

Aplicación de licencias permanentes en redes Air-Gap en FDM

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Introducción

Este documento describe cómo aplicar licencias permanentes en redes Air-Gapped en Firepower Device Manager (FDM).

Prerequisites

Requirements

Se recomienda tener conocimiento de este tema:

- Configuración inicial de Cisco Secure Firewall Threat Defence

Componentes Utilizados

La información de este documento se basa en la versión de software:

- Firepower Threat Defence versión 7.4.1.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si tiene una red en vivo, asegúrese de entender el posible impacto de cualquier comando.

Configurar

Activar el modo PLR

Paso 1. Active el modo PLR en el dispositivo.

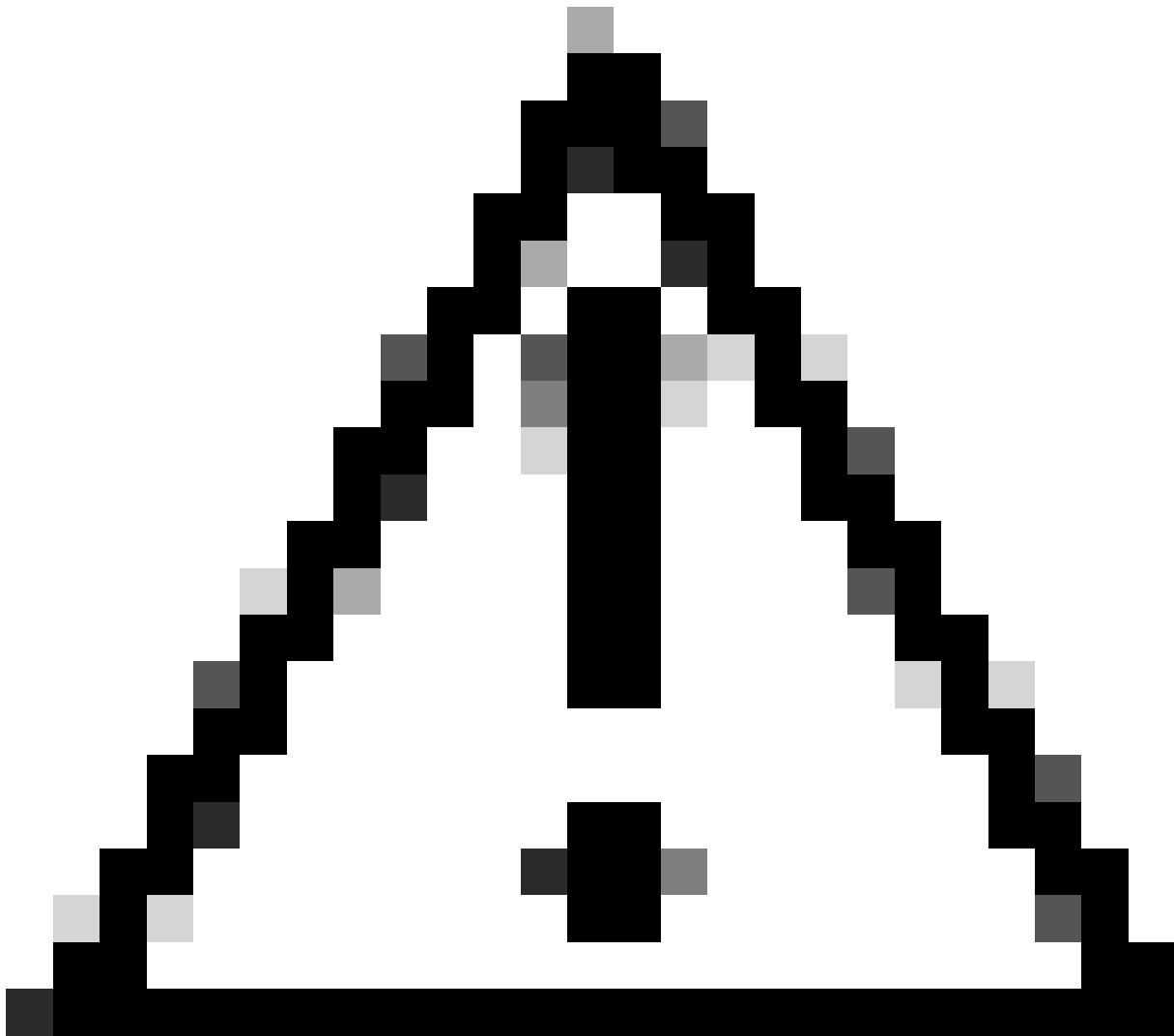
Haga clic en Device y navegue hasta Smart License.

The screenshot displays the Cisco Firepower Device Manager (FDM) interface. The top navigation bar includes 'Firewall Device Manager', 'Monitoring', 'Policies', 'Objects', and 'Device: firepower' (highlighted with a red box). The main area shows a network diagram with 'Inside Network', 'Cisco Firepower Threat Defense for VMware', and 'Internet' components. Below the diagram is a grid of configuration tiles. The 'Smart License' tile is highlighted with a red box and shows '82 DAYS' remaining on the evaluation period. Other tiles include 'Interfaces', 'Routing', 'Updates', 'System Settings', 'Backup and Restore', 'Troubleshoot', 'Site-to-Site VPN', 'Remote Access VPN', 'Advanced Configuration', and 'Device Administration'.

Paso 2. Haga clic en el engranaje y seleccione Switch to Universal PLR.



Nota: si el dispositivo utiliza la licencia inteligente, debe anular el registro del dispositivo.



Precaución: una vez que cambie al modo PLR, no podrá volver al modo de evaluación.

Firewall Device Manager | Monitoring | Policies | Objects | Device: firepower | admin Administrator | CISCO SECURE

Device Summary
Smart License

LICENSE ISSUE
Evaluation Period
You are in Evaluation mode now.

82/90 days left | REGISTER DEVICE | Need help?

Resync connection | **Switch to Universal PLR**

En la ventana de vista previa, seleccione el Nivel de rendimiento y haga clic en Sí.

⚠ Change to Permanent License



If you switch to Universal Permanent License Reservation mode, you cannot switch back to Evaluation mode.

Are you sure you want to use Universal Permanent License Reservation for this device?

Select Performance Tier

The selected performance tier determines VPN session limits and device throughput, click [here](#) to learn more.

Make sure the performance tier selected matches the license in your [Cisco Smart Software Manager](#) account.

Performance Tier

Pick a Tier



Your Device Specifications

Cores / RAM 4 core / 8 GB

NO

YES

Paso 3. Guarde el código de solicitud.

Universal Permanent License Reservation



i If you have **Cloud Services enabled** you might want to disable them.

1 Save Request Code for this Device.



Request Code

DE-ZNGFWv:9ADKC86E1VU-CCRvmZyqM-BF

SAVE AS TXT



PRINT

2 Log into your [Cisco Smart Software Manager](#) account, go to the Inventory > Licenses page, and start the License Reservation process. Use the request code to generate an Authorization Code. Note that you must work with your Cisco representative to enable Universal Permanent License Reservation mode in your account. If you cannot start the License Reservation process (that is, the button does not appear on the Inventory > License page), please contact your Cisco representative.

3 Paste or type in the Authorization Code:

Authorization Code

Paste code from clipboard here

? For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide

CANCEL

REGISTER

Paso 4. Inicie sesión en su cuenta CSSM y navegue hasta Smart Software Licensing > Inventory > Licenses y haga clic en License Reservation.

Smart Software Licensing

[SL Product Details](#) [Support](#) [Help](#)

Alerts **Inventory** [Convert to Smart Licensing](#) | [Reports](#) | [Preferences](#) | [On-Prem Accounts](#) | [Activity](#)

General

Licenses

Product Instances

Event Log

Available Actions ▾

Manage License Tags

License Reservation...



Show License Transactions

By Name | By Tag

Search by License



Haga clic en Proceed.



Use of the Software contained in this Smart Account is subject to Cisco's EULA. Cisco may restrict the availability or features of this Smart Account or the Smart Licensing capabilities in any region, or modify or discontinue features to comply with applicable laws and regulations. You may only use the Software in the country for which it is purchased and intended to be used.

Proceed

Pegue el código de solicitud y haga clic en Next.

Smart License Reservation



STEP 1

Enter Request Code

STEP 2

Select Licenses

STEP 3

Review and Confirm

STEP 4

Authorization Code

You can reserve licenses for product instances that cannot connect to the Internet for security reasons. You will begin by generating a Reservation Request Code from the product instance. To learn how to generate this code, see the configuration guide for the product being licensed.

Once you have generated the code:

- 1) Enter the Reservation Request Code below
- 2) Select the licenses to be reserved
- 3) Generate a Reservation Authorization Code
- 4) Enter the Reservation Authorization Code on the product instance to activate the features

* Reservation Request Code:

DE-ZNGFW:9ADKC86E1VU-CCRvmZyqM-BF



Upload File

Browse

Upload

Cancel

Next

Seleccione su licencia y haga clic en Next.

Smart License Reservation

3



Product Instance Details

Product Type: VIRTSEC
UDI PID: NGFW
UDI Serial Number: 9ADKC86E1VU

Licenses to Reserve

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

- Cisco Firepower Virtual Threat Defense Universal License

Cancel **Next**

Haga clic en Generar código de autorización.

Smart License Reservation

x



Product Instance Details

Product Type: VIRTSEC
UDI PID: NGFW
UDI Serial Number: 9ADKC86E1VU

Licenses to Reserve

License	Expires	Quantity to Reserve
Cisco Firepower Virtual Threat Defense Universal License <small>Cisco Firepower Virtual Threat Defense Universal License</small>	-	1

Cancel Back **Generate Authorization Code**

Para guardar el código de autorización, haga clic en Descargar como archivo o Copiar al Portapapeles.



Nota: Actualice la página para ver el estado actual de la licencia.

Universal Permanent License Reservation



i If you have **Cloud Services enabled** you might want to disable them.

1 Save Request Code for this Device.

Request Code

DE-ZNGFWv:9ADKC86E1VU-CCRVmZyqM-BF

SAVE AS TXT

PRINT

2 Log into your [Cisco Smart Software Manager](#) account, go to the Inventory > Licenses page, and start the License Reservation process. Use the request code to generate an Authorization Code. Note that you must work with your Cisco representative to enable Universal Permanent License Reservation mode in your account. If you cannot start the License Reservation process (that is, the button does not appear on the Inventory > License page), please contact your Cisco representative.

3 Paste or type in the Authorization Code:

Authorization Code

9ADKC86E1VU-CCRVmZyqM-BF

? For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide

CANCEL

REGISTER

Cancelar el registro de PLR

Tengo una licencia en CSSM

Utilice esta opción cuando complete el asistente de registro de licencias en CSSM y disponga de un código de autorización. Por ejemplo, ha iniciado el proceso en el FDM incorrecto, por lo que debe liberar la licencia en la cuenta CSSM.

Paso 1. Haga clic en Device y navegue hasta Smart License.

Firewall Device Manager | Monitoring | Policies | Objects | **Device: firepower** | admin Administrator | cisco SECURE

Inside Network | Cisco Firepower Threat Defense for VMware | ISP/WAN/Gateway | Internet | DNS Server | NTP Server | Smart Lic...

Smart License
Evaluation expires in 82 days
Tier: FTDv5 - 100 Mbps
View Configuration

Paso 2. Haga clic en el engranaje y seleccione Cancelar PLR.

Device Summary
Licensing

UNIVERSAL PLR NOT FINISHED
Reservation Pending

CONTINUE RESERVATION | Need help? [?](#)

Resync connection
Cancel PLR

Tiered Performance | Performance Tier: FTDv20 - 3 Gbps

Includes:			
Minimum Threat Defense Virtual Cores	4 core	Rate Limit	3 Gbps
Minimum Threat Defense Virtual RAM	8 GB	VPN Limit	250

Your Device: Cores / RAM | 4 core / 8 GB

Paso 3. Seleccione Tengo una licencia en CSSM.

Cancel Permanent License Reservation



Are you sure you want to cancel the Permanent License Reservation?

License States

I have a License in CSSM

I do not have a License in ...

1 Get Authorization Code from CSSM and paste it here:



Authorization Code

Paste code from clipboard here

2 Generate a Release License Code using your Authorization Code.



GENERATE RELEASE CODE

3 In your [Cisco Smart Software Manager](#) account free up license by putting Release Code.

CANCEL

OK

Paso 4. Pegue el código de autorización y haga clic en Generar código de liberación.

Cancel Permanent License Reservation



Are you sure you want to cancel the Permanent License Reservation?

License States

I have a License in CSSM

I do not have a License in ...

1 Get Authorization Code from CSSM and paste it here:



Authorization Code

2 Generate a Release License Code using your Authorization Code.



GENERATE RELEASE CODE

3 In your [Cisco Smart Software Manager](#) account free up license by putting Release Code.

CANCEL

OK

Guarde su código de licencia de lanzamiento.

Cancel Permanent License Reservation



Are you sure you want to cancel the Permanent License Reservation?

License States

I have a License in CSSM

I do not have a License in ...

1 Get Authorization Code from CSSM and paste it here:



Authorization Code

DAKwJ-KeIke2-fGtuzD-coNBo-umMz7J8-QaG0t-+QoIke-MG-55-DI

2 Generate a Release License Code using your Authorization Code.



Release License Code

DKvxiU-zchZA5-M6ekJk-EmeitQ-85pErd-Ft7

SAVE AS TXT

PRINT



You will not be able to regenerate the Release Code after you unregister. Please make sure that you save this code for use in Cisco Smart Software Manager.



3 In your [Cisco Smart Software Manager](#) account free up license by putting Release Code.

CANCEL

OK

Paso 5. Inicie sesión en su cuenta CSSM y navegue hasta Licencias de software inteligente > Inventario > Instancias de productos.

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

Authorize License-Enforced Features...  Search by Device or by Product Type 




Name	Product Type	Last Contact	Alerts	Actions
10.106.60.161	FP	2024-Feb-08 21:22:04		Actions ▾
68.com	ESA	2024-Feb-08 15:47:37		Actions ▾
724FMC	FP	2024-Jan-16 18:30:52		Actions ▾
A-TSZ-HIS-FMC01	FP	2023-Oct-03 21:05:28	✘ Failed to Renew	Actions ▾
a4115	FPRUHI	2024-Jan-27 17:05:40		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 19:07:58		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 11:25:38		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 20:14:33		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 05:30:17		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 08:00:04		Actions ▾

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Paso 6. Busque el dispositivo por nombre.

Nota: El nombre es el número de serie del dispositivo.

General Licenses **Product Instances** Event Log

Authorize License-Enforced Features...  UDI_PID:NGFW; UDI_SN:9ADKC86E1VU;  

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:NGFW; UDI_SN:9ADKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (Reserved Licenses)		Actions ▾

Showing 1 Record

Paso 7. Haga clic en Acciones y seleccione Eliminar en la lista desplegable.

General Licenses **Product Instances** Event Log

Authorize License-Enforced Features... UDL_PID:NGFW; UDI_SN:9ADKC86E1VU;

Name	Product Type	Last Contact	Alerts	Actions
UDL_PID:NGFW; UDI_SN:9ADKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (Reserved Licenses)		Actions ▾

Transfer...

Remove...

Rehost Licenses from a Failed Product...

Pegue el código de licencia de lanzamiento y haga clic en Quitar reserva.

Remove Reservation ✕

To remove a Product Instance that has reserved licenses and make those licenses once again available to other Product Instances, enter in the Reservation Return Code generated by the Product Instance. If you cannot generate a Reservation Return Code, contact [Cisco Support](#)

★ **Reservation Return Code:**

DKvxiU-zchZA5-M6ekJk-EmeitQ-85pErd-Ft7|



Remove Reservation

Cancel

Paso 8. Vuelva a su dispositivo y haga clic en Aceptar.



Nota: Actualice la página para ver el estado actual de la licencia.

Cancel Permanent License Reservation



Are you sure you want to cancel the Permanent License Reservation?

License States

I have a License in CSSM

I do not have a License in ...

1 Get Authorization Code from CSSM and paste it here:

↓ Authorization Code

DKVxiU-zchZA5-M6ekJk-EmeitQ-85pErd-Ft7

2 Generate a Release License Code using your Authorization Code.

↓ Release License Code

DKVxiU-zchZA5-M6ekJk-EmeitQ-85pErd-Ft7

SAVE AS TXT

PRINT

 You will not be able to regenerate the Release Code after you unregister. Please make sure that you save this code for use in Cisco Smart Software Manager.

3 In your [Cisco Smart Software Manager](#) account free up license by putting Release Code.

CANCEL

OK

No tengo una licencia en CSSM

Utilice esta opción cuando no complete el asistente de registro de licencias en CSSM. Por ejemplo, ha iniciado el proceso PLR en su FDM, pero no dispone de las licencias correctas en su CSSM.

Paso 1. Haga clic en Device y navegue hasta Smart License.

Firewall Device Manager | Monitoring | Policies | Objects | **Device: firepower** | admin Administrator | cisco SECURE

Inside Network | Cisco Firepower Threat Defense for VMware | ISP/WAN/Gateway | Internet | DNS Server | NTP Server | Smart Lic...

Smart License
Evaluation expires in 82 days
Tier: FTDv5 - 100 Mbps
View Configuration

Paso 2. Haga clic en el engranaje y seleccione Cancelar PLR.

Firewall Device Manager | Monitoring | Policies | Objects | **Device: firepower** | admin Administrator | cisco SECURE

Device Summary
Licensing

UNIVERSAL PLR NOT FINISHED
Reservation Pending

CONTINUE RESERVATION | Need help? [?](#)

Tiered Performance | Performance Tier: FTDv20 - 3 Gbps

Includes:
Minimum Threat Defense Virtual Cores: 4 core | Rate Limit: 3 Gbps
Minimum Threat Defense Virtual RAM: 8 GB | VPN Limit: 250

Your Device: Cores / RAM: 4 core / 8 GB

Resync connection
Cancel PLR

Paso 3. Seleccione No tengo licencia en CSSM.

Cancel Permanent License Reservation



Are you sure you want to cancel the Permanent License Reservation?

License States

I have a License in CSSM

I do not have a License in ...

i In this case you can proceed with Cancelling Permanent License Reservation.

CANCEL

OK

Haga clic en Aceptar para finalizar.

Anulación del registro del dispositivo en modo PLR

Paso 1. Haga clic en Device y navegue hasta Smart License.

The screenshot shows the Firewall Device Manager interface for a device named 'firepower'. The navigation menu at the top includes 'Monitoring', 'Policies', 'Objects', and 'Device: firepower'. The main content area displays a network diagram and several configuration panels. The 'Smart License' panel is highlighted with a red box, showing 'Universal PLR' and 'Tier: Not selected (Threat Defense Virtual - Variable)'. Other panels include 'Interfaces', 'Routing', 'Updates', 'System Settings', 'Backup and Restore', and 'Troubleshoot'.

Paso 2. Haga clic en el engranaje y seleccione Unregister Universal PLR.

The screenshot shows the 'Device Summary' page for the 'firepower' device, specifically the 'Licensing' section. It displays a green checkmark and the text 'UNIVERSAL PLR Sufficient License'. A gear icon in the top right corner is highlighted with a red box, and a dropdown menu is open, showing the option 'Unregister Universal PLR' also highlighted with a red box.

Paso 3. Haga clic en Yes para continuar el proceso.

Warning

If you unregister the device, you cannot make any changes to the device configuration. You will have to re-register the device using either Smart Licensing or Universal Permanent License Reservation mode to make changes.

Are you sure you want to unregister the device?

NO YES

Paso 4. Guarde el código de licencia de la versión.

Unregister Universal Permanent License Reservation



- Save Release Code for this Device.
↓
Release License Code
DCsSXH-D2rBtc-UZzer8-Un5yqp-vcKF1v-EG4 SAVE AS TXT PRINT

⚠ You will not be able to regenerate the Release Code after you unregister. Please make sure that you save this code for use in Cisco Smart Software Manager.
- In your [Cisco Smart Software Manager](#) free up license by inserting Release License Code from here.

CANCEL UNREGISTER

Paso 5. Inicie sesión en su cuenta CSSM y navegue hasta Licencias de software inteligente > Inventario > Instancias de productos.

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

Authorize License-Enforced Features...  Search by Device or by Product Type 




Name	Product Type	Last Contact	Alerts	Actions
10.106.60.161	FP	2024-Feb-08 21:22:04		Actions ▾
68.com	ESA	2024-Feb-08 15:47:37		Actions ▾
724FMC	FP	2024-Jan-16 18:30:52		Actions ▾
A-TSZ-HIS-FMC01	FP	2023-Oct-03 21:05:28	✘ Failed to Renew	Actions ▾
a4115	FPRUHI	2024-Jan-27 17:05:40		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 19:07:58		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 11:25:38		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 20:14:33		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 05:30:17		Actions ▾
AAALAB	ASAHIGH	2024-Jan-18 08:00:04		Actions ▾

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Paso 6. Busque el dispositivo por nombre.

Nota: El nombre es el número de serie del dispositivo.

General Licenses **Product Instances** Event Log

Authorize License-Enforced Features...  UDI_PID:NGFW; UDI_SN:9ADKC86E1VU;  

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:NGFW; UDI_SN:9ADKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (Reserved Licenses)		Actions ▾

Showing 1 Record

Paso 7. Haga clic en Acciones y seleccione Eliminar en la lista desplegable.

General Licenses **Product Instances** Event Log

Authorize License-Enforced Features... UDI_PID:NGFW; UDI_SN:9ADKC86E1VU;

Name	Product Type	Last Contact	Alerts	Actions
UDI_PID:NGFW; UDI_SN:9ADKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (Reserved Licenses)		Actions ▼

Transfer...

Remove...

Rehost Licenses from a Failed Product...

Pegue el código de licencia de lanzamiento y haga clic en Quitar reserva.

Remove Reservation



To remove a Product Instance that has reserved licenses and make those licenses once again available to other Product Instances, enter in the Reservation Return Code generated by the Product Instance. If you cannot generate a Reservation Return Code, contact [Cisco Support](#)

* **Reservation Return Code:**

DCsSXH-D2rBtc-UZzer8-Un5yqp-vcKF1v-EG4



Remove Reservation

Cancel

Paso 8. Vuelva al dispositivo y haga clic en Anular registro.

Unregister Universal Permanent License Reservation ? ×

1 Save Release Code for this Device.



Release License Code

DCsSXH-D2rBtc-UZzer8-Un5yqp-vcKF1v-EG4

SAVE AS TXT

PRINT

You will not be able to regenerate the Release Code after you unregister. Please make sure that you save this code for use in Cisco Smart Software Manager.

2 In your [Cisco Smart Software Manager](#) free up license by inserting Release License Code from here.

CANCEL

UNREGISTER

Verificación

Navegue hasta Device > Smart License y podrá ver que la licencia es Universal PLR.

The screenshot shows the Cisco Smart Software Manager interface. The top navigation bar includes 'Firewall Device Manager', 'Monitoring', 'Policies', 'Objects', and 'Device: firepower'. The main content area is titled 'Device Summary' and 'Licensing'. A green checkmark icon is next to the text 'UNIVERSAL PLR Sufficient License', indicating that the license is correctly configured.

Troubleshoot

1. Busque errores en `/ngfw/var/log/cisco/smart_agent.log`.

Por ejemplo, en estos registros, puede ver que el proceso de registro se ha realizado correctamente.

```
<#root>
> expert
admin@firepower:~$ sudo su
Password:
```

```

root@firepower:/home/admin# cd /ngfw/var/log/cisco/
root@firepower:/ngfw/var/log/cisco# tail smart_agent.log
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO LicenseSoftwareIds:82 - Selected software ID: regid.2019-
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO DefaultSmartAgentFactoryProvider:398 - New platform tag i
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO PLRUnhandledNotificationHandler:31 - Handling listener cl
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO PLRUnhandledNotificationHandler:31 - Handling listener cl

2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO SmartAgentConfFileSync:178 - RegistrationStatus : REGISTERED

2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO SmartAgentConfFileSync:192 - updated the smart Agent File
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO PLRUnhandledNotificationHandler:31 - Handling listener cl
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO DefaultSmartAgentManager:159 - Received notification from

```

2. Tomar una decisión para solicitar la asistencia del TAC y adjuntarla a las notas del caso. Puede solicitar asistencia en [Soporte Técnico y Descargas de Cisco](#).

```

> expert
admin@firepower:~$ sudo su
root@firepower:/home/admin# pigtail all -outfile LogsRegistration.txt

```

3. El estado de la licencia también se informa en el archivo `/etc/sf/smart_agent.conf`. Si el dispositivo se encuentra en el modo de reserva de licencia permanente universal, `smart_agent.conf` se muestra como REGISTERED (REGISTRADO) y AUTHORIZED (AUTORIZADO).

```

> expert
admin@firepower:~$ sudo su
root@firepower:/home/admin# tail /etc/sf/smart_agent.conf
#Fri Feb 09 03:21:21 UTC 2024
virtual_acct=
registration=REGISTERED,null
authorization=AUTHORIZED,1707448881842

```

Problemas comunes

No hay suficientes licencias.

En el proceso de Reserva de Licencia, aparece este error:

Smart License Reservation ×

<p>STEP 1 ✓</p> <p>Enter Request Code</p>	<p>STEP 2</p> <p>Select Licenses</p>	<p>STEP 3</p> <p>Review and Confirm</p>	<p>STEP 4</p> <p>Authorization Code</p>
---	--------------------------------------	---	---

✘ The licenses cannot be reserved because the Virtual Account does not contain a sufficient surplus of the following perpetual licenses: FTDv 3 Gbps Universal License.

Acción Recomendada .

Compruebe que dispone de suficientes licencias en su cuenta CSSM. Si tiene suficientes

licencias, solicite asistencia del TAC.



No puede ver el botón Reserva de licencia.

Smart Software Licensing

[SL Product Details](#) [Support](#) [Help](#)

[Alerts](#) | [Inventory](#) | [Convert to Smart Licensing](#) | [Reports](#) | [Preferences](#) | [On-Prem Accounts](#) | [Activity](#)

General **Licenses** Product Instances Event Log

Available Actions ▾ Manage License Tags  Show License Transactions By Name | By Tag 

Acción Recomendada

Debe ponerse en contacto con su representante de Cisco para habilitar el modo PLR en su cuenta.

Información Relacionada

- [Guía de configuración de Cisco Secure Firewall Device Manager, versión 7.4](#)

Acerca de esta traducción

Cisco ha traducido este documento combinando la traducción automática y los recursos humanos a fin de ofrecer a nuestros usuarios en todo el mundo contenido en su propio idioma.

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