排除Meraki MS和MX设备中的第3层接口配置问 题

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简介

本文档介绍如何对Meraki MS和MX设备中的第3层接口配置问题进行故障排除。

先决条件

要求

Cisco 建议您了解以下主题:

- Meraki解决方案的基本知识
- Meraki MS交换机上的配置暴露
- Meraki MX安全设备上的配置暴露

使用的组件

本文档中的信息基于以下软件和硬件版本:

- Meraki MS Stack交换机和MS 15.8之前版本的软件版本。
- Meraki MX安全设备和MX 15.8之前版本的软件版本。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

问题

在Meraki堆叠交换机中添加新的第3层接口的步骤:

1.登录Meraki控制面板。

- 2.导航至Switch > Configure > Routing & DHCP,如图所示。
- 3.在"接口"**部分**中,单击**"添**加",如图所示。

disco Meraki	Q Search Dashboard		¶3 Announcements →	⊕ Help +					
ORGANIZATION	Routing & DHCP)							
	SWITCH OR SWITCH STACK	IP ADDRESS							
NETWORK	Select *	Select *							
	Interfaces								
	Search 5	2 Interfaces							Add Edit *
Network-wide	Switch		VLAN	Name	Subnet	IP	DHCP Settings	OSPF Routing	Multicast Routing
Switch	MONITOR	CONFIGURE	1011	OSPF Uplink To VE1	10.247.168.136/30	10.247.168.138	Off	Enabled	Disabled
Organization	Switches	Routing & DHCP	1012	OSPF Uplink To VE2	10.247.168.140/30	10.247.168.142	Off	Enabled	Disabled
	Switch ports	OSPF routing	72	Wireless	10.151.192.0/24	10.151.192.1	Relay	Enabled	Disabled
	Switch stacks	ACL	102	3rd floor VOIP1	10.151.193.0/24	10.151.193.1	Relay	Enabled	Disabled
		Port schedules	103	3rd_FL_VOIP6_SIU Department VOIP	10.151.194.0/24	10.151.194.1	Relay	Enabled	Disabled
		Switch settings	104	3rd_FL_Data6_SIU Department Data	10.151.195.0/24	10.151.195.1	Relay	Enabled	Disabled
		Staged upgrades	105	2rd El Data4 ald2rd El Data1	10 151 106 0/24	101511081	Dalau	Enshlad	Dirablad

Meraki MS交换机路由和DHCP设置

在Meraki MX安全设备中添加新的第3层接口的步骤:

1.登录Meraki控制面板。

2.导航至"安**全和SD-WAN">"配置">"编址和VLAN"**,如图所示。

3.在"路由**"部**分,单**击"添**加VLAN",如图所示。

disto Meraki	Q Search Dashboard							¥3 Announcements *	@ Help +		
	This network is acting as the configuration template for <u>1 network</u> .										
ORGANIZATION	Addressing & VLANs										
· ·	ANNI GOOING VE FEATRO										
NETWORK	Deployment Settings										
-	Mode	O Routed									
Network-wide		In this m configu its source Configu	node, the MX will act as a red below. Client traffic to ce IP becomes the uplink re DHCP on the <u>DHCP se</u>	layer 3 gateway between the subnets o the internet is translated (NATed) so that IP of the security appliance. <u>Httings page</u> .							
Cellular Gateway		 Passthree 	ough or VPN Concentrato	×							
contailer contentaj	This option can be used for two deployment models: in-line passtrough or one-arm constraints: in a passtrough deployment, the security appliance										
Security & SD-WAN	CONFIGURE	acts as a Layer 2 bridge, and does not route or translate client traffic. In a one-arm concentrator deployment, the security appliance acts as a									
Switch	Addressing & VLANs	For more	tion point for Meraki Auto e information on how to d see our documentation	o VPN traffic to and from remote sites. deploy an MX in one-arm concentrator							
Wireless	DHCP	11004, 4	No. No. Mo. all Million								
	Firewall										
Organization	Site-to-site VPN	• • • • • • • • • • • • • • • • • • •	Anna Data a								
	Client VPN	Clients	are identified by their MA								
	Active Directory	devices	and your security applian	nce are on the same subnet and broadcast							
	SD-WAN &	AVAN a domain. Clients beind a usyr 3 routing device downstream from this security appliance with not be identified.									
	traffe shaping iP address Trives protection Content filtering Clients are identified by their P addresses. You should use this if there are Content filtering Clients are identified by their P addresses. You should use this if there are Access content Access content Splash page Weeless concentrator										
9	Routing										
	LAN setting	VLANs	Single LAN								
	Subnets		earch by VLAN name, MX	(IP							
			VLAN name	Subnet	MX IP	Group policy VI	PN mode				
		0 1	LAN	/29 from 10.0.0.0/8	Auto-generated	None 8	inabled				
		0 2	NO DHCP	/29 from 10.0.0.0/8	Auto-generated	None	inabled				
Meraki MX安	全设备路由设置										

在Meraki MS425堆叠交换机和Meraki MX安全设备上配置新的第3层接口时,请参阅观察到的症状

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1. Meraki堆叠交换机和MX安全设备在Meraki控制面板中进入"无法访问"状态,Meraki MS交换机和 MX安全设备设备与Meraki控制面板的连接中断。

2. Meraki堆栈交换机和Meraki MX安全设备会停止转发流量。

3. L3接口的更改会触发Meraki堆栈交换机,而Meraki MX安全设备会为路由输入错误的VLAN编号

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解决方案

Meraki MS堆叠交换机:

1.在Meraki堆叠交换机上添加新的第3层接口并重新启动堆叠交换机。这将刷新正确的VLAN路由信息,Meraki堆栈开始转发流量。(临时修复)

2.将Meraki堆栈交换机软件版本升级到MS 15.8或更高版本。

Meraki MX安全设备:

1.在MX安全设备上添加新的第3层接口并重新启动MX安全设备。这将刷新正确的VLAN路由信息 ,Meraki安全设备将开始转发流量。(临时修复)

2.将Meraki MX安全设备软件版本升级到MX 15.8或更高版本。