to Registration URL. For products that supp products that still use Sount Call Home, yo isport. Please consultyour Products Confi	o this Local Virtual Acco ort Smart Licensing Usi ou must configure the "d iguration Guide for settle	unt. For products that suppo ng Policy that use cslu as tri estination address http* on t g the destination URL value	et Smart Transport, you must confi ansport, you must configure the "lic the product to use the Smart Call I 5.	gure the "license smart urf" rense smart transport csiu" i Home Registration URL. T	on the to use the he
	/					
Token	Expiration Date	Uses	Description	Export-Controlled	Created By	Actions
NmNjYWM2NTAINTUyOS0.	2023-Aug-29 20:35:30 (in 30 days)			Allowed	admin	Actions

Token details.

# 13. Open the **ISE GUI** and navigate to **Administration** > **Systems** > **Licensing**, then click **Registration details**, select the **SSM On-Prem server Host** method, and paste **the token**.

#### License Type

Choose Registration Details to acquire pre-purchased license entitlements. Choose Permanent License Reservation to enable all Cisco ISE licenses. Enter the required details to enable Cisco ISE licenses. When you click Register, you agree to the terms and conditions detailed in Smart Licensing Resources.

Sr	nart Lice	nsing Re	gistration
----	-----------	----------	------------

- O Permanent License Reservation
- Specific License Reservation

```
Registration Details
```

When you register Cisco ISE in the Cisco Smart Software Manager portal, a unique ID called the Registration Token is displayed in the portal. Copy the registration token displayed in the CSSM portal and paste it here.

Registration Token	I
NmNjYWM2NTAtNTUyOS00ZDdmLThhYWU	

Registration of licenses.

14. Enter the SSM On-Prem FQDN on SSM On-Prem server Host and click Register.



CSSM and ISE settings.



**Note**: It's important to have the **hostname** + **domain** configured on the **Host Common Name** because ISE uses this parameter in order to establish a connection with the CSSM. You can use an

**IP address** instead of the **hostname + domain**, however the recommendation is to use the **hostname + domain** 

15. And finally, the registration has been completed.



Registration completed.

#### Create certificates from Windows CA.

If you are the administrator of the Certificate Authority, you must do the next:

- 1. Open a web browser and navigate to http://localhost/certsrv/
- 2. Click on Request a certificate.

$\leftrightarrow \rightarrow$ C () localhost/certsrv/	Aø,	*	Φ	£∥	Ē	କ୍ଷ	8	
Microsoft Active Directory Certificate Services tegonetwork-WIN-G9MM5UQGG80-CA							Н	lome
Welcome								
Use this Web site to request a certificate for your Web browser, e-mail client, or other program. By using a certificate, you communicate with over the Web, sign and encrypt messages, and, depending upon the type of certificate you request, per	can v	verify othe	your ider r security	ntity to tasks	people	e you		
You can also use this Web site to download a certificate authority (CA) certificate, certificate chain, or certificate revocation request.	n list	(CRL	), or to vi	ew the	status	of a p	ending	)
For more information about Active Directory Certificate Services, see Active Directory Certificate Services Documentation	ŀ.							
Select a task: Request a certificate View the status of a pending certificate request Download a CA certificate, certificate chain, or CRL								

Request certificate.

#### 3. Click advanced certificate request.

Microsoft Active Directory Certificate Services ciscotac-ca					
Request a Certificate					
Select the certificate type: <u>Web Browser Certificate</u> <u>E-Mail Protection Certificate</u>					
Or, submit ar advanced certificate request.					

4. Open the CSR generated previously. Then copy the information and paste it on Saved request.



Submit certificate.

After clicking Submit the certificate is downloaded automatically.

5. Now download the CA certificate root. navigate back to <u>http://localhost/certsrv/</u> and select **Download** a CA Certificate, Certificate Chain, or CRL.

Welcome
Use this Web site to request a certificate for your Web browser, e-mail client, or other program. By using a certificate, you can verify your identity to people you communicate with over the Web, sign and encrypt messages, and, depending upon the type of certificate you request, perform other security tasks.
You can also use this Web site to download a certificate authority (CA) certificate, certificate chain, or certificate revocation list (CRL), or to view the status of a pending request.
For more information about Active Directory Certificate Services, see Active Directory Certificate Services Documentation.
Select a task: Request a certificate View the statue of a pending certificate request

Download root CA.

Download a CA certificate, certificate chain, or CRL

6. Download the CA certificate by using the encoding method as Base64.

Microsoft Active Directory Certificate Services - ciscotac-ca

#### Download a CA Certificate, Certificate Chain, or CRL

To trust certificates issued from this certification authority, install this CA certificate chain.

To download a CA certificate, certificate chain, or CRL, select the certificate and encoding method.



Base 64 option.

#### Add DNS records on Windows Server.

If you are the administrator, add the ISE and CSSM FQDNs.

1. Open the **DNS Manager**: Type "DNS" on the Windows finder and open the DNS app.

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DNS option.

## 2. Navigate to **Forward Lookup Zones** > And choose your domain.

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File Action View Help				
<ul> <li>DNS</li> <li>WIN-2UQRQO1VH75</li> <li>Forward Lookup Zones</li> <li>forwardLookup Zones</li> <li>forwardLookup Zones</li> <li>Reverse Lookup Zones</li> <li>Trust Points</li> <li>Conditional Forwarders</li> </ul>	Name msdcs sites tcp udp DomainDnsZones ForestDnsZones (same as parent folder) (same as parent folder) (same as parent folder) asc-ise32p3-1300 fmc win-2uqrqo1vh75	Type Start of Authority (SOA) Name Server (NS) Host (A) Host (A) Host (A) Host (A)	Data [207], win-2uqrqo1vh75.tes win-2uqrqo1vh75.testlab.l 10.4.23.39 10.4.23.21 10.4.23.61 10.4.23.39	Timestamp static static 7/16/2024 10:00:00 AM static static static static

DNS manager.

3. Right-click on a black space over the screen and select "New Host (A or AAAA)"

Update Server Data File	
Reload	
New Host (A or AAAA)	
New Alias (CNAME)	
New Mail Exchanger (MX)	
New Domain	
New Delegation	
Other New Records	
DNSSEC	>
All Tasks	>
Refresh	
Export List	
View	>
Arrange Icons	>