Exemplo de gerenciamento de acesso convergido (5760/3850/3650) via infraestrutura Prime com configuração SNMP v2 e v3

Contents

Introduction

Este documento descreve como adicionar o acesso convergido (5760/3850/3650) à infraestrutura Prime com SNMP (Simple Network Management Protocol) v2 e v3.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Acesso convergido (5760/3850/3650) Cisco IOS® versão 3.3.x ou posterior ou Denali 16.x
- Prime Infrastructure versão 2.0 ou posterior

Componentes Utilizados

Este documento não se restringe a versões de software e hardware específicas.

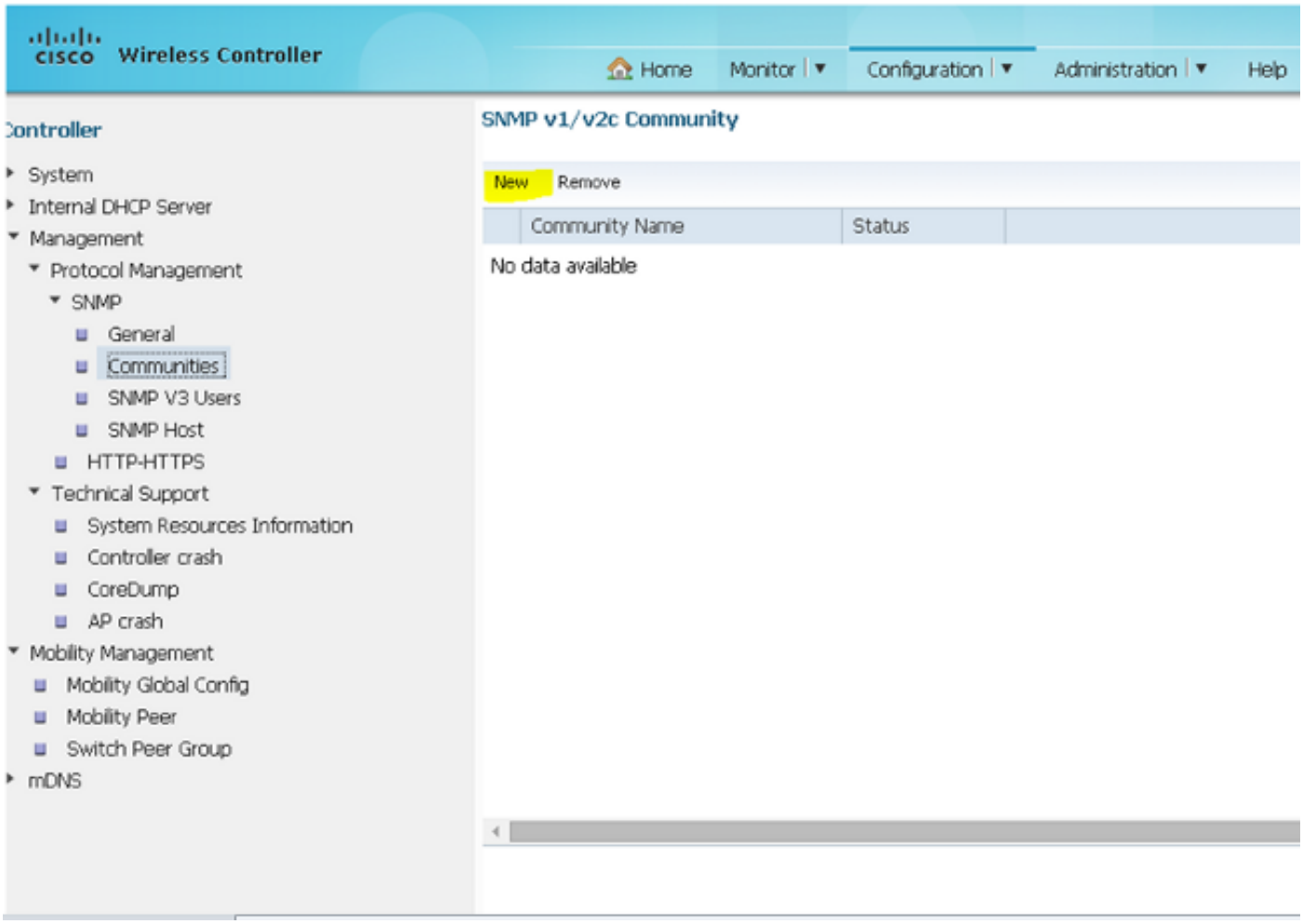
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

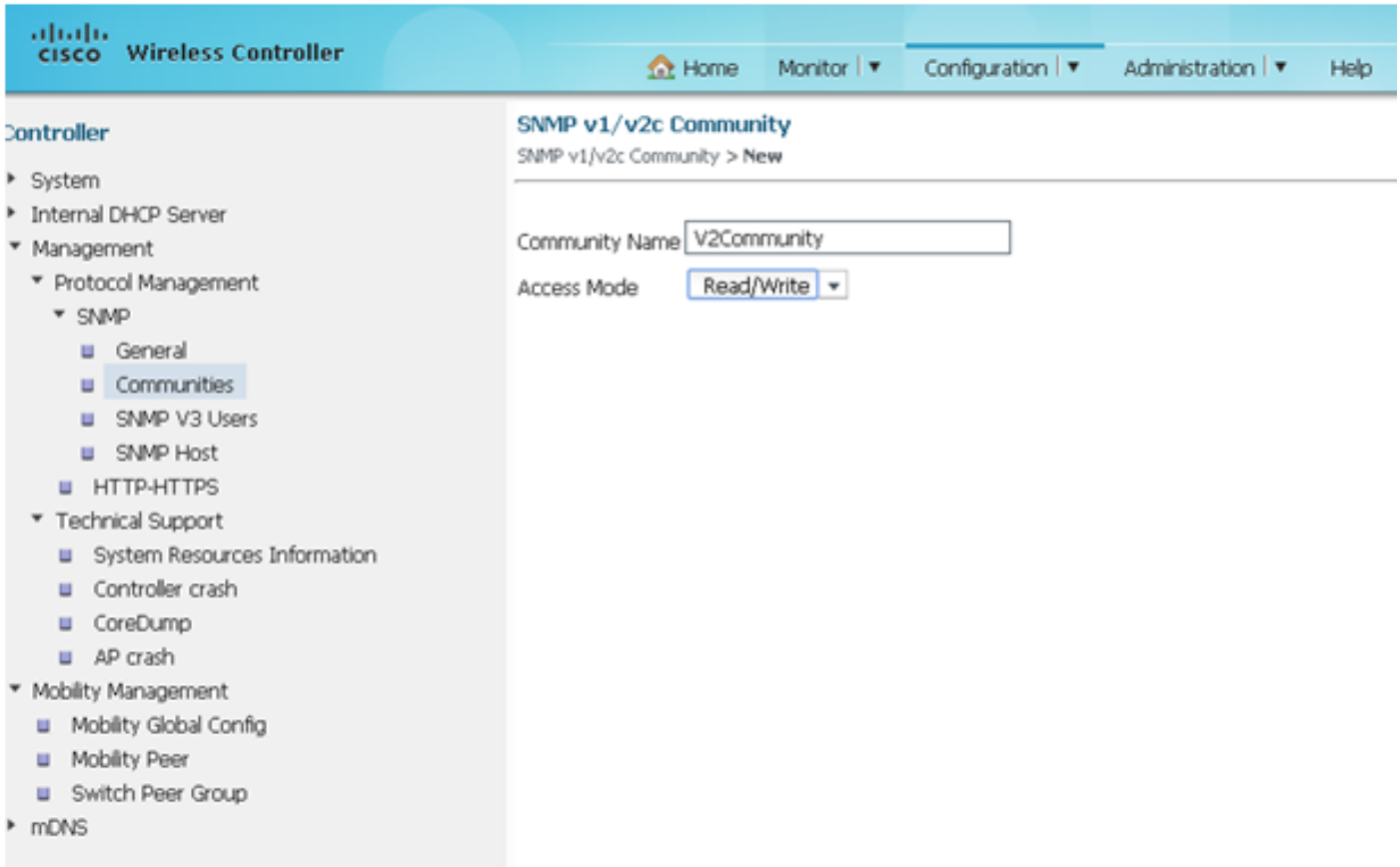
Configurar (Prime Infrastructure 2.2 e anterior)

Configuração do SNMP v2 em um switch

GUI

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


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


Wireless Controller
Home
Monitor
Configuration
Administration
Help
Controller
System
Internal DHCP Server
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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
SNMP v1/v2c Community > New
Community Name
V2Community
Access Mode
Read/Write

CLI

Insira os seguintes comandos:

```
conf t

snmp-server community V2Community RW
```

Configuração SNMP v3 em um switch

CLI

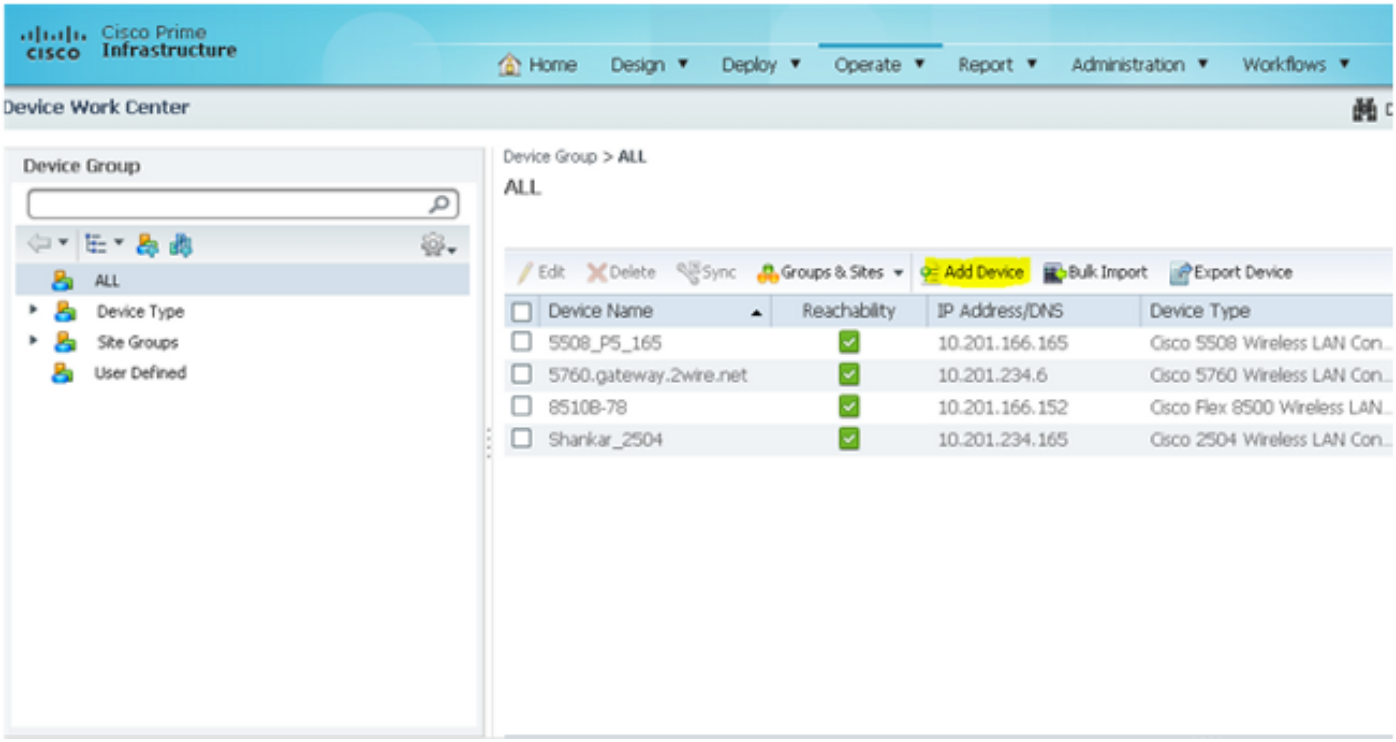
Insira os seguintes comandos:

```
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
```

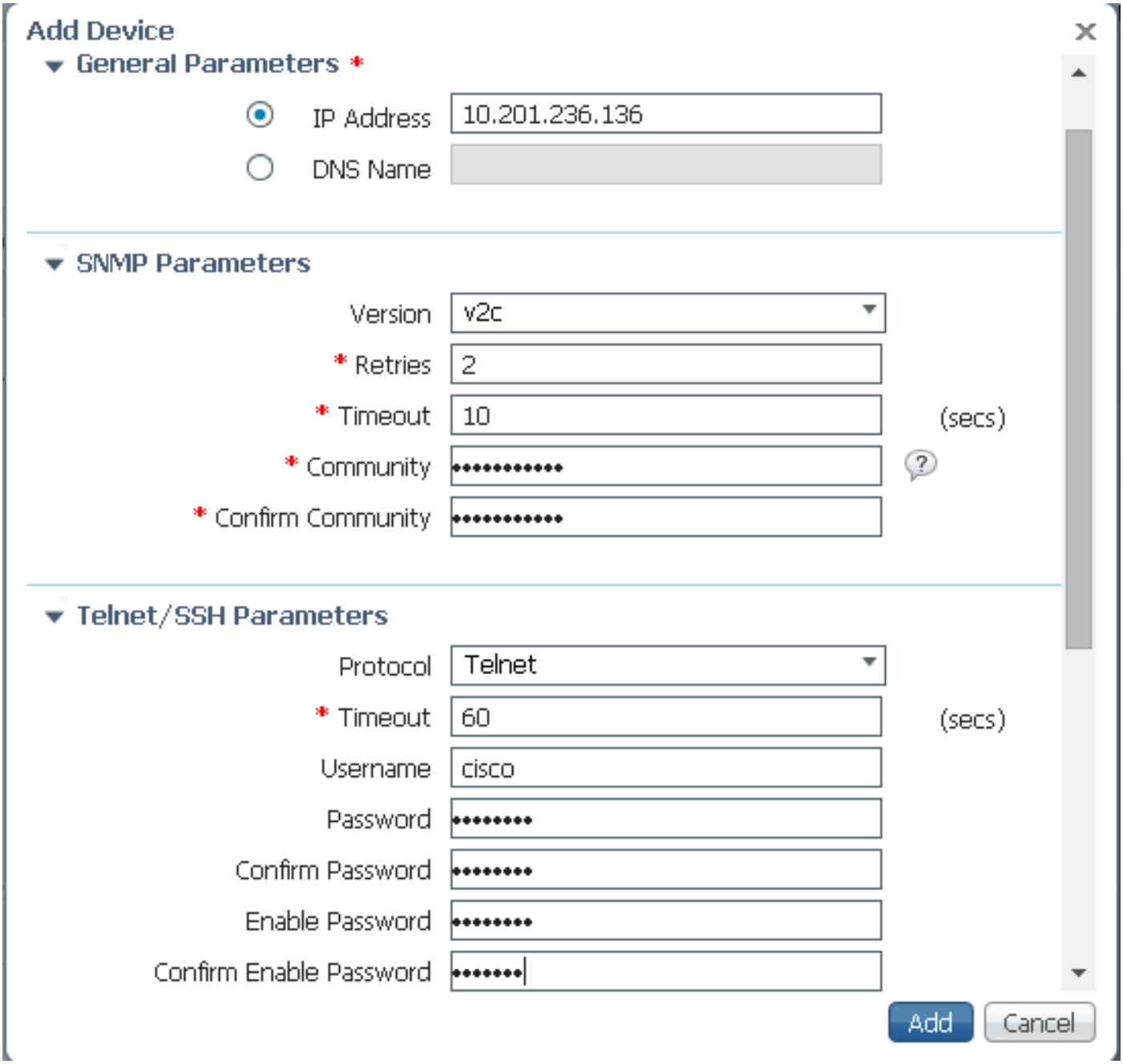
Prime Infrastructure

> **Note**: Use a visualização do ciclo de vida.

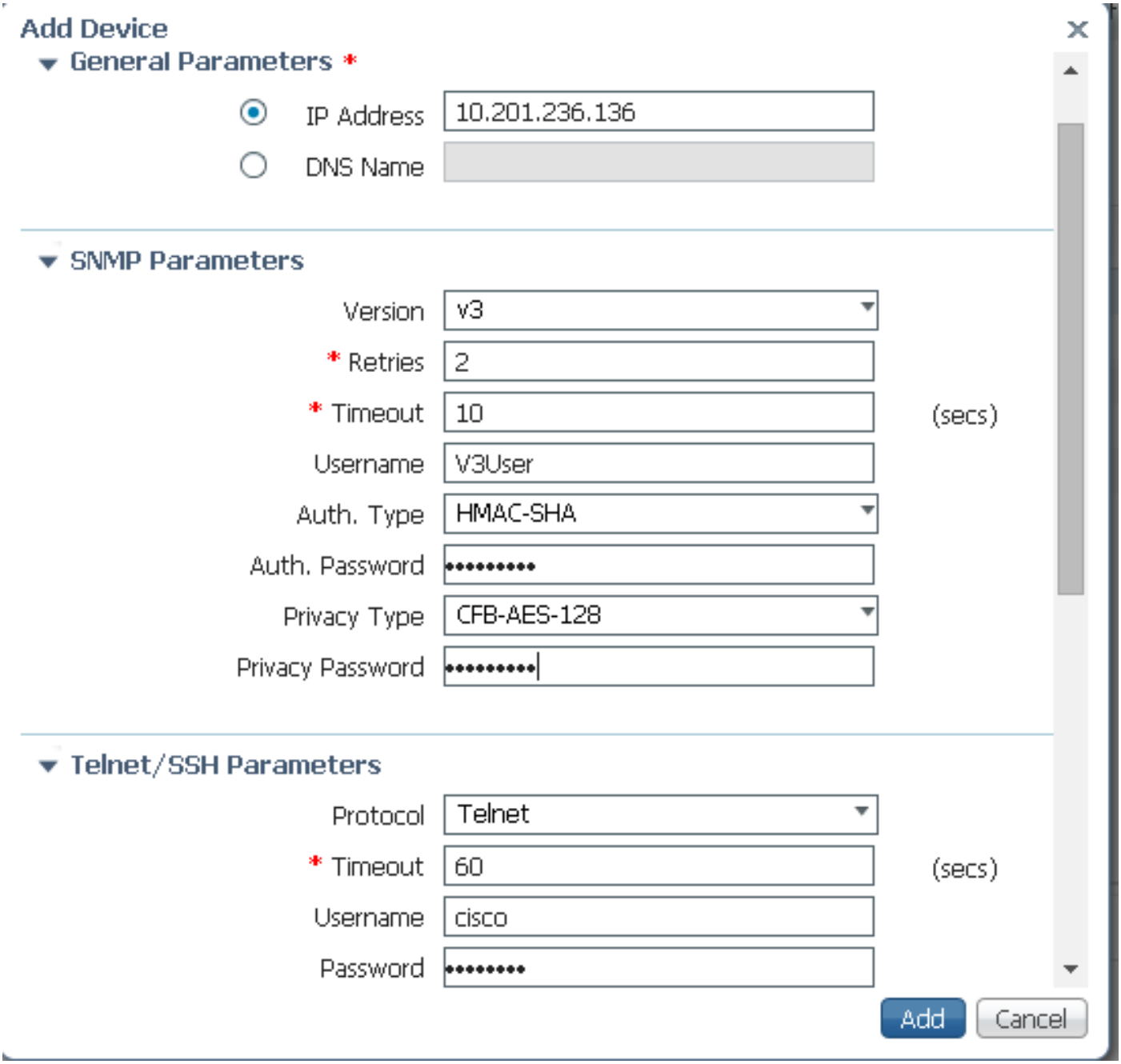
Escolha **Operate > Device Work Center > Add Device**.



SNMP v2


Add Device
General Parameters *
IP Address
10.201.236.136
DNS Name
SNMP Parameters
Version
v2c
* Retries
2
* Timeout
10
(secs)
* Community
* Confirm Community
Telnet/SSH Parameters
Protocol
Telnet
* Timeout
60
(secs)
Username
cisco
Password
Confirm Password
Enable Password
Confirm Enable Password
Add
Cancel

SNMP v3



Note: Se os parâmetros Telnet/Secure Shell não forem inseridos, o Prime Infrastructure não coletará inventário do switch.

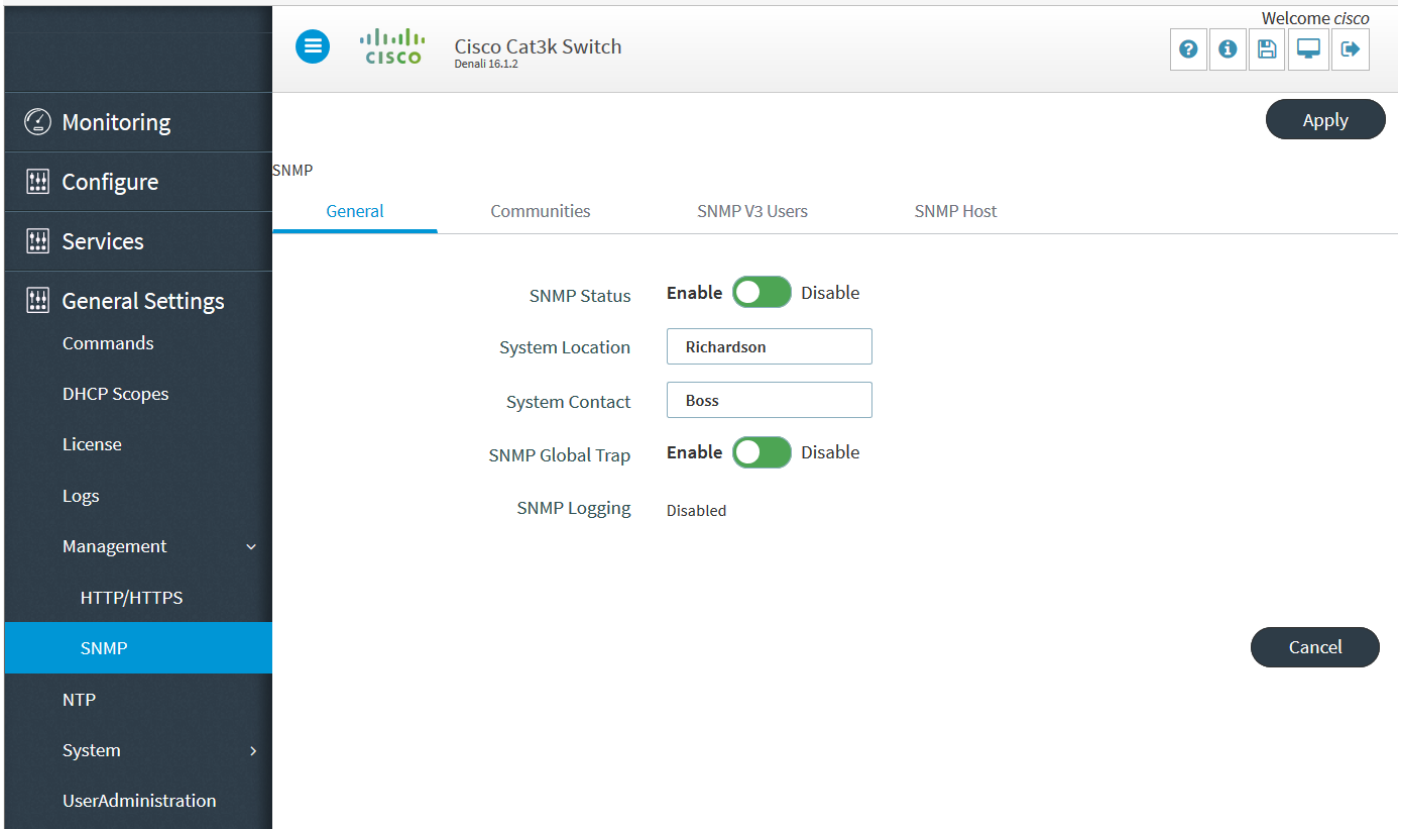
Configurar (Prime Infrastructure 3.x e posterior)

Configuração SNMP em um switch (Denali 16.x)

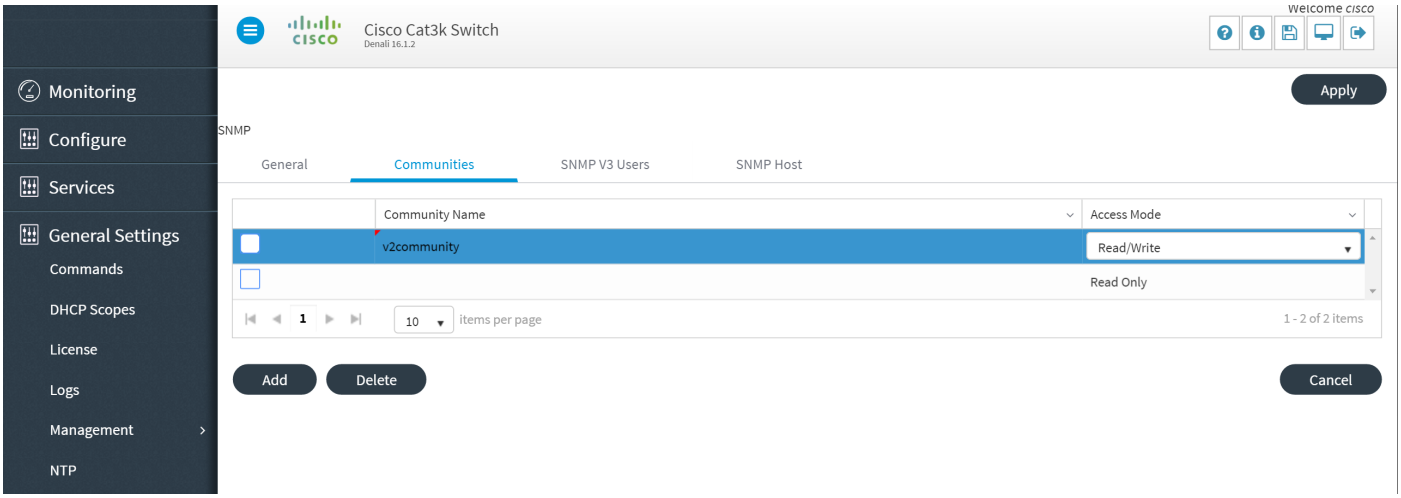
GUI

Escolha **General Settings > Management > SNMP**.

Habilite o **SNMP**.



Configuração de SNMP v2 GUI em um switch (Denali 16.x)

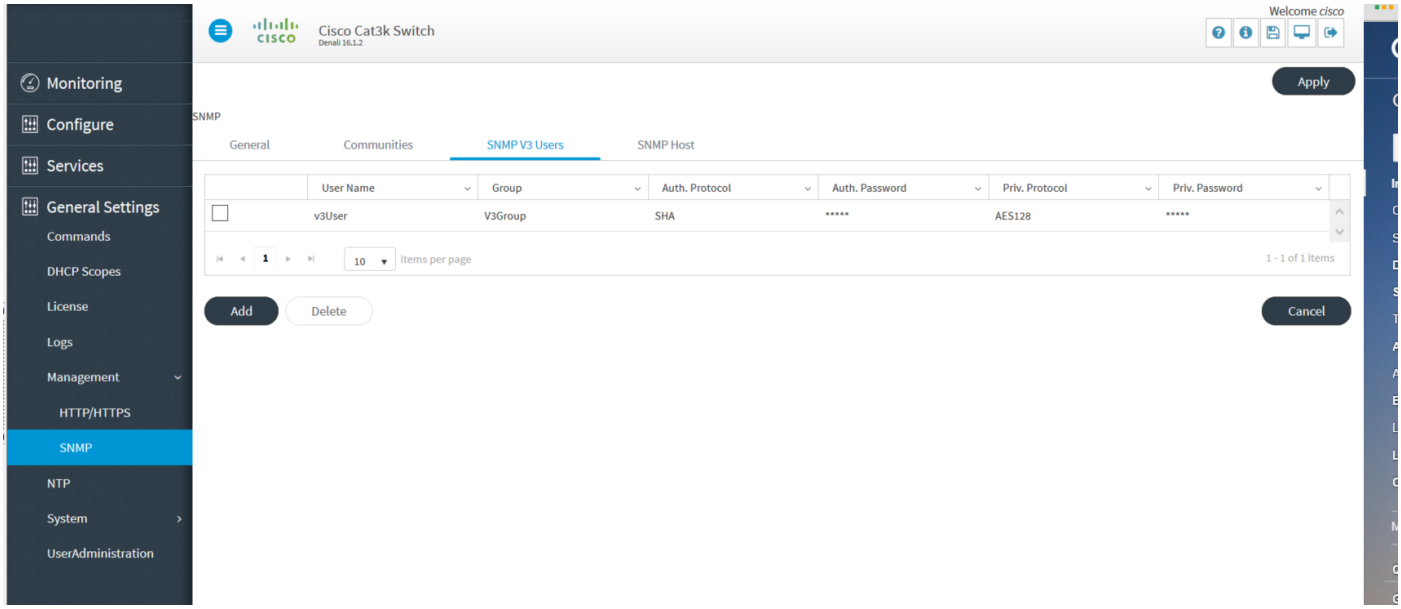


CLI SNMP v2 Configuration on a Switch (Denali 16.x)

Insira os seguintes comandos:

```
conf t

snmp-server community V2Community RW
```

Configuração de SNMP v3 GUI em um switch (Denali 16.x)



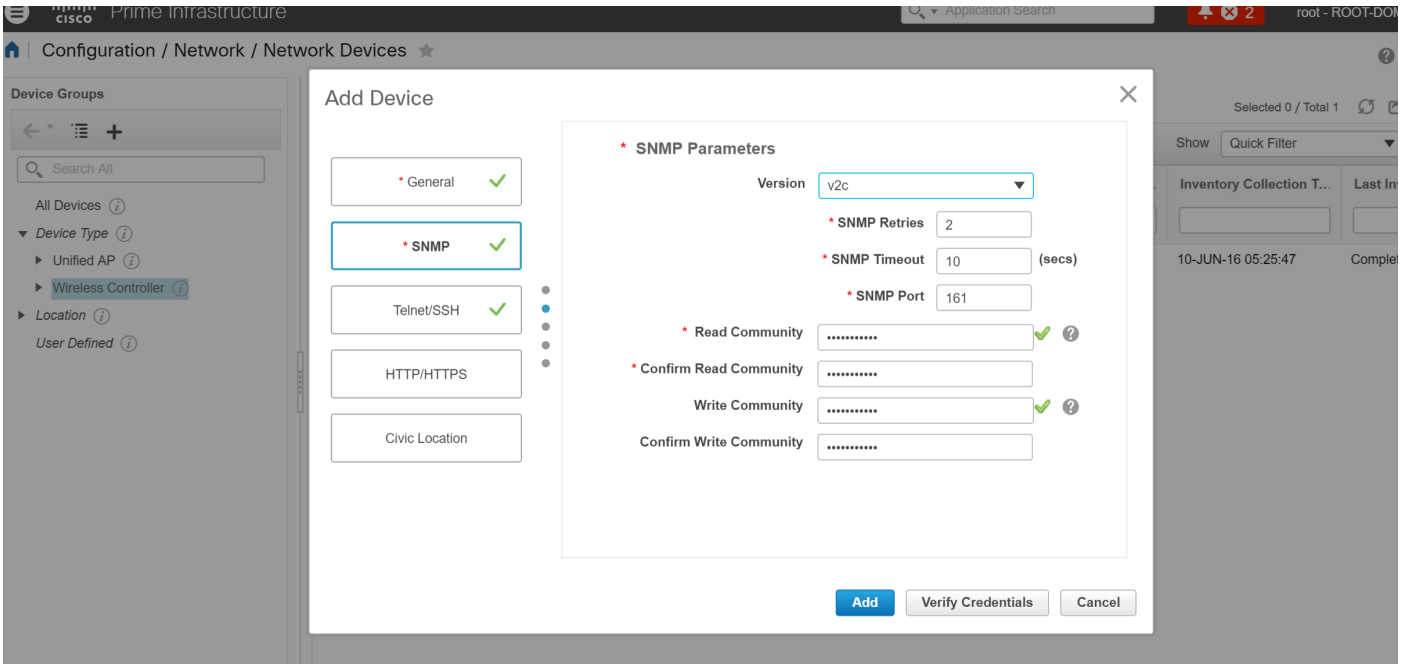
CLI SNMP v3 Configuration on a Switch (Denali 16.x)

Insira os seguintes comandos:

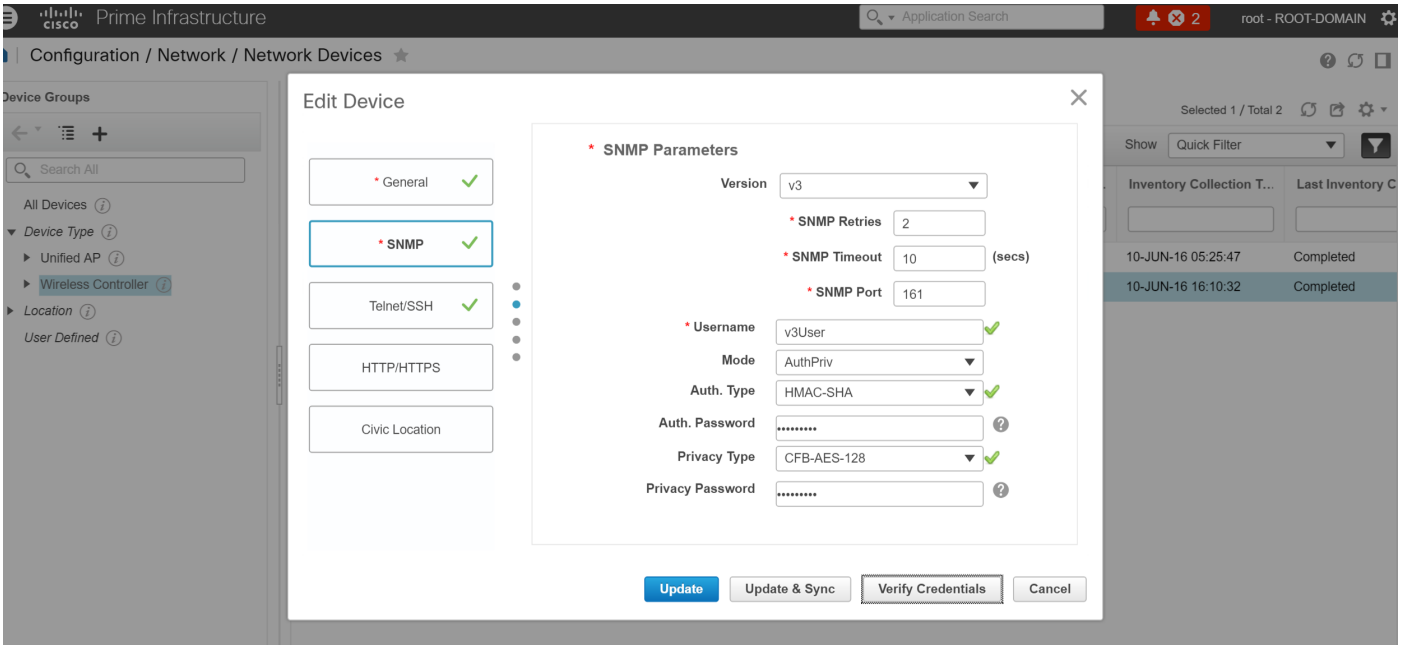
```
conf t

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



Verificar

Use esta seção para confirmar se a sua configuração funciona corretamente.

O Cisco CLI Analyzer (somente clientes registrados) aceita alguns comandos show. Use o Cisco CLI Analyzer para visualizar uma análise da saída do comando show.

Configuração SNMP v2 em um switch (Cisco IOS-XE)

Digite este comando:

```
5760-79b#show snmp community

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

Configuração SNMP v3 em um switch (Cisco IOS-XE)

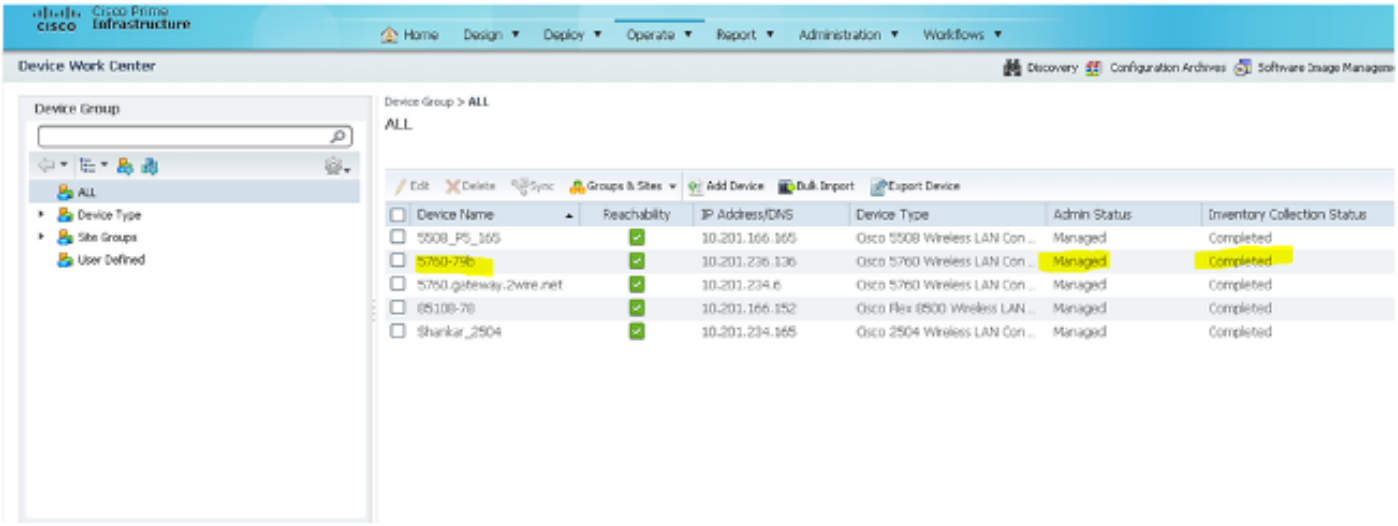
Insira os seguintes comandos:

```
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
```

Note: A CLI é preferida à GUI para a configuração SNMP v3 no acesso convergido para alguns problemas conhecidos que são abordados na ID de bug da Cisco CSCuo52406.

Prime Infrastructure (2.2 e anterior)



Configuração SNMP v2 em um switch (Denali 16.x)

Digite este comando:

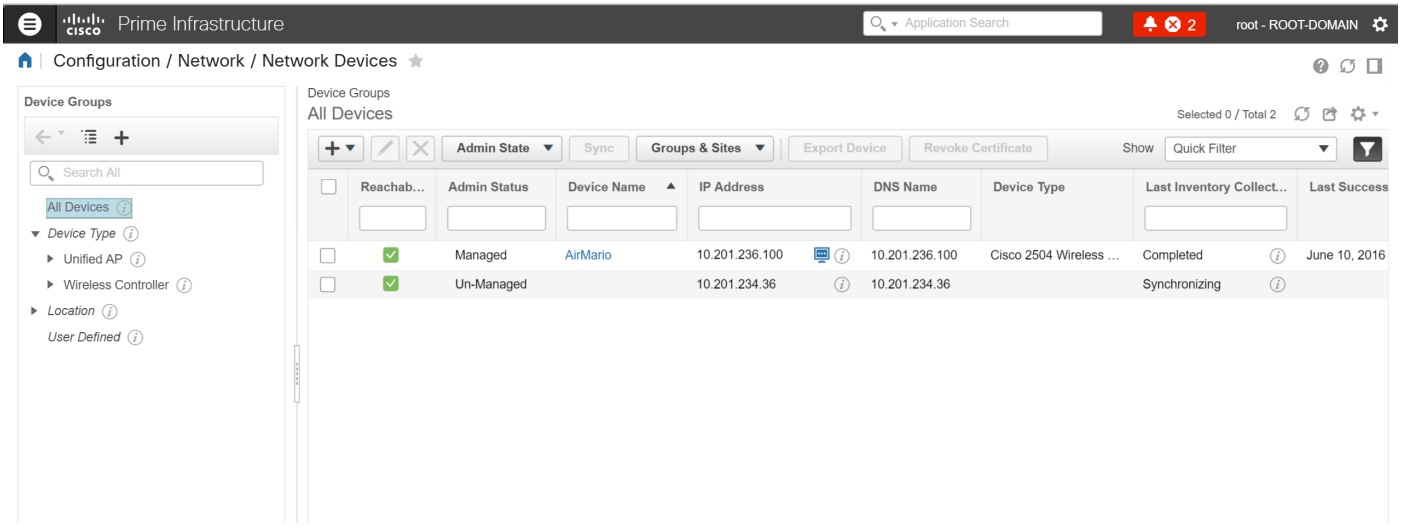
```
polaris-3850#show snmp community

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

Configuração SNMP v3 em um switch (Denali 16.x)

Insira os seguintes 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



Troubleshoot

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Do acesso convergido

O comando **show logging** mostra os pacotes ativos enviados para o endereço IP do Prime Infrastructure a partir do WLC.

Insira os seguintes 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
```

Da Prime Infrastructure

SNMPWALK entre dispositivos.

Insira os seguintes 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 = comunidade snmp

10.201.234.36 = WLC IP

Esse é o resultado se a acessibilidade estiver lá:

DISMAN-EVENT-MIB::sysUpTimeInstance = Timeticks: xx.xxx