## ليجستو ديەمتلا ىلع CSSM نيوكت ISE مادختساب صيخارتلا

## تايوتحملا

| <u>قمدق مل ا</u>  |
|---|
| <u>قيساسألاا تابلطتملا</u>  |
| <u>تابل طتمل ا</u>  |
| <u>قمدختسمارا تانوكمارا</u>   |
| <u>ىنى وك ت ل ا</u>   |
| <u>قكېشلىل يىطيطختا، امسرلا،</u>  |
| <u>نم ESXi توبخت VMware.</u>  |
| . CSSM د. ياروأليا تېوكترلا   |
| <mark>ي⊵ذلا ٻاس ڇلا عم دادعالا يال علع CSSM چمد</mark>  |
| <u>. تېنرتنالياب لياصتاليا ليالخ نيم اقتېسيم زامجليا عبليع كې صياخليا CSSM ليچس :1 رايخليا</u>                                    |
| <u>.ت.ن.رت.نال.اب ل.اص.تا ن.ودب رت.وي.پمكارا ىلع كب صاخلاا CSSM ل.چس :2 رايخل.ا</u>   |
| <u>ISE. عم دادعال ا یل ع CSSM عم دادعال ا</u>   |
| <u>قدصم عجرم نم تاداهش ءاشنا Windows.</u>   |
| <u>. Windows Server. دارع DNS دارع DNS دارع DNS تالچس ةفاضا</u>   |
| امحال صاو عاطخأل ا فاشكتسا  |
| <u>ISE) يف أطخ).ل.وصول ل لباق ريغ IP ناونع/فيضمل.ا</u>  |
| <u>CSSM on-prem) يف أطخ ثدح) Cisco. دل ليوصول ارذعتي: SSO قمدخ</u>  |
| <u>ةرم ةلواحمليا يجري ،DNS ليحليل ليباق IP ناونع وأ فيضم مسا سيبل CSR يف عناشليا مساليا</u><br><u>(PREM علي CSSM يف أطخ).عرخأ</u> |
|   |

## ةمدقملا

باسحلاو (Cisco (ISE نم ةيوەلا ةمدخ كرحم عم مداخلا ىلع CSSM لماكت دنتسملا اذه فصي ةمات ةسالسب دادعإلا نمضي امم ،Cisco نم يكذلا.

## ةيساسألا تابلطتملا

تابلطتملا

ISE 3.x

+202304 رادصإلا 8 رادصإلا، (Cisco (CSSM) نم يكذلا جمانربلا ريدم

ةمدختسملا تانوكملا

- قيوەلا ةمدخ كرحم حيحصت
- SSM يرع PREM 8.20234

- Windows Active Directory 2016 (DNS certificate Authority services)
- VMWare ESXi ارادصإلا

ةصاخ ةيلمعم ةئيب يف ةدوجوملا ةزهجألاا نم دنتسملا اذه يف ةدراولا تامولعملا ءاشنإ مت. تناك اذإ .(يضارتفا) حوسمم نيوكتب دنتسملا اذه يف ةمدختسُملا ةزهجألا عيمج تأدب رمأ يأل لمتحملا ريثأتلل كمهف نم دكأتف ،ليغشتلا ديق كتكبش.

## نيوكتلا

ةكبشلل يطيطختلا مسرلا



ةماع ايجولوبوط

. ESXi نم ESXI دلع VMware.

1. يل ات ل طابترال مادخت سإ كنكمي. Cisco IOS®. ي ات ل عزنت ب مق: <u>https://software.cisco.com/download/home/286285506/type/286326948/release/8-202304</u>

2. يف ISO يف ESXi نم VMware.

DataCore. حفصتم < نيزختاا ةدحو ىلإ لقتنا

| vmware <sup>,</sup> Esxi"                 |                                 |   | root@10.4.23.59 +   | Help +   Q Search                            |
|---|---------------------------------|---|---|--|
| "T Navigator                              | Iocalhost.localdomain - Storage |   |   |  |
| Host     Manage     Monitor               | Datastores Adapters Devices     | Persistent Memory                           | owser C Refresh   🖧 Actions   | Q Search                                     |
| Virtual Machines                          | Name                            | Orive Type      Capacity      SSD 870.75 GB | Provisioned         Free         Type           1.42 GB         869.33 GB         VMFS6 | Thin provi      Access      Supported Single |
| ▼ ☐ datastore1<br>Monitor<br>More storage |                                 |   |   | 1 items                                      |
| P 🧕 Networking 1                          |                                 |   |   |  |

تانايبلا ضرعتسم مسق

## 3. (يرايتخإ) ديدج دلجم ءاشنإل ليلد ءاشنإ قوف رقنا.

| 🟹 Datastore browser   |                   | $\frown$              |           |       |
|-----------------------|-------------------|-----------------------|-----------|-------|
| 懀 Upload 🛛 🔒 Download | 🛃 Delete 🛛 🔒 Move | Copy Create directory | C Refresh |       |
| I datastore1          | 🚞 .sdd.sf         |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           |       |
| [datastore1]          |                   | 111                   |           |       |
|                       |                   |                       |           |       |
|                       |                   |                       |           | Close |

ليلدلا ءاشنإ

:CSSM دلجم ءاشنإ مت ،لاثملا اذه يف

| 🔁 Datastore browser |                        |                           |         |
|---------------------|------------------------|---------------------------|---------|
| 🛉 Upload 📑 Download | 🙀 Delete 🛛 🔒 Move 🕼 Co | py 🎦 Create directory 🕴 🧲 | Refresh |
| datastore1          | 🚞 .sdd.sf              |                           |         |
|                     | CSSM                   |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        |                           |         |
|                     |                        | ш                         |         |
| datastore1] CSSM/   |                        |                           |         |

Close

تادلجملا ءاشنإ

## ISO. فلم رتخأ مث ليمحت قوف رقنا .4

| C Open   |   |   |                       |        | $\times$ |
|--|---|---|-----------------------|--------|----------|
| $\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\clubsuit$ > This PC > Downloads   | ~ | U | Search Downloads      |        | Q        |
| Organize - New folder  |   |   |                       |        | 0        |
| Name         Image: Constraint of the system of the syst |   |   | No preview available. |        |          |
| ⇒ <sub>Ne</sub> ∨ <  |   |   |                       |        |          |
| File name: SSM_On-Prem-8-202304  |   | × | All files             |        | ~        |
|  |   |   | Open                  | Cancel |          |

ISO ليمحت

:CSSM دلجم يف ISO فلم دجوي نآلاا



ISO ليمحت لمتكا

### .VM ليجست / ءاشنإ < يرهاظلا زاهجلا ىلإ لقتنا .يرهاظلا زاهجلا ءاشنإب مق .5

| vmware' ESXi"  | root@10.4.23.59 •   Help •   Q Search   | - |
|--|---|---|
| Tavigator  | Di localhost.localdomain - Virtual Machines   |   |
| Host     Manage     Monitor                                      | Image: Status v       Ised space v       Guest OS v       Host name v       Host name v | ) |
| Virtual Machines  Virtual Machines  Storage  datastore1  Monitor | Quick filters Vo items to display   |   |
| More storage   |   |   |
|  |   |   |

01 ةديدج VM ةوطخ ءاشنإ

### .يلاتلا قوف رقناو ديدج يرهاظ زاهج ءاشنإ رتخأ .6

| 🔁 New virtual machine  |  |   |
|--|--|---|
| <ul> <li>Select creation type</li> <li>Select a name and guest OS</li> <li>Select storage</li> <li>Customize settings</li> </ul> | Select creation type<br>How would you like to create a Virtual Machine?  |   |
| 5 Ready to complete  | Create a new virtual machine<br>Deploy a virtual machine from an OVF or OVA file<br>Register an existing virtual machine | This option guides you through creating a new virtual<br>machine. You will be able to customize processors, memory,<br>network connections, and storage. You will need to install a<br>guest operating system after creation. |
| <b>vm</b> ware <sup>®</sup>  |  |   |
|  |  | Back Next Finish Cancel   |

02 ةديدج VM ةوطخ ءاشنإ

7. ثەيلاتلا تاملعملا نيوكتب مق مث:

- ايرهاظلا كزاهج مسا لخدأ :مسالا.
- الما يَحدم الما يُحدم الما يتحدم الما يتحدم الما يتحدم أوت العام الما يتحدم أوت العام الما يتحدم الما يتحدم ا
- ليغشتلا ماظن ةلئاع Guest OS: Linux.

(يلاتلا) Next قوف رقنا.

| 1 New virtual machine - CSSM TAC (E   | SXi 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 a name and guest OS<br>Specify a unique name and OS<br>Name<br>CSSM TAC<br>Virtual machine names can contain up to 80<br>Identifying the guest operating system here a<br>installation | characters and they must be unique within each ESXI instance. | system |
|   | Compatibility<br>Guest OS family  | ESXi 7.0 U1 virtual machine                                   | *      |
| <b>vm</b> ware <sup>.</sup>   | Guest OS version  | CentOS 7 (64-bit)   | ~      |
|   |   | Back Next Finish  | Cancel |

### . يلاتال قوف رقناو كيدل نيزختالا ةدحو ددح.

| 🔁 New virtual machine - CSSM TAC (  | ESXi 7.0 U1 virtual n  | nachine)   |                         |                     |               |  |                        |                  |           |
|---|--|--|-------------------------|---------------------|---------------|--|------------------------|------------------|-----------|
| <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 stora<br>Select the storage<br>Standard Pe<br>Select a datastor | ge<br>type and datastore<br>rsistent Memory<br>e for the virtual machine's | configuration fil       | es and all of its   | virtual disk  | ş.   |                        |                  |           |
|   | Name<br>datastore1   | ~  | Capacity ~<br>870.75 GB | Free ~<br>869.33 GB | Type<br>VMFS6 | ✓ The second | nin pro… ∽<br>upported | Access<br>Single | ~<br>tems |
|   |  |  |                         |                     |               |  |                        |                  |           |
| <b>vm</b> ware  |  |  |                         |                     | Back          | Next   | FI                     | nish             | Cano      |

نيزختلا تادحو ةمئاق

### 9. ةيلاتان تاملعملا نيوكت:

تابلطتم ىلع يلعفلا VCPU دادعإ دمتعي .ىندأ دحك 4 :ةيزكرملا ةجلاعملا ةدحو • كب صاخلا سايقملا



سباقملا ددع نع رظنلا ضغب 1 ىلع سبقم لكل زكارملا رادقم نييعت مزلي :ةظحالم ةيزكرم ةجلاعم ةدحو نيوكت نيوكت مزلي ،لاثملا ليبس ىلع .ةددحملا ةيرهاظلا سبقم لكل دحاو زكرمو سباقم 4 ةئيه ىلع تلوف 4 ةعرسب (vCPU

| - 🔲 CPU          | 4 ~ ()         |
|------------------|----------------|
| Cores per Socket | 1 v Sockets: 1 |
|                  |                |

ىونلا نيوكت

- تياباجيج 8 :ةركاذلا
- دادمإلا ىلع دادمإلا نييعت نم ققحتو تياباجيج 200 ةعس :ةتباثلا صارقألا كرجم قيقدلا.

| ▼ 🛄 Hard disk 1   | 200 GB ~  | $\otimes$ |
|-------------------|---|-----------|
| 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> |           |

```
صرقلا ةئيەت
```

• .ةقاطلا ليغشت دنع ليصوت ددحو E1000 ئياهم عون ددح :ةكبشلا ئياهم.

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

ةكبشلا تادادعإ نيوكت

• ISO فلم ددجو "ISO تانايب فلم رتخأ :DVD صارقأ / ةطوغضملا صارقألا كرجم



ISO ةروص

ةقباسلا تاوطخلا تنأ متي نإ ام دادعإ ةيلمعلا ةصالخ تققد عيطتسي تنأ.

#### 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

| 5 Ready to complete | CPU                  | 4 ~ ()                        |
|---------------------|----------------------|-------------------------------|
|                     | Memory               | 8 GB ~                        |
|                     | + 🔜 Hard disk 1      | 200 GB ~                      |
|                     | ► SCSI Controller 0  | VMware Paravirtual            |
|                     | SATA Controller 0    | 8                             |
|                     | USB controller 1     | USB 2.0 ~                     |
|                     | Network Adapter 1    | VM Network ~ Connect @        |
|                     | ►  in CD/DVD Drive 1 | Datastore ISO file  V Connect |
| <b>vm</b> ware      | ▶ 🛄 Video Card       | Specify custom settings ~     |

### 01 VM نيوكت صخلم

## (يلاتلا) Next قوف رقنا.

## .ءاەنإ قوف رقنا .10

| 1 New virtual machine - CSSM TAC (ESXi 7.0 U1 virtual machine)             |  |                             |  |  |  |
|--|--|-----------------------------|--|--|--|
| ✓ 1 Select creation type   | Ready to complete  |                             |  |  |  |
| <ul> <li>2 Select a name and guest OS</li> <li>3 Select storage</li> </ul> | Review your settings selection before finishing the wizard |                             |  |  |  |
| ✓ 4 Customize settings   | News   | 00011710                    |  |  |  |
| ✓ 5 Ready to complete  | Name   | detectors1                  |  |  |  |
|  | Datastore  | datastore1                  |  |  |  |
|  | Guest OS name  | CentOS 7 (64-bit)           |  |  |  |
|  | Compatibility  | ESXi 7.0 U1 virtual machine |  |  |  |
|  | vCPUs  | 4                           |  |  |  |
|  | Memory   | 8 GB                        |  |  |  |
|  | Network adapters   | 1                           |  |  |  |
|  | Network adapter 1 network                                  | VM Network                  |  |  |  |
|  | Network adapter 1 type                                     | E1000e                      |  |  |  |
|  | IDE controller 0   | IDE 0                       |  |  |  |
|  | IDE controller 1   | IDE 1                       |  |  |  |
|  | SCSI controller 0  | VMware Paravirtual          |  |  |  |
| <b>vm</b> ware   | SATA controller 0  | New SATA controller         |  |  |  |
|  | Hard disk 1  |                             |  |  |  |
|  |  | Back Next Finish Cancel     |  |  |  |

. PREM-ىلع CSSM ل يلوألا نيوكتلا

1. كب صاخلا VM جمانرب ددحو ةيضارتفالا ةزهجألا ىلإ لقتنا VMware ESXi، كب صاخلا Whore ESXi جمانرب يف ةقاطلا ليغشت قوف رقنا مث.

| vmware <sup>,</sup> ESXi <sup>-</sup>                                    |   |  |                                       |          |               |          |               |     | root@10.4.23.59 • | I Help   | - (   | 2 Search      |
|--|---|--|---------------------------------------|----------|---------------|----------|---------------|-----|-------------------|----------|-------|---------------|
| "  Navigator   |   | 🚯 localhost.localdomain - Virtual Machin | ies                                   |          |               |          |               |     |                   |          |       |               |
| ✓ ☐ Host<br>Manage   |   | 😭 Create / Register VM   👹 Consol        | Power o                               | Power    | off 🔢 Suspend | C Refres | h   💠 Actions |     |                   |          | Q Sei | arch          |
| Monitor  |   | Virtual machine                          | ~                                     | Status ~ | Used space    | ~ Guest  | os            | ~ 1 | Host name ~       | Host CPU | ~     | Host memory ~ |
| Virtual Machines   |   | CSSM TAC                                 |                                       | Normal   | 8.08 GB       | Cento    | S 7 (64-bit)  | l   | Unknown           | 0 MHz    |       | 0 MB          |
| <ul> <li>✓ E Storage</li> <li>✓ E datastore1</li> <li>Monitor</li> </ul> | 1 | Quick filters                            | ~                                     |          |               |          |               |     |                   |          |       | 1 items       |
| More storage   |   |  | CSSM TAC<br>Guest OS<br>Compatibility | CentOS   | 7 (64-bit)    |          |               |     |                   |          |       | O MHZ         |
|  |   |  | VMware Tools<br>CPUs                  | No<br>4  |               |          |               |     |                   |          |       | 0 B           |
|  |   |  | Memory                                | 8 GB     |               |          |               |     |                   |          |       | 8.08 GB       |

ةقاطلا ليغشت رايخ

2. حتف < مكحتلا ةدحو ددح .(VM) ةيضارتفالا ةزهجألا مكحت ةدحو ةرادإل ةددعتم تارايخ كيدل ضرعتسملا مكحت ةدحو.

| Iocalhost.localdomain - Virtual Machines |                            |  |  |  |  |  |
|--|----------------------------|--|--|--|--|--|
| 🚰 Create / Register VM                   | Console                    |  |  |  |  |  |
| Virtual machine                          | Popen browser console      |  |  |  |  |  |
| CSSM TAC                                 | Open console in new window |  |  |  |  |  |
| Quick filters                            | Launch remote console      |  |  |  |  |  |
| Face a MARE No. 9 and a Martine          | P Download VMRC            |  |  |  |  |  |

يرهاظلا زاهجلا ةرادإ تارايخ

3. كب ةصاخلا ةكبشلا تادادعإ نيوكتب مق.



.CSSM FQDN لحب موقي يذلا DNS مداخل IP ناونع نيوكت مەملا نم :ةظحالم

|  |   | Cisco SSM On-Pre  | m Installation                                  |                                  | ×             |
|--|---|---|---|----------------------------------|---------------|
| Svstem Set   | tinas:  |   |   |                                  |               |
| Hostname:  | SSM-On-Prem   |   |   |                                  |               |
| Message Of   | The Day: UNCLASSIFIE  | D 🔻 Security Prof   | ile: Standard 🔻                                 | FIPS 140-2 Mo                    | ode: Enablec▼ |
| Hardware S<br>CPU Model: Ir<br>Total System M<br>Available Disks | ettings:<br>htel(R) Xeon(R) CPU E5-26<br>Memory: 8174636 kB Fre<br>s: ☑ sda (200Gb) Enc | 99A v4 @ 2.40GHz<br>ee Memory: 4330340<br>rypt Drive with LUKS: | CPU Threads: 4 Arc<br>b kB<br>Disabled <b>T</b> | hitecture: 64-bit<br>Enable USB: | Disabled 🔻    |
| Network Se<br>Network De   | evice: ens192 -   |   |   |                                  |               |
| IPv4   | Configuration   | 1   | IPv6 Con  | figuration                       |               |
| Method:  | Static 🔻  | Method:   | Disabled 🔻                                      |                                  |               |
| Address:   | 10.4.23.60  | Address:  |   |                                  |               |
| Netmask:   | 255.255.248.0   | Prefix:   |   |                                  |               |
| Gateway:   | 10.4.16.1   | Gateway:  |   |                                  |               |
| Configure<br>10.4.23.2   | e DNS: Specify more th<br>9   | an one with commas  | 3   |                                  |               |
|  |   |   |   |                                  | Help OK       |

CSSM ةكبش تادادعإ نيوكت

## ةديدجلا CLI رورم ةملك نيوكتل قفاوم قوف رقنا.

ل. لوصولا رماوأ هجوم ةيؤر نم نكمتت ىتح يەتنتو تيبثتلا ةيلمع أدبت مث.

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

CSSM ل يلوألا نيوكتلا لمتكا

.//eip\_address\_cssm لخدأو ضرعتسم حتفا .5

| £ | - | ~ |
|---|---|---|
| ~ | _ | 0 |

| ı  | h | I | h | • |
|----|---|---|---|---|
| CI | S | C | 0 | 0 |

**On-Prem License Workspace** 

| 1 | Log into an Existing Account |
|---|------------------------------|
|   | User Name                    |
|   | Password                     |
|   | Log In                       |
|   | Forgot Password              |

Welcome to Smart Software Manager On-Prem where you can locally manage Smart Licensing and perform local Account Management functions for your organization.

CSSM لوخد ليجست ةحفص

:ةيضارتفالا دامتعالا تانايب مادختسإ

admin :مدختسملا مسا

دورمالا الالاتين Cisco Admin!2345

- .كتغل ددح .6
- .ةيموسرلا مدختسملا ةهجاول ةديدج رورم ةملك ءاشنإب مق .7
- 8. لائم) فيضملل عئاشلا مسالا نيوكتب مق. (hostname.yourdomain).

.فيضملل كرتشم مساك cssm.testlab.local نيوكت مت ،ةلاحلا هذه يف

### 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 St              | ring SSL Cert Checking require | the SSM On-Prem's "Host Co       | mmon Name" to match the "destination" URL address. For example:              |
| <ul> <li>Products using \$</li> </ul> | Smart Transport must use both  | the "license smart url" configur | ation and the "cssm.testlab.local" value in the URL string.                  |
| <ul> <li>Legacy products</li> </ul>   | using Smart Call Home must u   | use both the "destination addre  | ss http" configuration and the "cssm.testlab.local" value in the URL string. |
| If the above URLs do n                | ot match expectations, refer   | to the SSM On-Prem AdminV        | Vorkspace -> Secruity Widget to change the Host Common Name to the correct   |
| value.                                | Normalian and a state in and   | Inter in Admin Consultant        | Constitute Continuous and one has confirmed after the initial action         |
| 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.      |
| Lind Common Name                      |                                |                                  |  |
| ssm.testlab.local                     |                                |                                  |  |
|                                       |                                |                                  |  |
|                                       |                                |                                  |  |
|                                       |                                |                                  |  |
|                                       |                                |                                  |  |

.قيبطت قوف رقناو نيوكتلا ةحص نم ققحت .9

| System Language Selection | Temporary Password Reset            | Host Common Name              | Review and Confirm            |
|---------------------------|-------------------------------------|-------------------------------|-------------------------------|
| Once you click "Apply", y | you will be redirected to the login |                               |                               |
| Once you click "Apply", y | you will be redirected to the login |                               |                               |
| future leader             |                                     | h page where you will need to | login with your new password. |
| future logins.            |                                     |                               |                               |
| Review and Confirm        |                                     |                               |                               |
| Language Selected:        | English                             |                               |                               |
| Password Reset:           | Yes                                 |                               |                               |
| Host Common Name:         | sccmtac.ciscotac.com                |                               |                               |

Back Apply

CSSM. ل ةيلوألا تادادعإلا لامكإ مت

## يڬذلا باسحلا عم دادعإلا يلع CSSM جمد

مداخ يلع كب صاخلا CSSM ب يكذلا كباسح نارقإ يلإ جاتحت PREM.

1. إيلات الطابت رال مادخت ساب Cisco نم يكذل اكب اسح حتف ا

https://software.cisco.com/

ةيكذلا جماربلا ريدم مسق نمض صيخارتلا ةرادإ رتخأ مث .2.

| Smart Software Manager  | Download and Upgrade   | Traditional Licenses  |
|---|--|---|
| Track and manage your licenses.<br>Convert traditional licenses to<br>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<br>purchased through a Cisco<br>Enterprise Agreement. | eDelivery, version upgrade, and<br>more management functionality is<br>now available in our new portal. |
| Manage account >  | Access EA Workspace >  | Access MCE >  |
| صيخارتلا ةرادا رايخ   |  |   |

اذه ،ليلدلا اذه يف .يرهاظلا باسحلاو يكذلا باسحلا مسا خسناو نوزخملا ىل! لقتنا .3 و InternalTestDemoAccount67 رابتخإ

| Cisco Software Central  | cisco                                  |   |
|---|--|---|
| Scheduled Downtime Notification - License Registration Portal (         | LRP), Manage Smart Account & Account / | Administration, 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   Inventory   Convert to Smart Licensing   Reports   Preferences | 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   |  |   |

```
Cisco جمارب ةحفص
```

.Admin لمع ةحاسم رايخ ددجو CSSM ةيموسرلا مدختسملا ةهجاو حتفا .4

| On-Prem License Workspace      | cisco   | Admin Workspace 🛓 Hello, Local Admin Log Out              |
|--------------------------------|---|---|
| Smart Software Manager On-Prem | Request an Account<br>Get an Account for your organ<br>Administrator or System Oper<br>Request Access to an Existing<br>Submit a request for access to<br>Account Administrator for you<br>Manage Account | Administration Administration ator before it can be used. |
|                                |   |   |

ةيسيئرلا CSSM ةمئاق.

.تاباسحلا ددح مث .5

# On-Prem Admin Workspace

## Smart Software Manager On-Prem





## Generate CSR

| Common Name              |   |   |
|--------------------------|---|---|
| cssm.testlab.local       |   |   |
| 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 ليصافت

- اذه يف ."<u>Windows CA نم تاداهش ءاشنا</u>" عجار ،تامولعملا نم ديزمل :CSR عيقوتب مق .4 دنتسملا.
- .رذجلا قدصملا عجرملا ةداەش ليمحت .5

### Browser Certificate

| Add Generate CSR                   |                     |                   |   |
|------------------------------------|---------------------|-------------------|---|
| Iocalhost<br>(Default Certificate) | ☐   ☑ ■ =   certs   | Text              |   |
| CA Certificates                    | ← → · ↑ ► > This PC | > Desktop > certs | ~ |
| Description Si                     | CSSM cer            | Root CA           |   |

.ةعباتم ىلع رقنا

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.



×

.قفاوم ىلع رقناو رذجلا ةداەشلا رتخاو افصو لخدأ .

## **Upload** Certificate

| * Descri   | ption: | CA root                         |
|------------|--------|---------------------------------|
| * Certific | ate:   | Seleccionar archivo Root CA.cer |
|            |        |                                 |
|            |        |                                 |
| ок         | Cancel |                                 |

.فصولل رذجلا قدصماا عجرماا

## 7. تيوه ةداهش) CA لبق نم عقوملا CSR ليمحت.

| 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 items                        |                       |         |
| Add                  |                            | CSSM cer                       | Root CA               |         |
| CA Certificates      |                            |                                |                       |         |
| (Default Certificate | e)                         | 1                              |                       |         |
| localhost            |                            | ← → ∽ ↑ <sup>I</sup> « Desktop | > certs ~             | U       |
| Add Generate CS      | R                          | File Home Share Vi             | iew                   |         |
| Browser Certificate  |                            | 📜 📝 📜 🛛 certs                  |                       | -       |

CSSM. فيرعت ةدحو ليمحت



انيدل قدصملا عجرملا يف ةطيسولا ةداەشلا دجوت ال ،انتلاح يف :ةظحالم :ةظحالم. نوكت ةطيسولا ةداەشلا نإف ،كتينب يف ةطيسو ةداەش مدختست تنك اذإ ،كلذ عمو .ةيمازل

.نيتداەشلا الك تيبثت نم دكأت ،كلذ دعب

### 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=test | 2027-Apr-14 22:51:26 | 2024-Jul-16 21:18:52  | Actions                      |   |

.تاداەشلا ةحص نم ققحتلا

### .صيخرتال لمع ةحاسم ديدحت :SSM On-Prem ىلع زيمم زمر ءاشنإ .9



## .ةعباتم قوف رقناو ديدج زيمم زمر قوف رقنا مث ،يلحملا يرهاظلا باسحلا نع ثحبا. 11

Smart Licensing

| Alerts Inventory Conv   | ert to Smart Licensing Reports Preferences Activity  |
|---|--|
| Local Virtual Account: Default  |  |
| General Licenses  | Product Instances SL Using Policy Event Log  |
| Local Virtual Account   |  |
| Description   | This is the default virtual account created during company account creation.   |
| Default Local Virtual Account:  | Yes  |
| Product Instance Registration Tokens<br>The registration tokens below can be used to regis<br>product to use the Smart Transport Registration U<br>CSLU Transport URL. For legacy products that s<br>recommended method is Smart Transport. Please<br>New Token | ter new product instances to this Local Virtual Account. For products that support Smart Transport, you must configure the "license smart url" on the<br>IRL. For products that support Smart Licensing Using Policy that use cslu as transport, you must configure the "license smart transport cslu" to use the<br>till use Smart Call Home, you must configure the "destination address http" on the product to use the Smart Call Home Registration URL. The<br>consult your Products Configuration Guide for setting the destination URL value. |
| ديدج زيمم زمر رايح.   |  |

## .ەخسنو زيمم زمر ءاشنإ ددح .12

| Create Registration Tok                           | en   | 0     | × |
|---|--|-------|---|
| This dialog will generate the toke                | n 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. |       |   |
| <ul> <li>Allow export-controlled funct</li> </ul> | lionality on the products registered with this token $^{f 0}$                        |       |   |
|   | Create Token   | Cance | d |
|   |  |       |   |

ديدج زيمم زمر ءاشنإ.

| ocal Virtual Account:   | Default  |   |  |   |  |   |                                       |
|---|--|---|--|---|--|---|---------------------------------------|
| General   | Licenses   | Product Instan  | Registration   | Token   | ×  |   |                                       |
| Local Virtual Account   |  |   | NmNjYWM2NTAt<br>E2OTMzNDE2%0<br>NqUGIVQmZqL3   | NTUyOS00ZDdmLTh<br>IAMzA5MTZ5YWhyZ<br>EwQ3hhWkhp%0AR8   | hYWUłzjzimje2MTM5Mjk5LT<br>SINZX5IY2dIVINZOEEzcDIsNk<br>8vR70%3D%0A  |   |                                       |
| Description   |  | This is the default vi  | Press cliq + c to coj  | by selected text to clip  | board  |   |                                       |
| Default Local Virtual Acc   | ount:  | Yes   | /  |   |  |   |                                       |
| The registration tokens below<br>product to use the Smart Trai<br>CSLU Transport URL. For k<br>recommended method is Sma<br>New Token | can be used to regist<br>hsport Registration UF<br>tgacy products that st<br>rt Transport. Please of | er new product instances to<br>RL. For products that supp<br>ill use Smirt Call Home, yo<br>consult your Products Confi | o this Local Virtual Acco<br>ort Smart Licensing Us<br>ou must configure the *c<br>iguration Guide for setti | unt. For products that<br>ing Policy that use cs<br>testination address ht<br>ng the destination UR | t support Smart Transport, you must<br>lu as transport, you must configure t<br>tp* on the product to use the Smart<br>IL value. | configure the "license smar<br>he "license smart transport i<br>Call Home Registration UR | urt" on the<br>slu" to use the<br>The |
|   |  |   |  |   | 10 <b>v</b> Sh   | owing Page 1 of 1(1 Records)  | н н н                                 |
| Token   |  | -   | Unan   |   |  |   |                                       |
| Ponet I   | Expiration Di  | ane   | Uses   | Description   | Export-Controlled  | Created By  | Actions                               |

زيمملا زمرلا ليصافت.

### مث ،صيخرتلا < ةمظنألا < ةرادإلا ىلإ لقتناو (ISE) ةيموسرلا مدختسملا ةهجاو حتفا .13 مداخلا ىلع دوجوملا SSM مداخ فيضم ةقيرط ددحو ،ليجستلا ليصافت قوف رقنا زيمملا زمرلا قصلأو ،يلوألا.

### 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.

- Smart Licensing Registration
- O Permanent License Reservation
- Specific License Reservation

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              |
|---------------------------------|
| NmNjYWM2NTAtNTUyOS00ZDdmLThhYWU |

.صخرلا ليجست

.لجس ةقطقطو فيضم لدان Prem ىلع SSM ىلع FQDN ىلع SSM لا تلخد .14

Registration Details



.ISE و CSSM تادادع]



نأل فيضملل عئاشلا مسالا ىلع لاجملا + فيضملا مسا نيوكت مەملا نم :ةظحالم الدب IP ناونع مادختسإ كنكمي .CSSM ب لاصتا ءاشنإل ةملعملا ەذە مدختسي ISE لاجملl + hostname مادختسإ يه ةيصوتلا نإف كلذ عمو ،hostname + domain نم



.ةداەش بلط

.ةمدقتم ةداەش بلط ىلع رقنا .3

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

مدقتم ةداەش بلط.

### .ظوفحملا بلطلا يف اهقصلو تامولعملا خسنا مث .اقباس هؤاشنإ مت يذلا CSR حتفا .4



ةداەشلا لاسرا.

### ايئاقلت اەليزنت متي ةداەشلا لاسرا قوف رقنلا دعب.

5. مداهش ليزنت ددحو <u>/http://localhost/certsrv</u> ىلإ لقتنا. CA ةداهش رذج ليزنتب مق نآلا. وأ تاداهشلا قلسلس وأ 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 status of a pending certificate request Download a CA certificate, certificate chain, or CRL

رذجلا قدصملا عجرملا ليزنت.

.Base64 زيمرتلا بولساً مادختساب CA ةداهش ليزنتب مق .6

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.

## CA certificate: Current [ciscotac-ca] Encoding method: ODER @ Base 64 Download CA certificate

Download CA certificate chain Download latest base CRL

.64 ةدعاق رايخ

.Windows Server ىلع DNS تالجس ةفاضإ

.CSSM FQDN و ISE تاكبش ةفاضإب مقف ،لوؤسملا تنك اذإ

.1 قيبطت حتفاو Windows Finder ىلع "DNS" بتكا :DNS قرادإ حتفا .1

| Recycle      | æ        | ۵          | ŝ |  |   |   |          |   |   |      |
|--------------|----------|------------|---|--|---|---|----------|---|---|------|
|              | Best r   | natch      |   |  |   |   |          |   |   |      |
| keyclo       | 2        | DNS<br>App |   |  |   |   |          |   |   |      |
|              | Comn     | nand       |   |  |   |   |          |   |   |      |
| 0,           | •        | ONS        |   |  |   |   |          |   |   |      |
| activati     |          |            |   |  |   |   |          |   |   |      |
|              |          |            |   |  |   |   |          |   |   |      |
| activatic    |          |            |   |  |   |   |          |   |   |      |
| cert         |          |            |   |  |   |   |          |   |   |      |
| Cert2        |          |            |   |  |   |   |          |   |   |      |
|              |          |            |   |  |   |   |          |   |   |      |
| 4            | <u>م</u> | DINS       |   |  | Ħ | 0 | <b>L</b> | 4 | e |      |
| ا<br>DI رايخ | NS.      |            |   |  |   |   | <br>     |   |   | <br> |

## .كب صاخلا لاجملا رتخاو < ەيجوتلا ةداعإ ثحب قطانم ىلإ لقتنا .2

| 🏯 DNS Manager  |  |  |   | - 🗆 X  |
|--|--|--|---|--|
| File Action View Help  | 100  |  |   |  |
| <ul> <li>DNS</li> <li>WIN-2UQRQO1VH75</li> <li>Forward Lookup Zones</li> <li>imsdcs.testlab.local</li> <li>imsteatlab.local</li> <li>Reverse Lookup Zones</li> <li>Trust Points</li> <li>Conditional Forwarders</li> </ul> | Name<br>, msdcs<br>,sites<br>,tcp<br>,udp<br>DomainDnsZones<br>ForestDnsZones<br>(same as parent folder)<br>(same as parent folder)<br>(same as parent folder)<br>fmc<br>vin-2uqrqo1vh75 | Type<br>Start of Authority (SOA)<br>Name Server (NS)<br>Host (A)<br>Host (A)<br>Host (A)<br>Host (A) | Data<br>[207], win-2uqrqo1vh75.tes<br>win-2uqrqo1vh75.testlab.l<br>10.4.23.39<br>10.4.23.21<br>10.4.23.61<br>10.4.23.39 | Timestamp<br>static<br>static<br>7/16/2024 10:00:00 AM<br>static<br>static<br>static<br>static |
|  |  |  |   |  |

.DNS ريدم

"(AAA وأ A) ديدج فيضم ددحو ةشاشلا ىلع ءادوس ةحاسم قوف نميألا سواملا رزب رقنا .3

| 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           | > |

ةمجرتاا مذه لوح

تمجرت Cisco تايان تايانق تال نم قعومجم مادختساب دنتسمل اذه Cisco تمجرت ملاعل العامي عيمج يف نيم دختسمل لمعد يوتحم ميدقت لقيرشبل و امك ققيقد نوكت نل قيل قمجرت لضفاً نأ قظعالم يجرُي .قصاخل امهتغلب Cisco ياخت .فرتحم مجرتم اممدقي يتل القيفارت عال قمجرت اعم ل احل اوه يل إ أم اد عوجرل اب يصوُتو تامجرت الاذة ققد نع اهتي لوئسم Systems الما يا إ أم الا عنه يل الان الانتيام الال الانتيال الانت الما