在交换机上配置简单网络管理协议(SNMP)组

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组用于根据访问权限和对MIB中不同SNMP视图的授权来组合SNMP用户。每个 SNMP组由组名称和安全级别的组合唯一标识。

本文档说明如何在交换机上创建和配置SNMP组。它假设已为设备配置了SNMP视图。有关详 细信息,请单<u>击此处</u>。

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

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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。如果您有这些型号,请跳至<u>步骤3</u> 。

cisco	Language:	English	•	Display Mode:	Basic	•	Logout	SNA	About
itch					Basic				
item .					Advance	d			

<u>步骤3.选</u>择SNMP > Groups。

Dashboard Configuration Wizards Search Status and Statistics Administration Port Management Smartport VLAN Management Spanning Tree MAC Address Tables Multicast IP Configuration Security Access Control Quality of Service SNMP Engine ID Viewe
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Access Control Quality of Service SNMP Engine ID Viewe
Quality of Service SNMP Engine ID Views
SNMP Engine ID Viewe
Engine ID Views
Viewe
VIEWS
Groups
Users
Communities
Notification Recipients SNMPv1.2
Notification Recipients SNMPV1,2
Notification Filter
Notification Recipients SNMPv1,2 Notification Recipients SNMPv3

步骤4.单击Add创建新的SNMP组。

Groups For group configuration to become effective, you may have to configu										
Group Table										
	Group Name	Security Model	No Authentication Views							
			Read Write		Notify					
0 results found.										
Add Edit Delete										
An * i	ndicates that the	e corresponding gr	oup conf	iguration	is inactive					

步骤5.在Group Name字段中输入SNMP组的名称。

🗢 Group Name:	SNMP_Group1	(11/30 characters used)
Security Model:	 SNMPv1 SNMPv2 SNMPv3 	

注意:在本例中,组名为SNMP_Group1。

步骤6.在Security Model(安全模型)区域中为SNMP Version选择单选按钮。选项有:

- SNMPv1 此选项表示没有身份验证和隐私。
- SNMPv2 此选项包括大多数SNMPv1功能。它还提供身份验证,以确保SNMP消息在 授权实体之间交换。
- SNMPv3 此选项包含SNMPv2功能,并提供身份验证和隐私,以确保只有授权实体才能查看SNMP消息。

🗳 Group Name:	SNMP_Group1	(11/30 characters used)
Security Model:	SNMPv1 SNMPv2 SNMPv3	

注意:在本例中,选择SNMPv3。

步骤7.选中与新创建的SNMP组所需的安全级别对应的Enable复选框。选项有:

- •无身份验证和无隐私 此选项表示没有为组分配身份验证和数据加密。
- •身份验证和无隐私 此选项对SNMP消息进行身份验证并确保其来源经过身份验证。
- •身份验证和隐私 此选项对SNMP消息进行身份验证并加密。

	Group Na	me: SNMP_Group1	(11/30 characters used)									
	Security M	lodel: OSNMPv1 SNMPv2 SNMPv3										
	Enable	Security Level	View									
		No Authentication and No Privacy		Read	Default	T		Write				
		Authentication and No Privacy		Read	Default			Write				
		Authentication and Privacy	-	Read	Default	T	-	Write				
	<u> </u>											
_	Apply	Close										

步骤8. SNMP视图是MIB对象的子集,可分配给SNMP组,以控制SNMP用户对MIB对象信息 的写、读和通知权限。选中所需的访问权限(如读取、写入和通知)复选框,并从新创建的 SNMP组的下拉列表中选择所需视图。下拉列表包含默认视图和用户定义的视图。

- 读取 所选视图的管理访问权限为只读。
- 写入 为所选视图写入管理访问权限。
- 通知 当选定视图上发生事件时,会向SNMP用户发送通知消息。这仅在SNMPv3上可用。

Enable	Security Level	View									
	No Authentication and No Privacy		Read	Default	٣	Write	Default	Ŧ	Notify	Default	Ŧ
	Authentication and No Privacy		Read	Default	Ψ	 Write	Default	Ψ	Notify	Default	Ψ
	Authentication and Privacy		Read	Default	۳	Write	Default	۳	Notify	DefaultSup	er 🔻

步骤9.单击Apply将SNMP组保存到运行配置文件。

Security Model:			SNMP_Grou SNMPv1 SNMPv2 SNMPv3	ip1	(11/30 c	haracter	s used)			
	Enable	Secur	ity Level		View					
		No Au	thentication	and No Privacy	/	Read	Default	T		Write
		Authe	ntication and	d No Privacy		Read	Default			Write
		Authe	ntication and	d Privacy	√	Read	Default	•	-	Write
	Apply	Cl	ose							

步骤10.(可选)如果配置组的安全模型或安全级别需要更改,请选中相应的复选框,然后单击"编辑"**以实**施更改。

Enable	Security Level	View										
	No Authentication and No Privacy		Read	Default	Ŧ	Write	Default	Ψ		Notify	Default	Ŧ
	Authentication and No Privacy		Read	Default	Ŧ	Write	Default	Ŧ		Notify	Default	Ŧ
	Authentication and Privacy	1	Read	Default	۲	Write	Default	•	1	Notify	DefaultSupe	f 🔻

第11步。(可选)要从组表中删除组,请选中相应的复选框,然后单击**删除**。

Gro	Groups											
For g	For group configuration to become effective, you may have to configure the corresponding parameters on the Views page.											
Group Table												
	Group Name	Security Model	No Auth	No Authentication Views			Authentication Views			Privacy Views		
			Read	Write	Notify	Read	Write	Notify	Read	Write	Notify	
	SNMP_Group	SNMPv3							Default	Default	DefaultSuper	
	SNMP_Group1	SNMPv3							Default	Default	DefaultSuper	
	Add Edit Delete											

步骤12.(可选)单击"保存"将设置保存到启动配置文件。



现在,您应该已在交换机上成功配置SNMP组。