

Implante o SSM no local no ESXI e registre os switches Catalyst 9000

Contents

[Introdução](#)

[Pré-requisitos](#)

[Requisitos](#)

[Componentes Utilizados](#)

[Configurar](#)

[Diagrama de Rede](#)

[Configurações](#)

[Implantar SSM no local no ESXI](#)

[Registrar switches Catalyst 9000 Series](#)

[Informações Relacionadas](#)

Introdução

Este documento descreve como implantar o SSM no local no ESXI e registrar os Switches da série Catalyst 9000.

Pré-requisitos

Requisitos

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Configuração básica do VMware ESXi.
- Licenciamento inteligente usando política para switches Cisco Catalyst 9000 Series.
- Familiaridade com o Smart Software Manager no local.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

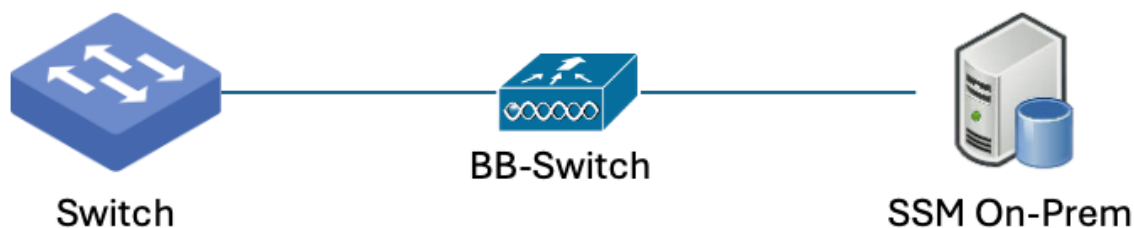
- C9200
- C9300
- C9400
- C9500
- C9600

- Software Cisco IOS® XE &17.X

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Configurar

Diagrama de Rede

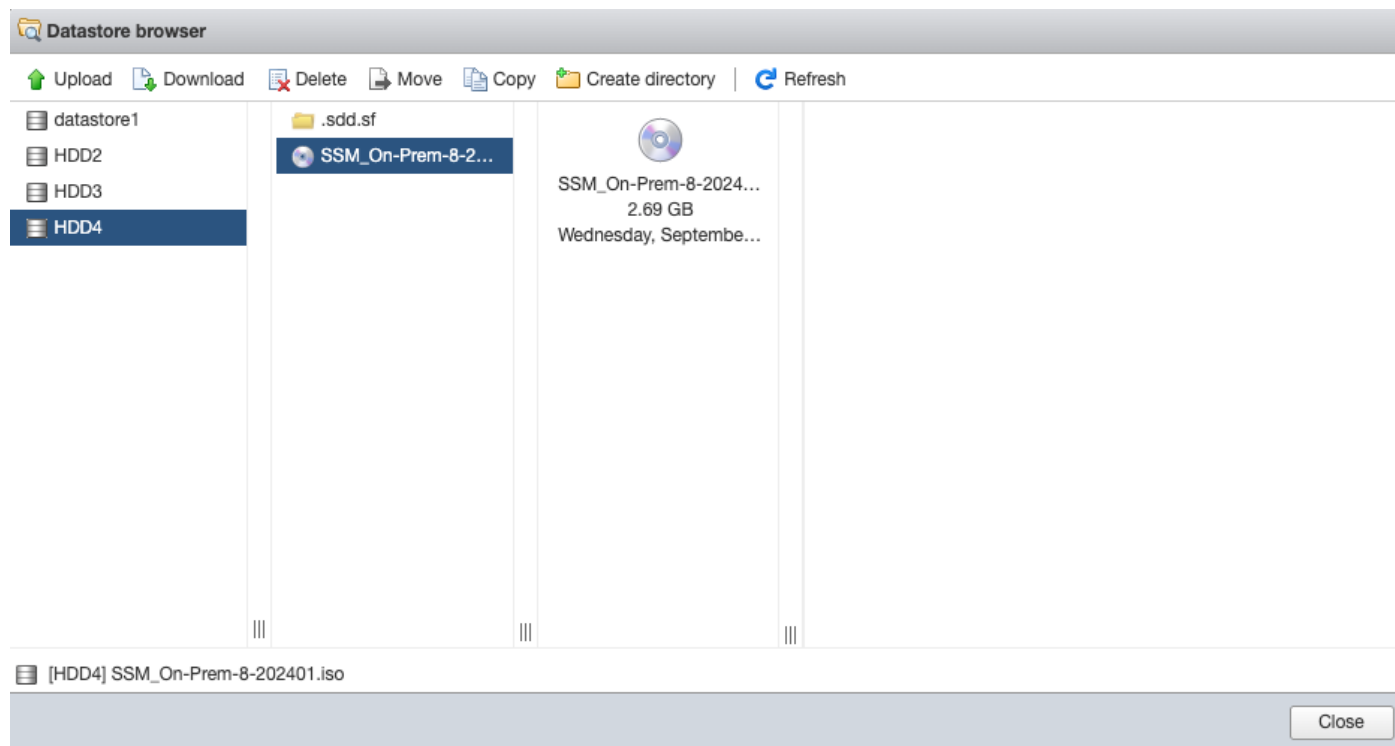


Configurações

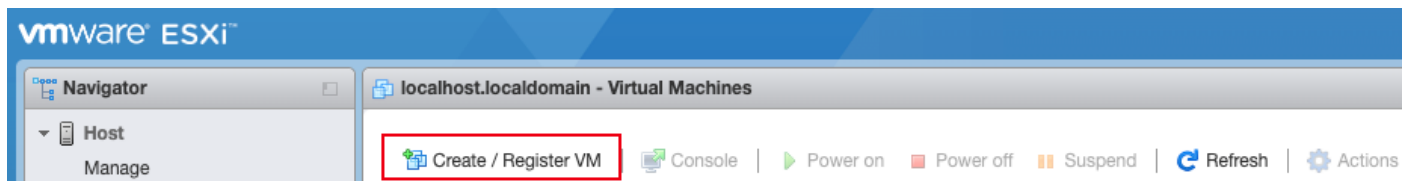
Implantar SSM no local no ESXI

1. Faça download da imagem ISO do CCO e carregue-a no armazenamento de dados ESXi.

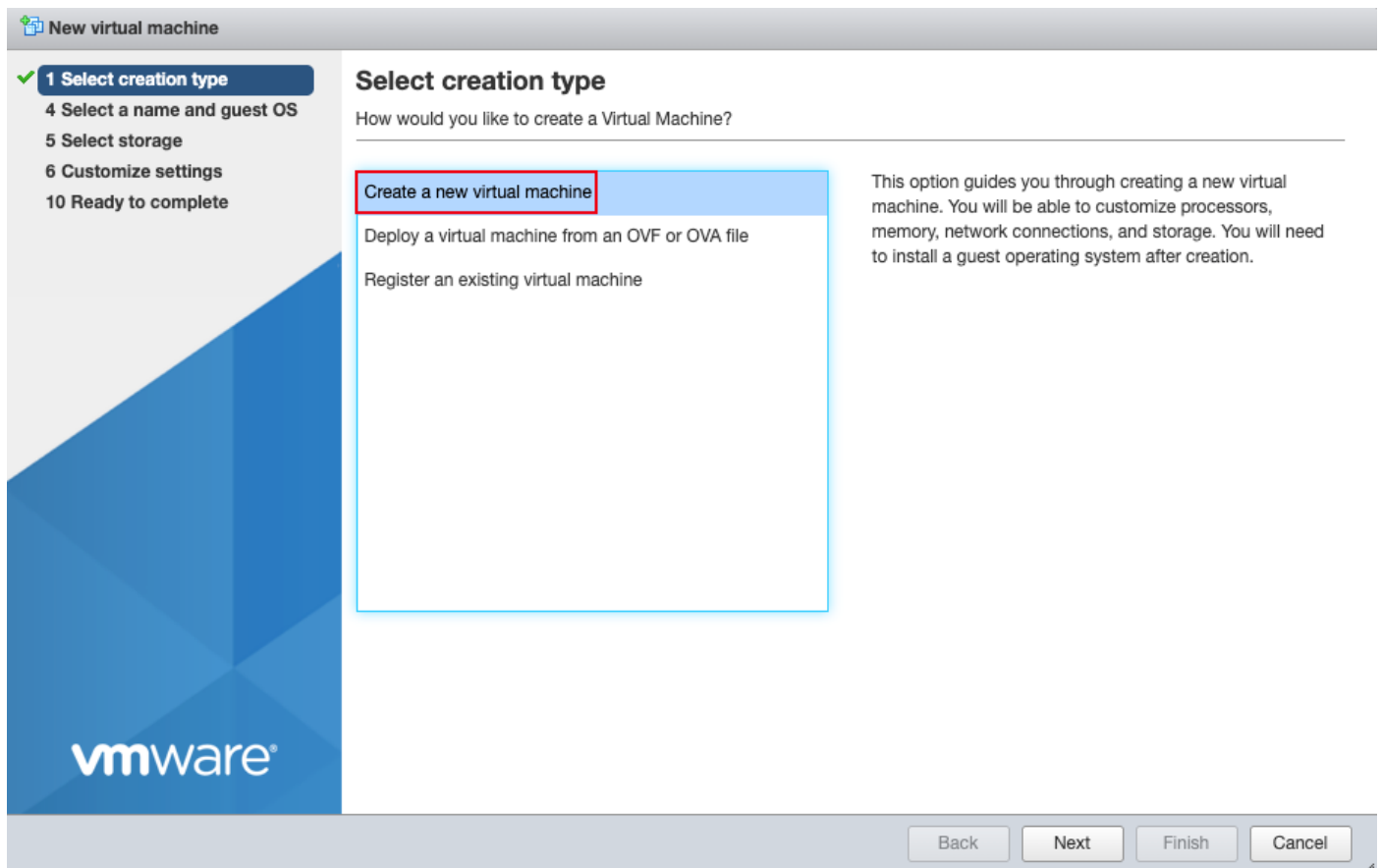
Link da imagem: [Gerenciador de software inteligente no local - 8 202401](#)



2. Clique em Create / Register VM no canto superior esquerdo do ESXI para criar uma máquina virtual.



3. Na página Selecionar tipo de criação, selecione Criar uma nova máquina virtual e clique em próximo para continuar com a próxima etapa.



4. Selecione um nome de VM e sistema operacional convidado, verifique se o tipo de sistema operacional está definido como Linux e se o sistema operacional convidado está definido como CentOS 7 64 bits ou Linux Other 64 bits.

New virtual machine - DEMO-SSM-ON-PREM (ESXi 6.5 virtual machine)

1 Select creation type

4 Select a name and guest OS

5 Select storage

6 Customize settings

10 Ready to complete

Select a name and guest OS

Specify a unique name and OS

Name

DEMO-SSM-ON-PREM

Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Compatibility

Guest OS family

Guest OS version

ESXi 6.5 virtual machine

Linux

Other Linux (64-bit)

Back Next Finish Cancel

5. Selecione armazenamento para implantação no local. Verifique se há espaço suficiente.

New virtual machine - DEMO-SSM-ON-PREM (ESXi 6.5 virtual machine)

1 Select creation type

4 Select a name and guest OS

5 Select storage

6 Customize settings

10 Ready to complete

Select storage

Select the datastore in which to store the configuration and disk files.

The following datastores are accessible from the destination resource that you selected. Select the destination datastore for the virtual machine configuration files and all of the virtual disks.

Name	Capacity	Free	Type	Thin pro...	Access
datastore1	922.75 GB	918.34 GB	VMFS5	Supported	Single
HDD2	930.25 GB	67.65 GB	VMFS6	Supported	Single
HDD3	930.25 GB	284.38 GB	VMFS6	Supported	Single
HDD4	930.25 GB	928.83 GB	VMFS6	Supported	Single

4 items

Back Next Finish Cancel

6. Configure o hardware da máquina virtual e as opções adicionais da máquina virtual, a

configuração da máquina virtual deve atender a esses requisitos de configuração, conforme listado na tabela.

	Small	Medium	Large	Maximum
Products	4000	50,000	100,000	300,000
Hard Disk	200 Gig	200 Gig	200 Gig	200 Gig
Memory	8 Gigabyte	8 Gigabyte	16 Gigabyte	16 Gigabyte
vCPU	2 vCPU	4 vCPU	6 vCPU	8 vCPU

New virtual machine - DEMO-SSM-ON-PREM (ESXi 6.5 virtual machine)

✓ 1 Select creation type
 ✓ 4 Select a name and guest OS
 ✓ 5 Select storage
 ✓ 6 Customize settings
 10 Ready to complete

Customize settings

Configure the virtual machine hardware and virtual machine additional options

Virtual Hardware VM Options

Add hard disk Add network adapter Add other device

CPU	4		
Memory	8	GB	
Hard disk 1	200	GB	
SCSI Controller 0	LSI Logic Parallel		
USB controller 1	USB 2.0		
Network Adapter 1	VM Network		☒ Connect
CD/DVD Drive 1	Datastore ISO file		
Status	☒ Connect at power on		
CD/DVD Media	[HDD4] SSM_On-Prem-8-202401.iso		Browse...
Virtual Device Node	IDE controller 0	Master	
Video Card	Specify custom settings		

Back Next Finish Cancel

7. Revise sua seleção de configurações antes de concluir o assistente. Após a confirmação, clique no botão Finish para concluir a implantação da máquina virtual.

New virtual machine - DEMO-SSM-ON-PREM (ESXi 6.5 virtual machine)

✓ 1 Select creation type
✓ 4 Select a name and guest OS
✓ 5 Select storage
✓ 6 Customize settings
✓ 10 Ready to complete

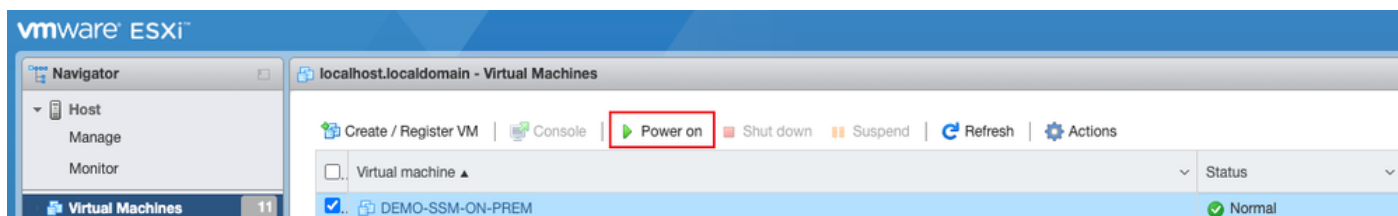
Ready to complete

Review your settings selection before finishing the wizard

Name	DEMO-SSM-ON-PREM
Datastore	HDD4
Guest OS name	Other Linux (64-bit)
Compatibility	ESXi 6.5 virtual machine
vCPUs	4
Memory	8 GB
Network adapters	1
Network adapter 1 network	VM Network
Network adapter 1 type	E1000
IDE controller 0	IDE 0
IDE controller 1	IDE 1
SCSI controller 0	LSI Logic Parallel
Hard disk 1	
Capacity	200GB
Datastore	[HDD4] DEMO-SSM-ON-PREM/
Mode	Dependent
Provisioning	Thick provisioned, lazily zeroed
Controller	SCSI controller 0 : 0
CD/DVD drive 1	
Backing	[HDD4] SSM_On-Prem-8-202401.iso
Connected	Yes
USB controller 1	USB 2.0

Back Next Finish Cancel

8. Em seguida, ligue a máquina virtual recém-implantada para iniciar o processo de instalação. Localize a VM que você acabou de criar em Máquinas virtuais no ESXI, selecione ela e clique em Ligar acima.



9. Abra o console para a VM e escolha Instalar Cisco Sm On-Prem. Esse estado permanece por aproximadamente 1 minuto e, em seguida, ele entra na página de configurações básicas.

Cisco Smart Software Manager On-Prem

Install Cisco SSM On-Prem

Test this media & install Cisco SSM On-Prem

Troubleshooting



Press Tab for full configuration options on menu items.

Automatic boot in 44 seconds...

```
DEMO-SSM-ON-PREM Actions X
```

```
- Press the <ENTER> key to begin the installation process.
```

```
[ 8.404971] dracut-pre-udev[342]: modprobe: ERROR: could not insert 'floppy':  
No such device  
[ OK ] Started Device-Mapper Multipath Device Controller.  
Starting Open-iSCSI...  
[ OK ] Started Show Plymouth Boot Screen.  
[ OK ] Reached target Paths.  
[ OK ] Reached target Basic System.  
[ OK ] Started Open-iSCSI.  
Starting dracut initqueue hook...  
[ 9.693637] sd 2:0:0:0: [sda] Assuming drive cache: write through  
[ 12.293693] dracut-initqueue[693]: mount: /dev/sr0 is write-protected, mounting read-only  
[ OK ] Started Device-Mapper Multipath Device Controller.  
Starting Open-iSCSI...  
[ OK ] Started Show Plymouth Boot Screen.  
[ OK ] Reached target Paths.  
[ OK ] Reached target Basic System.  
[ OK ] Started Open-iSCSI.  
Starting dracut initqueue hook...  
[ 12.293693] dracut-initqueue[693]: mount: /dev/sr0 is write-protected, mounting read-only  
[ OK ] Created slice system-checkisomd5.slice.  
Starting Media check on /dev/sr0...  
/dev/sr0: 291881cc07d4c6c648635e41e57a0dc5  
Fragment sums: 11fef97cf5478a6814e7cbb2aeb8d8c5cf9cc145d61362bd82d24826b23d  
Fragment count: 20  
Press [Esc] to abort check.  
Checking: 013.3%_
```

10. Nesta página, você precisa preencher algumas configurações locais do SSM, como hostname, ip, dns e assim por diante.

DEMO-SSM-ON-PREM Cisco SSM On-Prem Installation

System Settings:

Hostname: SSM-On-Prem

Message Of The Day: UNCLASSIFIED Security Profile: Standard FIPS 140-2 Mode: Enablec

Hardware Settings:

CPU Model: Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz CPU Threads: 4 Architecture: 64-bit
Total System Memory: 8174688 kB Free Memory: 7414008 kB
Available Disks: ☒ sda (200Gb) Encrypt Drive with LUKS: Disabled Enable USB: Disabled

Network Settings:

Network Device: ens33

IPv4 Configuration

Method: Static

Address:

Netmask:

Gateway:

IPv6 Configuration

Method: Disabled

Address:

Prefix:

Gateway:

Configure DNS: Specify more than one with commas

Help OK

11. Depois de clicar em OK, o sistema solicitará que você defina uma senha. As senhas inseridas duas vezes devem ser as mesmas. Essa senha é usada para fazer login no CLI posteriormente.

DEMO-SSM-ON-PREM Cisco SSM On-Prem Installation

System Settings:

Hostname: SSM-On-Prem

Message Of The Day: UNCLASSIFIED Security Profile: Standard FIPS 140-2 Mode: Enablec

Hardware Settings:

CPU Model: Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz CPU Threads: 4 Architecture: 64-bit
Total System Memory: 8174688 kB Free Memory: 7414008 kB
Available Disks: ☒ sda (200Gb) Encrypt Drive with LUKS: Disabled Enable USB: Disabled

Network Settings:

Network Device: ens33

IPv4 Configuration

Method: Static

Address: 192.168.1.1
Netmask: 255.255.255.0 Prefix:
Gateway: 192.168.1.254 Gateway:

Configure System Password

Password:

Verify Password:

Cancel OK

Configure DNS: Specify more than one with commas

192.168.1.253

Help OK

12. Em seguida, o SSM On-Prem continua a ser instalado. Todo o processo leva cerca de 30 minutos. Depois de concluída, a VM é iniciada automaticamente. Em seguida, o SSM On-Prem continua a ser instalado.

```
DEMO-SSM-ON-PREM
Starting automated install.....
Checking software selection
Generating updated storage configuration
Checking storage configuration...

=====
Installation

1) [x] Language settings                2) [x] Time settings
   (English (United States))           (Etc/UTC timezone)
3) [x] Installation source              4) [x] Software selection
   (Local media)                       (Custom software selected)
5) [x] Installation Destination         6) [x] Kdump
   (Custom partitioning selected)       (Kdump is enabled)
7) [x] Network configuration
   (Wired (ens32) connected)

=====
Progress
Setting up the installation environment
.
Creating disklabel on /dev/sda
.
Creating xfs on /dev/sda1
.
Creating lvm pv on /dev/sda2
.
Creating xfs on /dev/mapper/vg1-lv_home
.
Creating xfs on /dev/mapper/vg1-lv_audit
.
Creating xfs on /dev/mapper/vg1-lv_log
.
Creating xfs on /dev/mapper/vg1-lv_var

[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log  Switch tab: Alt+Tab | Help: F1
```

13. Após a conclusão da reinicialização, você pode fazer login na CLI para verificar. O nome de usuário é admin e a senha é a que você acabou de definir.

```
SSM-On-Prem login:

#####
#                               Authorized access only?                               #
#                               #                                                       #
# Disconnect IMMEDIATELY if you are not an authorized user!!!                       #
# All actions Will be monitored and recorded                                         #
#####

SSM-On-Prem login: admin
Password:
Last login: Tue Sep 2 06:24:16 UTC 2025 on tty1
Last login: Tue Sep 2 06:48:51 on tty1
admin@SSM-On-Prem ~1$
```

14. Após a conclusão da instalação, você pode usar seu navegador para fazer login em <https://x.x.x.x:8443> e prosseguir para a próxima etapa. Quando a tela de login for exibida, faça login usando essas credenciais—admin/CiscoAdmin!2345, Essa é a senha inicial para o primeiro

login no local.



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.

15. Depois de clicar em Log In, a implantação On-Prem entra no próximo estágio, começando com System Language Selection.

Welcome to Cisco Smart Software Manager On-Prem

STEP 1
System Language Selection

STEP 2
Temporary Password Reset

STEP 3
Host Common Name

STEP 4
Review and Confirm

Please select your preferred system wide language from the list of supported languages here. Your language selection may be changed latter in the Settings widget under the Language tab.

After you select and save a language, refresh the screen by navigating to another screen and then return to your original screen. The screen will now open in your selected language.

Select the default language

English

Next

16. Na página Redefinição Temporária de Senha, esta etapa redefine a senha da GUI.

Welcome to Cisco Smart Software Manager On-Prem

STEP 1 System Language Selection	STEP 2 Temporary Password Reset	STEP 3 Host Common Name	STEP 4 Review and Confirm
-------------------------------------	------------------------------------	----------------------------	------------------------------

The one-time temporary password has been provided to allow for initial access to Cisco SSM On-Prem installation. For your security, the temporary password may only be used once, and must now be changed in order to continue the configuration procedure.

The new password may not be the same as the default, and must be at least 15 characters. It should include at least 1 uppercase letter, 1 lowercase letter, and 1 number. Passwords are case-sensitive. It may include symbols, but not these: = ? < > () ' * / \ &. When all requirements are met, you will be able to change the password. Securely store the password as it will be needed each time the admin user logs in.

Once you have successfully changed the temporary password, you will be directed back the Login Screen.

Password *

Reenter Password *

Back Next

17. Em seguida, defina o nome comum do host.

Welcome to Cisco Smart Software Manager On-Prem

STEP 1 System Language Selection	STEP 2 Temporary Password Reset	STEP 3 Host Common Name	STEP 4 Review and Confirm
-------------------------------------	------------------------------------	----------------------------	------------------------------

Products that support String SSL Cert Checking require the SSM On-Prem's "Host Common Name" to match the "destination" URL address. For example:

- Products using Smart Transport must use both the "license smart url" configuration and the "10.124.38.112" value in the URL string.
- Legacy products using Smart Call Home must use both the "destination address http" configuration and the "10.124.38.112" value in the URL string.

If the above URLs do not match expectations, refer to the SSM On-Prem AdminWorkspace -> Security Widget to change the Host Common Name to the correct value.

The option to configure alternative names (SAN) is available in Admin Console under Security -> Certificates and can be configured after the initial setup.

* Host Common Name

10.124.38.112

Back Next

18. Finalmente, na página Revisar e Confirmar, revise a configuração feita.

Welcome to Cisco Smart Software Manager On-Prem

STEP 1
System Language Selection

STEP 2
Temporary Password Reset

STEP 3
Host Common Name

STEP 4
Review and Confirm

Once you click "Apply", you will be redirected to the login page where you will need to login with your new password. Please ensure you have securely stored your password for future logins.

Review and Confirm
Language Selected: English
Password Reset: Yes
Host Common Name: 10.124.38.112

[Back](#) [Apply](#)

19. Quando você clica no botão Aplicar, a página salta. Faça login com sua nova senha. A instalação do SSM On-Prem está concluída.

Log into an Existing Account

User Name
admin

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.

Registrar switches Catalyst 9000 Series

1. Clique em Admin Workspace no canto superior direito para entrar no espaço de trabalho de administração local.

On-Prem License Workspace

Smart Software Manager On-Prem


License
[Smart Licensing](#)
Track and manage Smart Licensing


Administration
[Request an Account](#)
Get an Account for your organization. The Account must be approved by your System Administrator or System Operator before it can be used.
[Request Access to an Existing Account](#)
Submit a request for access to an existing local Account. Approval must be granted by a Smart Account Administrator for your local Account.
[Manage Account](#)
Modify the properties of your Accounts and associate existing User IDs with Accounts.

[Admin Workspace](#)  Hello, Local Admin

2. Clique em Contas à esquerda, crie uma conta e ativea, certifique-se de que o status da conta seja Ativo. Para obter informações sobre como criar uma nova conta local e registrar novamente uma conta, consulte as páginas 77 a 82 do [Guia do usuário local do Cisco Smart Software Manager](#) .

On-Prem Admin Workspace

Smart Software Manager On-Prem

 Access Management
  Users
  Accounts

Accounts

Account Account Requests Event Log

New Account 

Search by Account Name

Accounts

Account Account Requests Event Log

New Account 

Search by Account Name

Showing All 1 Records

Account	Requested By	Cisco Smart Account	Cisco Virtual Account	Account Status	Actions
		Cisco Systems,...		Active	Actions

Showing All 1 Records

3. Assegure a acessibilidade da rede para comunicação iniciada por instância do produto.

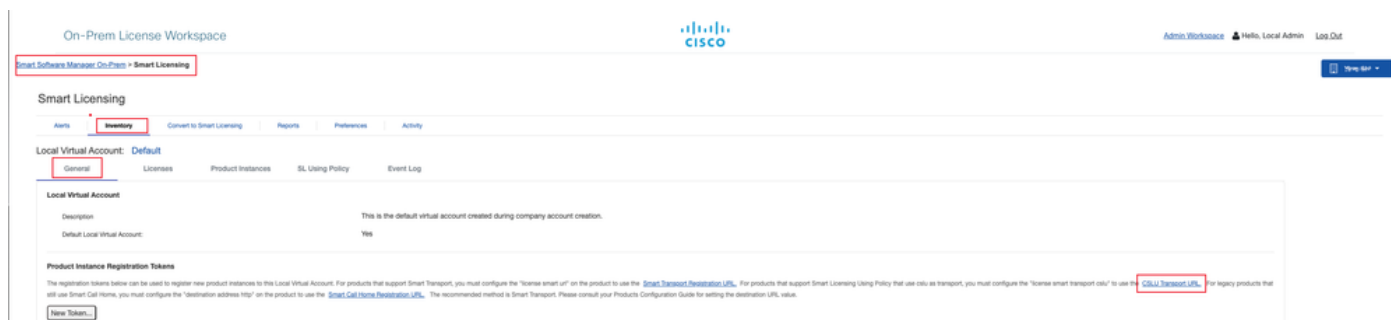
```
#conf t
(config)#ip http server
(config)#ip http secure-server
(config)#ip http secure-trustpoint SLA-TrustPoint
(config)#ip http client source-interface g x/x/x
(config)#ip name-server x.x.x.x
(config)#ip domain lookup source-interface g x/x/x
(config)#ip domain name xxx

(config)#crypto pki trustpoint SLA-TrustPoint
(ca-trustpoint)#enrollment terminal
(ca-trustpoint)#revocation-check none

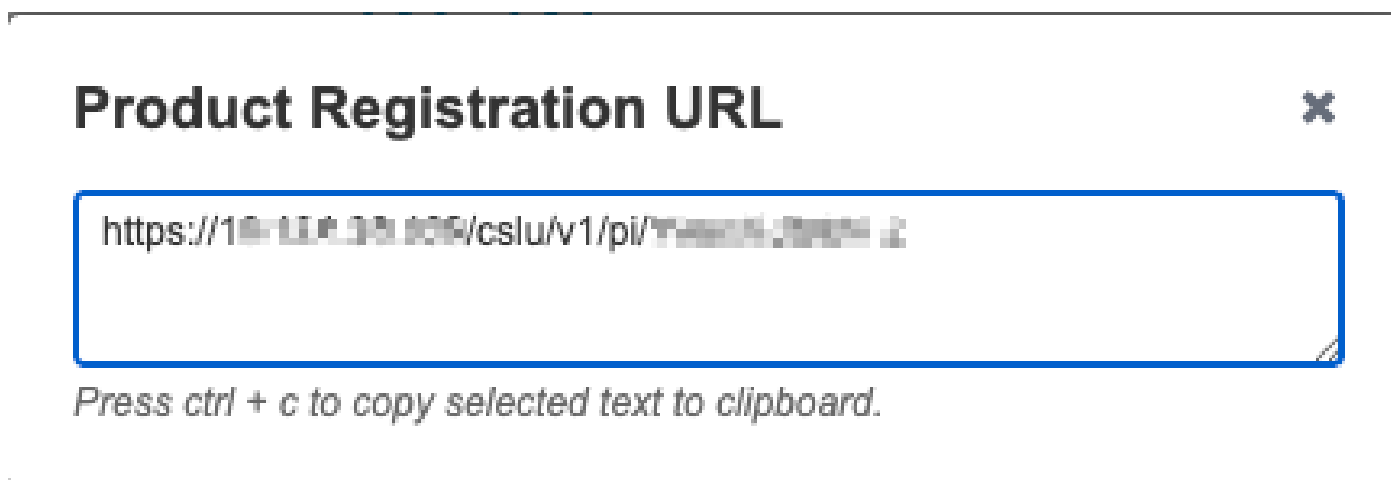
(config)#exit
#copy running-config startup-config
```

4. Recupere o URL de Transporte no Smart Software Manager On-Prem > Smart Licensing >

Inventory > General.



Quando você clica no URL de transporte CSLU, On-Prem retorna esse URL de registro do produto.



5. Definindo o Tipo de Transporte, URL no switch Catalyst.

```
#conf t
(config)#license smart transport cslu
(config)#license smart url cslu https://x.x.x.x/cslu/v1/pi/xxxxx%xxxx-x
(config)#exit
#copy running-config startup-config
```

6. Sincronize a instância do produto com o SSM On-Prem, o switch inicia ativamente a sincronização com o SSM On-Prem.

```
#license smart sync all
```

7. Verificar Instâncias de Produto para SSM Local, As informações do switch podem ser observadas, o que significa que o switch está sincronizado com SSM Local com êxito.

Smart Licensing

Alerts | **Inventory** | Convert to Smart Licensing | Reports | Preferences | Activity

Local Virtual Account: Default

General | Licenses | **Product Instances** | SL Using Policy | Event Log

Name	Product Type	Last Contact	Alerts	Actions
C9300-48UXM	C9300	2025-Sep-02 07:17:32	Sync request from product instance	Actions

8. Em seguida, sincronize as informações de uso no SSM On-Prem com o Cisco SSM (CSSM) em Smart Software Manager On-Prem > Smart Licensing > Reports > Usage Schedules.

On-Prem License Workspace



Smart Licensing

Alerts | **Inventory** | Convert to Smart Licensing | **Reports** | Preferences | Activity

Reports

Reports | **Usage Schedules**

Synchronization schedule with Cisco | Synchronization pull schedule with the devices

Synchronization schedule with Cisco

Schedule synchronization for specified times

Synchronize now with Cisco

Frequency: Days 1

Time Of Day: Hour 1 Minutes 1

Save Reset

9. Faça login no [Smart Software Manager](#) e verifique se a sincronização com SSM On-Prem foi bem-sucedida.

Smart Software Licensing

SL Product Details | Support | Help

Alerts | **Inventory** | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Activity | Commercial Consumption

Virtual Account: ▼

2 Major | Hide Alerts

On-Prem Virtual Account ()

General | Licenses | **Product Instances** | Event Log

Name	Product Type	Managed By	Install Site ID	Last Contact	Alerts	Actions
C9300-48UXM ⓘ	C9300	-	-	2025-Sep-02 07:33:54		

Informações Relacionadas

- [Guia do usuário local do Cisco Smart Software Manager](#)

- [Guia de instalação rápida no local do Cisco Smart Software Manager](#)
- [Licenciamento inteligente usando política para switches Cisco Catalyst 9000 Series](#)

Sobre esta tradução

A Cisco traduziu este documento com a ajuda de tecnologias de tradução automática e humana para oferecer conteúdo de suporte aos seus usuários no seu próprio idioma, independentemente da localização.

Observe que mesmo a melhor tradução automática não será tão precisa quanto as realizadas por um tradutor profissional.

A Cisco Systems, Inc. não se responsabiliza pela precisão destas traduções e recomenda que o documento original em inglês ([link fornecido](#)) seja sempre consultado.