

# 在交换机上配置简单网络管理协议(SNMP)用户

## 目标

简单网络管理协议(SNMP)是一种网络管理协议，可帮助记录、存储和共享有关网络中设备的信息。这有助于管理员解决网络问题。SNMP使用管理信息库(MIB)以分层方式存储可用信息。SNMP用户由登录凭证（如用户名、密码和身份验证方法）定义。它与SNMP组和引擎ID关联运行。有关如何配置SNMP组的说明，请单击[此处](#)。只有SNMPv3使用SNMP用户。具有访问权限的用户与SNMP视图关联。

例如，网络管理器可能配置SNMP用户，使其与组关联，以便访问权限可以分配给该特定组中的一组用户，而不是单个用户。用户只能属于一个组。要创建SNMPv3用户，必须配置引擎ID，并且SNMPv3组必须可用。

本文档说明如何在交换机上创建和配置SNMP用户。

## 适用设备

- Sx250 系列
- Sx300系列
- Sx350 系列
- SG350X 系列
- Sx500系列
- Sx550X 系列

## 软件版本

- 1.4.7.05 - Sx300、Sx500
- 2.2.8.04 - Sx250、Sx350、SG350X、Sx550X

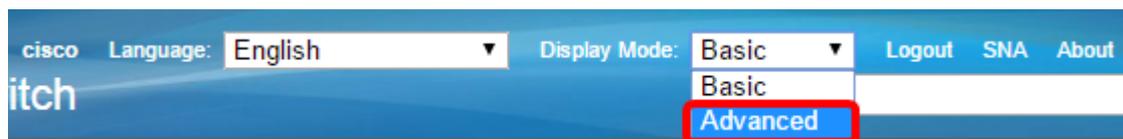
## 在交换机上配置SNMP用户

### 添加SNMP用户

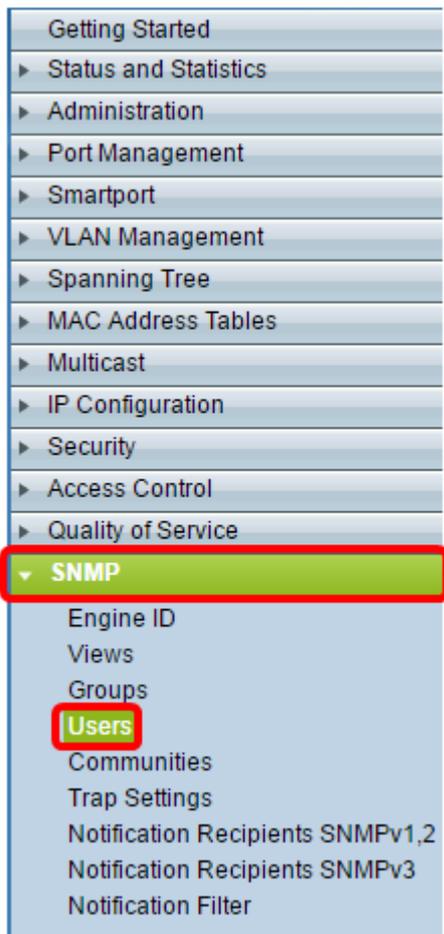
步骤1.登录到交换机的基于Web的实用程序。

步骤2.将Display Mode更改为**Advanced**。

**注意：**此选项在SG300系列和SG500系列交换机上不可用。如果有这些型号，请跳至[步骤3](#)。



[步骤3](#).选择SNMP > Users。



步骤4.单击Add创建新SNMP用户。



步骤5.在User Name字段中输入SNMP用户的名称。

The image shows a configuration dialog box for SNMP. The fields are as follows:

- User Name:** SNMP\_User1 (10/20 characters used). The text is highlighted with a red box.
- Engine ID:** Local (selected with a radio button). Remote IP Address is also visible with a dropdown arrow.
- Group Name:** SNMP\_Group (dropdown menu).
- Authentication Method:** SHA (selected with a radio button). None and MD5 are also visible.
- Authentication Password:** Plaintext (selected with a radio button). The password is password1 (9/32 characters used). Encrypted is also visible.
- Privacy Method:** DES (selected with a radio button). None is also visible.
- Privacy Password:** Plaintext (selected with a radio button). The password is password2 (9/32 characters used). Encrypted is also visible.

Buttons: Apply, Close.

**注意：**在本例中，用户名为SNMP\_User1。

步骤6.点击引擎ID。选项有：

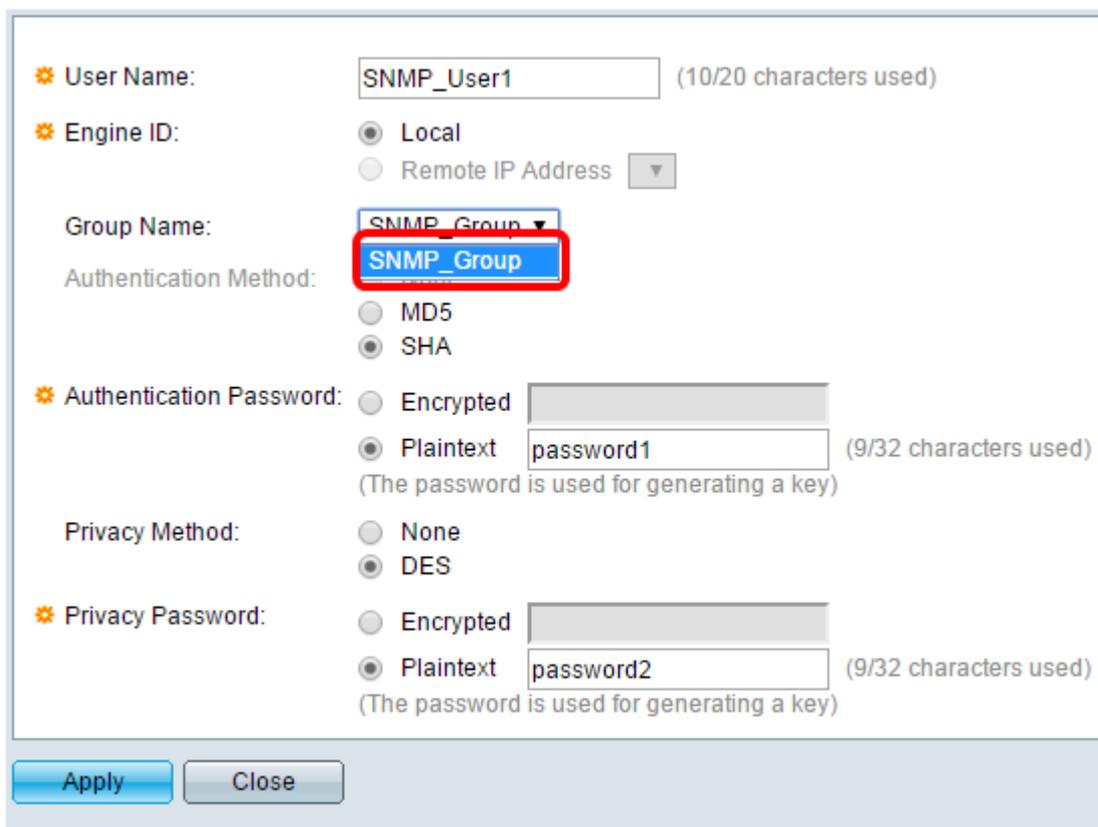
- 本地 — 此选项表示用户已连接到本地交换机。
- 远程IP地址 — 此选项表示用户连接到除本地交换机之外的其他SNMP实体。从IP地址下拉列表中选择远程IP地址。此远程IP地址是为SNMP引擎ID配置的IP地址。

The image shows the same configuration dialog box as above, but with the 'Local' radio button under 'Engine ID' highlighted by a red circle.

Buttons: Apply, Close.

**注意：**更改或删除本地SNMP引擎ID时，它会删除SNMPv3用户数据库。要接收通知消息和请求信息，必须定义本地用户和远程用户。在本例中，选择Local。

步骤7.从Group Name下拉列表中选择SNMP用户所属的SNMP组名。



The image shows a configuration dialog box for SNMPv3. It contains the following fields and options:

- User Name:** A text box containing "SNMP\_User1" with a character count of "(10/20 characters used)".
- Engine ID:** Radio buttons for "Local" (selected) and "Remote IP Address" (with a dropdown arrow).
- Group Name:** A dropdown menu showing "SNMP\_Group" with a red box around it.
- Authentication Method:** Radio buttons for "MD5" and "SHA" (selected).
- Authentication Password:** Radio buttons for "Encrypted" (disabled) and "Plaintext" (selected). The plaintext field contains "password1" with a character count of "(9/32 characters used)". A note below says "(The password is used for generating a key)".
- Privacy Method:** Radio buttons for "None" and "DES" (selected).
- Privacy Password:** Radio buttons for "Encrypted" (disabled) and "Plaintext" (selected). The plaintext field contains "password2" with a character count of "(9/32 characters used)". A note below says "(The password is used for generating a key)".

At the bottom, there are "Apply" and "Close" buttons.

**注意：**在本例中，选择SNMP\_Group。

步骤8.单击身份验证方法。选项有：

- 无 — 此选项表示未使用用户身份验证。
- MD5 — 此选项表示用户输入的密码使用MD5加密。MD5是具有128位哈希值的加密函数。它通常用于数据输入。
- SHA — 此选项表示用户输入的密码使用安全散列算法(SHA)身份验证方法加密。散列函数用于将任意大小的输入转换为固定大小的输出，该输出将是160位散列值。

User Name: SNMP\_User1 (10/20 characters used)

Engine ID:  Local  Remote IP Address ▼

Group Name: SNMP\_Group ▼

Authentication Method:  None  MD5  SHA

Authentication Password:  Encrypted  Plaintext password1 (9/32 characters used)  
(The password is used for generating a key)

Privacy Method:  None  DES

Privacy Password:  Encrypted  Plaintext password2 (9/32 characters used)  
(The password is used for generating a key)

Apply Close

注意：在本例中，选择SHA。

步骤9.点击Authentication Password的单选按钮。选项有：

- Encrypted — 此选项表示密码将加密。输入时不会显示。
- 明文 — 此选项表示密码不会加密。它将显示为正在输入。

User Name: SNMP\_User1 (10/20 characters used)

Engine ID:  Local  Remote IP Address ▼

Group Name: SNMP\_Group ▼

Authentication Method:  None  MD5  SHA

Authentication Password:  Encrypted  Plaintext password1 (9/32 characters used)  
(The password is used for generating a key)

Privacy Method:  None  DES

Privacy Password:  Encrypted  Plaintext password2 (9/32 characters used)  
(The password is used for generating a key)

Apply Close

注意：在本例中，选择纯文本。

步骤10.输入密码。

The screenshot shows a configuration window with the following fields and options:

- User Name:** SNMP\_User1 (10/20 characters used)
- Engine ID:**  Local,  Remote IP Address
- Group Name:** SNMP\_Group
- Authentication Method:**  None,  MD5,  SHA
- Authentication Password:**  Encrypted,  Plaintext (password1) (9/32 characters used)  
(The password is used for generating a key)
- Privacy Method:**  None,  DES
- Privacy Password:**  Encrypted,  Plaintext (password2) (9/32 characters used)  
(The password is used for generating a key)

Buttons: Apply, Close

**注意：**在本例中，口令为password1。

步骤11.单击Privacy Method。选项有：

- 无 — 此选项表示密码未加密。
- DES — 此选项表示密码使用数据加密标准(DES)加密。DES是一种标准，它采用64位输入值，并使用56位密钥对消息进行加密和解密。它是一种对称加密算法，发送方和接收方使用相同的密钥。

**User Name:** SNMP\_User1 (10/20 characters used)

**Engine ID:**  Local  Remote IP Address

**Group Name:** SNMP\_Group

**Authentication Method:**  None  MD5  SHA

**Authentication Password:**  Encrypted  Plaintext password1 (9/32 characters used)  
(The password is used for generating a key)

**Privacy Method:**  None  DES

**Privacy Password:**  Encrypted  Plaintext password2 (9/32 characters used)  
(The password is used for generating a key)

**Buttons:** Apply Close

**注意：**只能为配置了身份验证和隐私的组配置隐私方法。有关详细信息，请单击[此处](#)。在本例中，选择DES。

步骤12. ( 可选 ) 如果选择DES，请选择Privacy Password身份验证。选项有：

- Encrypted — 此选项表示密码将加密。输入时不会显示。
- 明文 — 此选项表示密码不会加密。它将显示为正在输入。

**User Name:** SNMP\_User1 (10/20 characters used)

**Engine ID:**  Local  Remote IP Address

**Group Name:** SNMP\_Group

**Authentication Method:**  None  MD5  SHA

**Authentication Password:**  Encrypted  Plaintext password1 (9/32 characters used)  
(The password is used for generating a key)

**Privacy Method:**  None  DES

**Privacy Password:**  Encrypted  Plaintext password2 (9/32 characters used)  
(The password is used for generating a key)

**Buttons:** Apply Close

注意：在本例中，选择纯文本。

步骤13.输入DES密码。

The screenshot shows a configuration window with the following fields and options:

- User Name:** SNMP\_User1 (10/20 characters used)
- Engine ID:** Local (selected), Remote IP Address (dropdown)
- Group Name:** SNMP\_Group (dropdown)
- Authentication Method:** None, MD5, SHA (SHA is selected)
- Authentication Password:** Encrypted (disabled), Plaintext password1 (9/32 characters used) (The password is used for generating a key)
- Privacy Method:** None, DES (selected)
- Privacy Password:** Encrypted (disabled), Plaintext password2 (9/32 characters used) (The password is used for generating a key) - This field is highlighted with a red box.

Buttons: Apply, Close

注意：在本例中，DES密码为password2。

步骤14.单击“应用”，然后单击“关闭”。

This screenshot is identical to the previous one, showing the same configuration settings. The 'Apply' button at the bottom left is highlighted with a red box.

Buttons: Apply, Close

步骤15. ( 可选 ) 单击Save。



现在，您应该已将SNMP用户添加到交换机。

## 修改SNMP用户

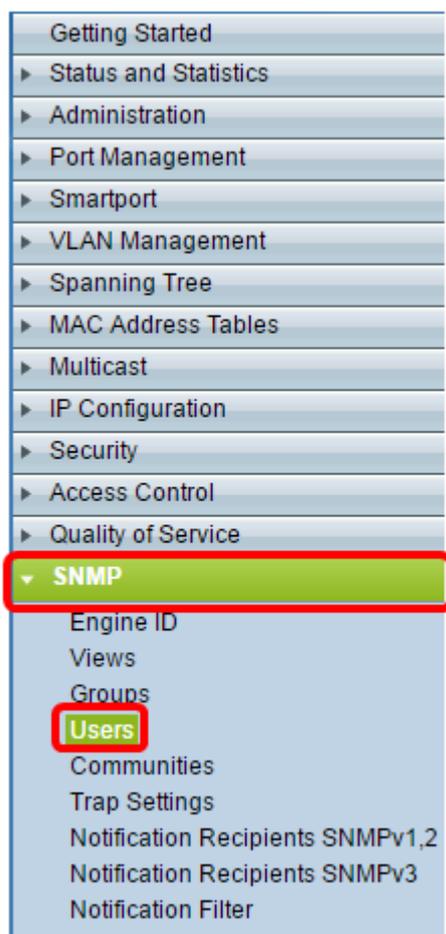
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步骤2.将Display Mode更改为**Advanced**。

**注意：**此选项在SG300系列和SG500系列交换机上不可用。如果有这些型号，请跳至[步骤3](#)。



[步骤3](#).选择SNMP > Users。



步骤4.选中与要编辑的用户对应的复选框。

## Users

The SNMP service is currently disabled.

For a user configuration to be effective, its associated [Groups/ Views](#) must be defined, and the [SNMP service](#) must be enabled.

### User Table

<input checked="" type="checkbox"/>	User Name	Group Name	Engine ID	IP Address	Authentication Method	Privacy Method
<input checked="" type="checkbox"/>	SNMP_User1	SNMP_Group	Local		SHA	DES

Add... Edit... Delete

An \* indicates that the corresponding user configuration is inactive because the associated group no longer exists.

步骤5.单击“编辑”。

## Users

The SNMP service is currently disabled.  
For a user configuration to be effective, its associated [Groups/ Views](#) must be defined, and the [SNMP service](#) must be enabled.

### User Table

<input checked="" type="checkbox"/>	User Name	Group Name	Engine ID	IP Address	Authentication Method	Privacy Method
<input checked="" type="checkbox"/>	SNMP_User1	SNMP_Group	Local		SHA	DES

Add... Edit... Delete

An \* indicates that the corresponding user configuration is inactive because the associated group no longer exists.

步骤6.编辑需要更改的设置。

**User Name:**  (10/20 characters used)

**Engine ID:**  Local  Remote IP Address

**Group Name:**

**Authentication Method:**  None  MD5  SHA

**Authentication Password:**  Encrypted   Plaintext  (9/32 characters used)  
(The password is used for generating a key)

**Privacy Method:**  None  DES

**Privacy Password:**  Encrypted   Plaintext  (9/32 characters used)  
(The password is used for generating a key)

步骤7.单击“应用”，然后单击“关闭”。

**User Name:**  (10/20 characters used)

**Engine ID:**  Local  
 Remote IP Address

**Group Name:**  ▼

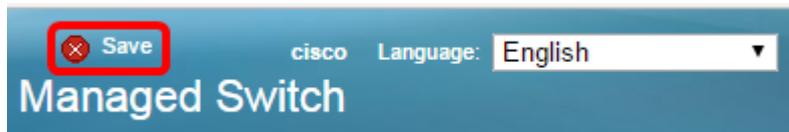
**Authentication Method:**  None  
 MD5  
 SHA

**Authentication Password:**  Encrypted   
 Plaintext  (9/32 characters used)  
(The password is used for generating a key)

**Privacy Method:**  None  
 DES

**Privacy Password:**  Encrypted   
 Plaintext  (9/32 characters used)  
(The password is used for generating a key)

步骤8. ( 可选 ) 单击**Save**。



您现在应该已成功编辑SNMP用户设置。