

Ejemplo de Configuración de Acceso Convergente (5760/3850/3650) a través de Prime Infrastructure con SNMP v2 y v3

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Introducción

Este documento describe cómo agregar acceso convergente (5760/3850/3650) a Prime Infrastructure con protocolo simple de administración de red (SNMP) v2 y v3.

Prerequisites

Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Acceso convergente (5760/3850/3650) Cisco IOS® versión 3.3.x y posteriores o Denali 16.x
- Prime Infrastructure versión 2.0 o posterior

Componentes Utilizados

Este documento no tiene restricciones específicas en cuanto a versiones de software y de hardware.

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, make sure that you understand the potential impact of any command.

Configurar (Prime Infrastructure 2.2 y versiones anteriores)

Configuración de SNMP v2 en un switch

GUI

Elija **Configuration > Controller > Management > SNMP > Communities > New**.

CISCO Wireless Controller Home Monitor Configuration Administration Help

Controller

- System
- Internal DHCP Server
- Management
 - Protocol Management
 - SNMP
 - General
 - Communities
 - SNMP V3 Users
 - SNMP Host
 - HTTP-HTTPS
 - Technical Support
 - System Resources Information
 - Controller crash
 - CoreDump
 - AP crash
 - Mobility Management
 - Mobility Global Config
 - Mobility Peer
 - Switch Peer Group
- mDNS

SNMP v1/v2c Community

New Remove

Community Name	Status
No data available	

CISCO Wireless Controller Home Monitor Configuration Administration Help

Controller

- System
- Internal DHCP Server
- Management
 - Protocol Management
 - SNMP
 - General
 - Communities
 - SNMP V3 Users
 - SNMP Host
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 - Mobility Peer
 - Switch Peer Group
- mDNS

SNMP v1/v2c Community

SNMP v1/v2c Community > New

Community Name

Access Mode

CLI

Ingrese estos comandos:

```
conf t
```

```
snmp-server community V2Community RW
```

Configuración de SNMP v3 en un switch

CLI

Ingrese estos comandos:

```
conf t
```

```
snmp-server group V3Group v3 auth read V3Read write V3Write
```

```
snmp-server user V3User V3Group v3 auth sha Password1 priv aes 128 Password1
```

```
snmp-server view V3Read iso included
```

```
snmp-server view V3Write iso included
```

```
snmp-server host 10.201.234.170 version 3 auth V3User
```

```
snmp-server enable traps
```

Prime Infrastructure

Nota: Utilice la vista Ciclo de vida.

Elija Operate > Device Work Center > Add Device.

The screenshot shows the Cisco Prime Infrastructure web interface. The top navigation bar includes Home, Design, Deploy, Operate, Report, Administration, and Workflows. The main content area is titled 'Device Work Center' and shows a list of devices under the 'ALL' group. The 'Add Device' button is highlighted in yellow.

Device Name	Reachability	IP Address/DNS	Device Type
5508_PS_165	✓	10.201.166.165	Cisco 5508 Wireless LAN Con...
5760.gateway.2wire.net	✓	10.201.234.6	Cisco 5760 Wireless LAN Con...
85108-78	✓	10.201.166.152	Cisco Flex 8500 Wireless LAN...
Shankar_2504	✓	10.201.234.165	Cisco 2504 Wireless LAN Con...

SNMP v2

Add Device

General Parameters *

IP Address

DNS Name

SNMP Parameters

Version

* Retries

* Timeout (secs)

* Community ?

* Confirm Community

Telnet/SSH Parameters

Protocol

* Timeout (secs)

Username

Password

Confirm Password

Enable Password

Confirm Enable Password

SNMP v3

Add Device

▼ General Parameters *

IP Address

DNS Name

▼ SNMP Parameters

Version

* Retries

* Timeout (secs)

Username

Auth. Type

Auth. Password

Privacy Type

Privacy Password

▼ Telnet/SSH Parameters

Protocol

* Timeout (secs)

Username

Password

Nota: Si no se ingresan los parámetros de Telnet/Secure Shell, Prime Infrastructure no recopilará el inventario del switch.

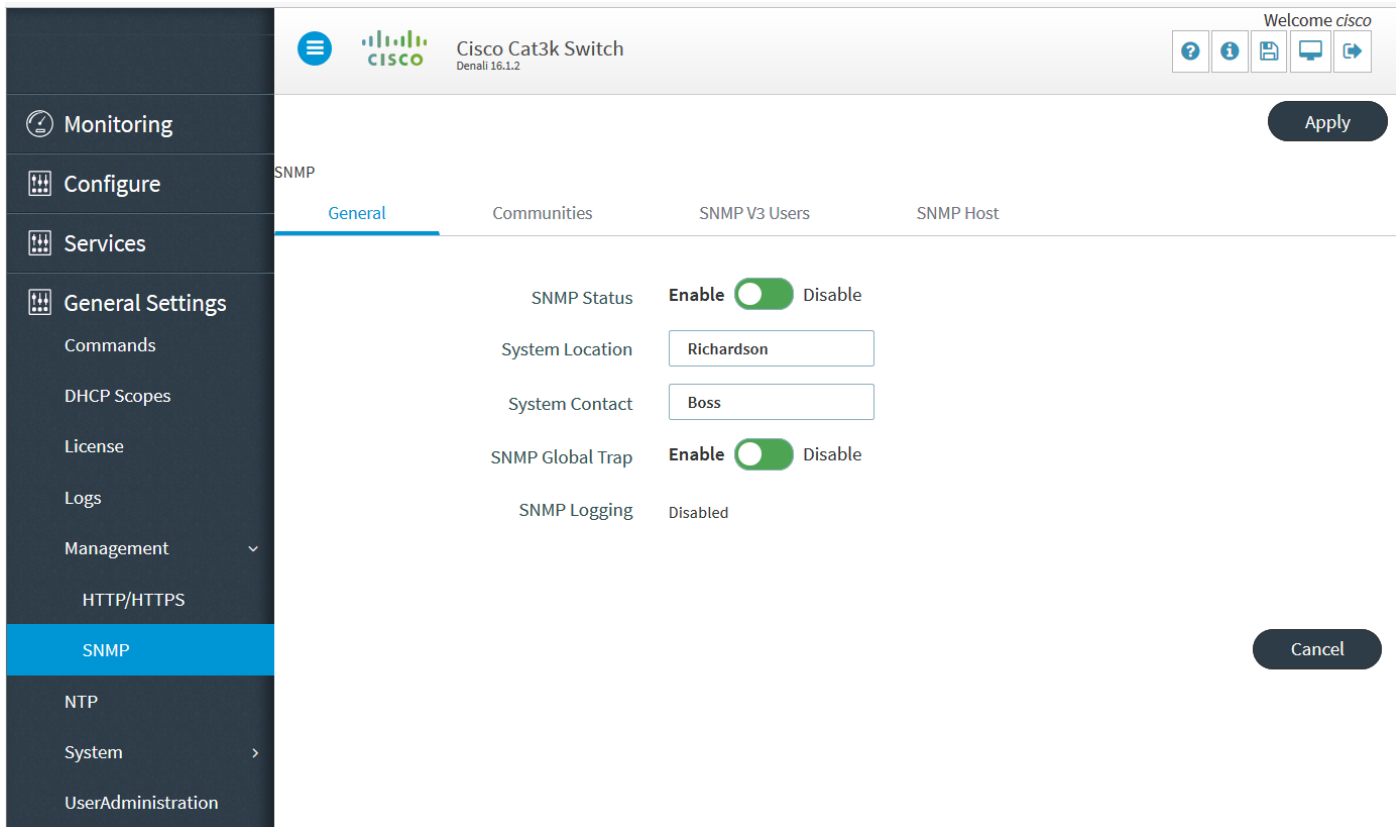
Configurar (Prime Infrastructure 3.x y posterior)

Configuración de SNMP en un switch (Denali 16.x)

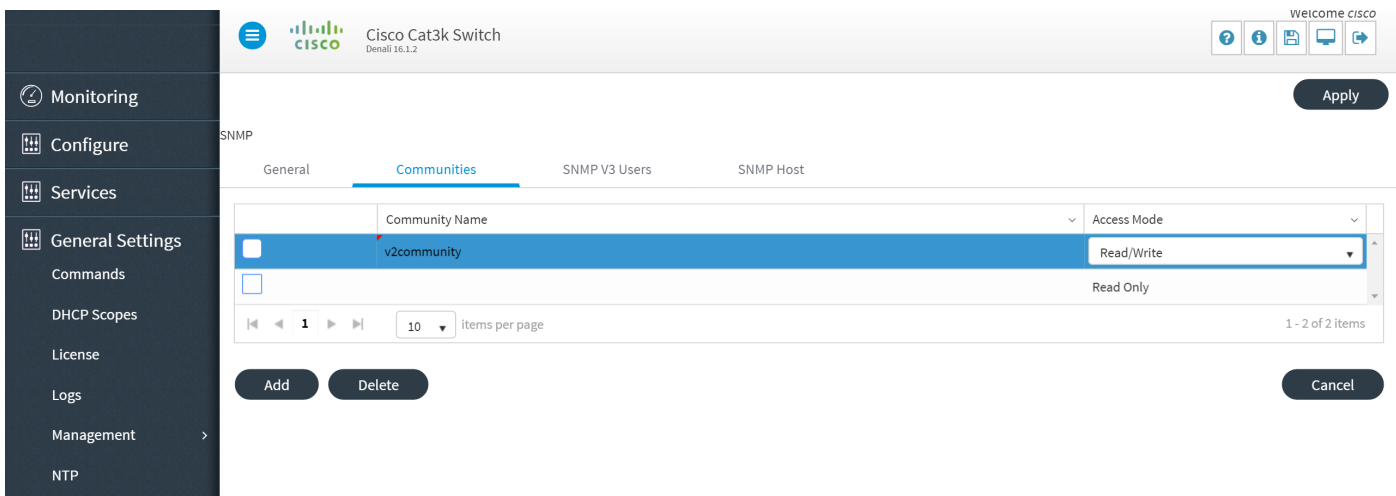
GUI

Elija **General Settings > Management > SNMP**.

Habilite **SNMP**.



Configuración de GUI SNMP v2 en un switch (Denali 16.x)



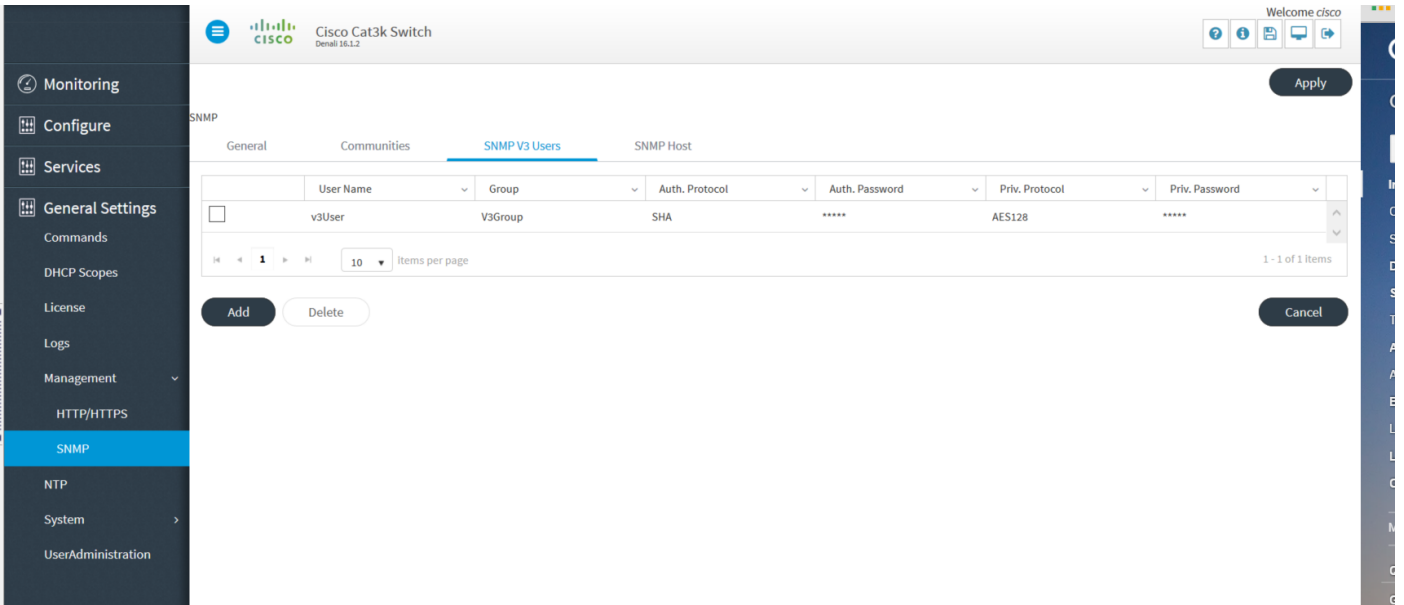
Configuración SNMP v2 de CLI en un switch (Denali 16.x)

Ingresa estos comandos:

```
conf t
```

```
snmp-server community V2Community RW
```

Configuración de GUI SNMP v3 en un switch (Denali 16.x)



Configuración SNMP v3 de CLI en un switch (Denali 16.x)

Ingrese estos comandos:

```
conf t
```

```
snmp-server user V3user V3Group v3 auth sha Password1 priv aes 128 Password1
```

```
snmp-server view V3Read iso included
```

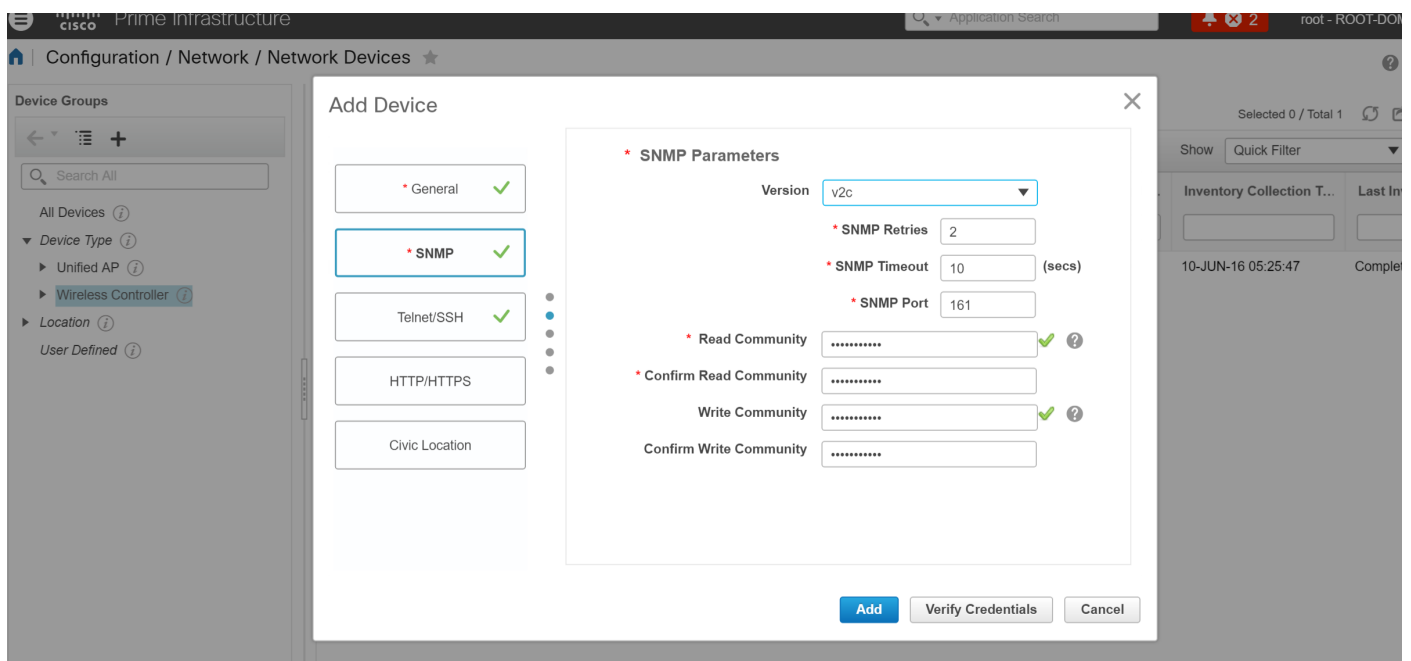
```
snmp-server view V3Write iso included
```

```
snmp-server host 10.201.236.107 version 3 auth V3user
```

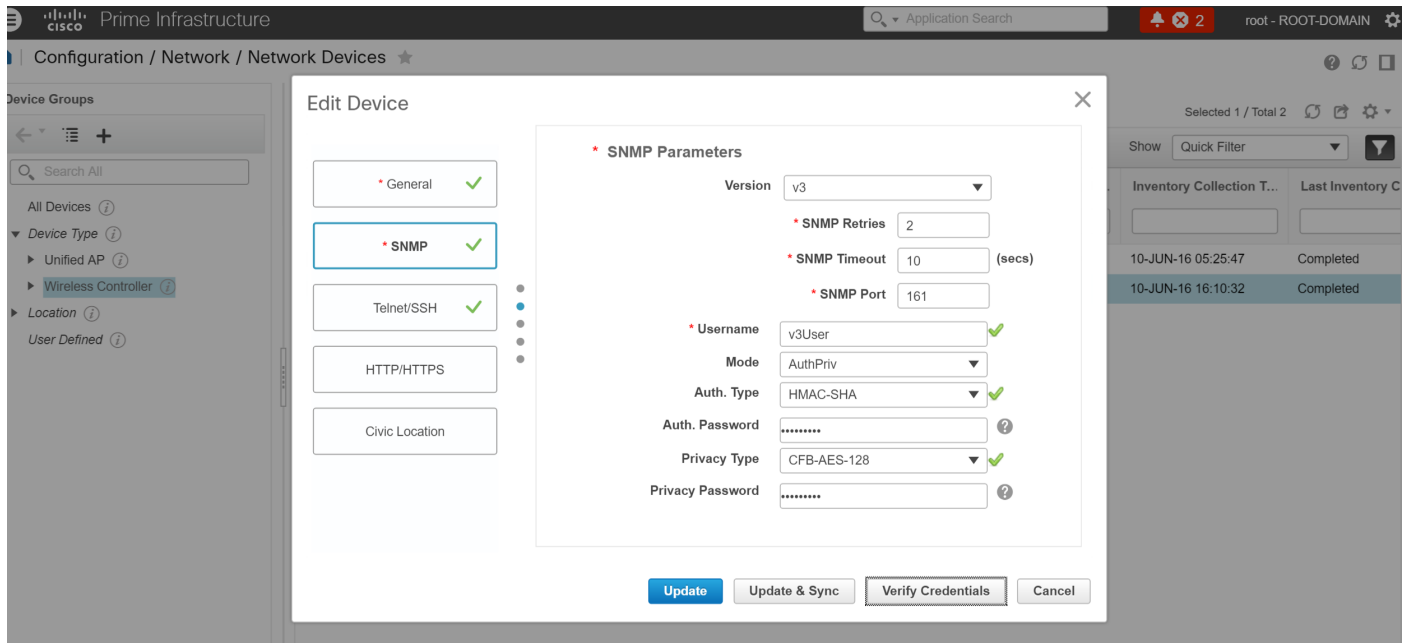
```
snmp-server enable traps
```

Prime Infrastructure

SNMP v2



SNMP v3



Verificación

Use esta sección para confirmar que su configuración funciona correctamente.

El Analizador de Cisco CLI (solo clientes registrados) admite determinados comandos show. Utilice el Analizador de Cisco CLI para ver un análisis de los resultados del comando show.

Configuración de SNMP v2 en un switch (Cisco IOS-XE)

Ingrese este comando:

```
5760-79b#show snmp community
```

```
Community name: V2Community
Community Index: V2Community
Community SecurityName: V2Community
storage-type: nonvolatile      active
```

Configuración de SNMP v3 en un switch (Cisco IOS-XE)

Ingrese estos comandos:

```
5760-79b#show snmp user
```

```
User name: V3User
Engine ID: 80000009030068BC0C5A8F80
storage-type: nonvolatile      active
Authentication Protocol: SHA
Privacy Protocol: AES128
Group-name: V3Group
```

```
5760-79b#show snmp group
```

```
groupname: V3Group                security model:v3 auth
```

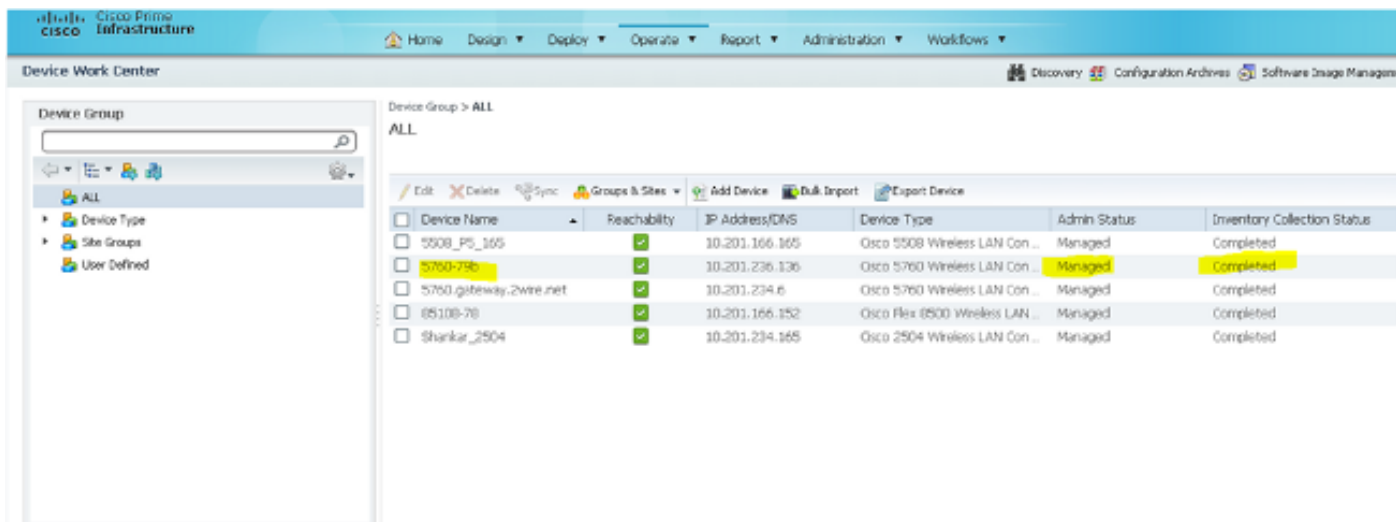
```

contextname: <no context specified>          storage-type: nonvolatile
readview : V3Read                            writeview: V3Write
notifyview: <no notifyview specified>
row status: active

```

Nota: La CLI es preferible a la GUI para la configuración SNMP v3 en el acceso convergente para algunos problemas conocidos que se abordan en el Id. de error de Cisco [CSCuo52406](#).

Prime Infrastructure (2.2 y anteriores)



Configuración de SNMP v2 en un switch (Denali 16.x)

Ingrese este comando:

```
polaris-3850#show snmp community
```

```

Community name: v2community
Community Index: v2community
Community SecurityName: v2community
storage-type: nonvolatile      active

```

Configuración de SNMP v3 en un switch (Denali 16.x)

Ingrese estos comandos:

```
polaris-3850#show snmp user
```

```

User name: v3user
Engine ID: 80000009030068BC0C5A8F80
storage-type: nonvolatile      active
Authentication Protocol: SHA
Privacy Protocol: AES128
Group-name: V3Group

```

```
polaris-3850#show snmp group
```

```

groupname: V3Group                security model:v3 auth
contextname: <no context specified> storage-type: nonvolatile
readview : V3Read                  writeview: V3Write
notifyview: <no notifyview specified>
row status: active

```

Prime Infrastructure

Device Groups

Configuration / Network / Network Devices

Device Groups All Devices

Reachab...	Admin Status	Device Name	IP Address	DNS Name	Device Type	Last Inventory Collect...	Last Success	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Managed	AirMario	10.201.236.100	10.201.236.100	Cisco 2504 Wireless ...	Completed	June 10, 2016
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Un-Managed		10.201.234.36			Synchronizing	

Troubleshoot

En esta sección encontrará información que puede utilizar para solucionar problemas de configuración.

Desde el acceso convergente

El comando **show logging** muestra los paquetes activos enviados a la dirección IP de la infraestructura Prime desde el WLC.

Ingrese estos comandos:

```
polaris-3850#debug snmp packets
```

```
Polaris-3850#show logging
```

```
entPhysicalEntry.7.2042 = Gi2/0/1
```

```
*Jun 10 15:58:51.817: SNMP: Packet sent via UDP to 10.201.236.107
```

```
*Jun 10 15:58:51.819: SNMP: Packet received via UDP from 10.201.236.107 on Vlan1105
```

```
*Jun 10 15:58:51.825: SNMP: Get-bulk request, reqid 945449769, nonrptr 0, maxreps 10
```

```
Jun 10 15:58:51.904: SNMP: Packet sent via UDP to 10.201.236.107
```

```
*Jun 10 15:58:51.927: SNMP: Packet received via UDP from 10.201.236.107 on Vlan1105
```

```
*Jun 10 15:58:51.928: SNMP: Get-bulk request, reqid 945449775, nonrptr 0, maxreps 10
```

```
entPhysicalEntry.7.2062 = NULL TYPE/VALUE
```

```
*Jun 10 15:58:51.931: SNMP: Response, reqid 945449775, errstat 0, erridx 0
```

```
entPhysicalEntry.7.2063 = Gi2/0/22
```

```
entPhysicalEntry.7.2064 = Gi2/0/23
```

```
entPhysicalEntry.7.2065 = Gi2/0/24
```

```
entPhysicalEntry.7.2066 = Switch 2 FRU Uplink Module 1
```

```
--More--
```

```
entPhysicalEntry.7.2067 = Gi2/1/1 Container
```

```
entPhysicalEntry.7.2068 = Gi2/1/2 Container
```

```
entPhysicalEntry.7.2069 = Te2/1/3 Container
```

```
entPhysicalEntry.7.2070 = Te2/1/4 Container
```

```
entPhysicalEntry.8.1 = V01
```

```
*Jun 10 15:58:51.951: SNMP: Packet sent via UDP to 10.201.236.107
```

```
*Jun 10 15:58:51.974: SNMP: Packet received via UDP from 10.201.236.107 on Vlan1105
```

```
*Jun 10 15:58:51.975: SNMP: Get-bulk request, reqid 945449777, nonrptr 0, maxreps 10
```

```
ciscoEnvMonTemperatureStatusEntry.3 = NULL TYPE/VALUE
```

```
*Jun 10 15:58:51.978: SNMP: Response, reqid 945449777, errstat 0, erridx 0
```

```
ciscoEnvMonTemperatureStatusEntry.3.2008 = 28
ciscoEnvMonTemperatureStatusEntry.3.2009 = 40
ciscoEnvMonTemperatureStatusEntry.3.2010 = 44
```

```
ciscoEnvMonTemperatureStatusEntry.6.2008 = 1
```

```
--More--
```

```
*Jun 10 15:58:52.001: SNMP: Packet sent via UDP to 10.201.236.107
```

Desde Prime Infrastructure

SNMPWALK entre dispositivos.

Ingrese estos comandos:

```
PrimeInfrastructurejoker/admin# shell
```

```
Enter shell access password :
```

```
Starting bash shell ...
```

```
ade # snmpwalk -v2c -c v2community 10.201.234.36 sysUpTime
```

```
DISMAN-EVENT-MIB::sysUpTimeInstance = Timeticks: (238833753) 27 days, 15:25:37.53
```

```
v2community = comunidad snmp
```

10.201.234.36 = IP del WLC

Este es el resultado si hay disponibilidad:

```
DISMAN-EVENT-MIB::sysUpTimeInstance = Tiempos de tiempo: xx.xxx
```