修复WLC ";达到流导出器数量的最大限制";错 误

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简介

本文档介绍如何使用Cisco Catalyst Center修复WLC的遥测任务中的错误"达到流导出器数量的最大限制"。

先决条件

要求

您需要访问:

- 具有超级管理员角色的Cisco Catalyst Center GUI。
- 具有管理员角色的AirOS无线控制器CLI和GUI。

使用的组件

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

当已在带有AirOS的思科无线控制器WLC 5520中配置流导出器时,Cisco Catalyst Center遥测调配 预计会失败,因为该设备仅支持配置一个流导出器。因此,由于WLC对配置两个或多个流导出器的 限制,Cisco Catalyst Center无法覆盖该配置,从而导致调配任务失败:

Netflow设置的部署已启动。

失败:在设备10.88.244.161上配置新的Netflow收集器服务器配置设置IP: [10.10.10.10]和端口: [6007]失败,异常:运行XDE过程时出错。错误消息:执行命令config flow create exporter 10.10.10.10 10.10.10.10 port 6007时出错。命令输出:config flow create exporter 10.10.10.10

10.10.10 port 6007 Reached Max limit for Number of Flow Exporters。

	Provision - Network Devices - Inventory Preview New Page
WLC-552)
Management IP Device Type Device Role	10.88.244.161 Zisco 5520 Series Wireless Controllers ACCESS
	COMPLETED: Deconfiguring old SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244.161 completed successfully. COMPLETED: Configuring new SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244.161 completed successfully.
۰	Deployment of dns setting SUCCES: No change in setting, so no operation was performed Process success on all devices.
٠	Deployment of netflow setting FAILED Deployment of netflow setting initiated Retry FAILED: Configuring new Netflow Collector Server Configuration Settings IP: [10.10.10.10] and Port: [6007] on the device: 10.88.244.161 failed with exception: Error in running XDE Procedure, Error Message::Error occured while executing the command 'config flow create exporter 10.10.10.10 10.10.10.10 port 6007'.Command Output : config flow create exporter 10.10.10.10 10.10.10.10 port 6007 Reached Max limit for Number of Flow Exporters.
•	Application telemetry SUCCES

遥测任务错误详细信息



注意:Cisco Catalyst Center只能推送首个用于无线控制器的NetFlow收集器服务器,因为 它对流导出器的数量有限制。

请注意,Cisco Catalyst Center正在尝试将流导出器推送到WLC,但设备已经配置了一个流导出器 ,如CLI输出中所确认:

<#root>

(Cisco Controller) >

show flow exporter summary

Exporter-name: fer_exporter Total Flows Sent: 1147297289 Total Pkts Sent: 81828210 Total Pkts Dropped:

Cisco Catalyst Center尝试将Network Settings中配置的Netflow Collector设置推送到WLC,但设备 达到了仅配置一个的流导出器限制。这会导致任务失败,即使流导出器相同。

解决方案

1-通过在WLC CLI中运行命令,验证AirOS WLC已达到流导出器的最大限制数量:

<#root>

(Cisco Controller) >

show flow exporter summary

Exporter-Name	Exporter-IP	Port
		=====
fer_exporter	10.10.10.10	6007

在此CLI输出中,您会看到WLC已配置名为fer_exporter的流导出器,并且它在遥测调配任务期间会导致Cisco Catalyst Center发生冲突。

2-导航到Cisco Catalyst Center菜单>设计>网络设置>遥测选项卡并验证是否已配置Netflow收集器 服务器。您可以将Cisco Catalyst Center或外部服务器配置为流量收集器服务器:

PAddress Pools	SP Profiles	Wireless	Telemetry
Configure Syslog are assigned to	g, Traps and NetF a site or provision	flow properties ned.	for your devices. The system will deploy these settings when devices
Cisco DNA Cent metrics gathered	er is your default I and the frequer	SNMP collecto	r. It polls network devices to gather telemetry data. View details on the hey are collected.
✓ NetFlow ■			
Choose Cisco	DNA Center to	be your NetFlow	v collector server, and/or add any external
NetFlow colle	ctor server. This	is the destination	on server for NetFlow export from network
devices. Cisc	o DNA Center wi	Il only push the	first NetFlow collector server for Wireless
Controller as	it has a restrictio	n on the number	er of flow exporters.
🔽 Use Cisc	o DNA Center as	NetFlow collect	ctor server
INTERFACES		ION TELEMET	RY
To enable tel	emetry on a devi	ce , select the c	device from the Provision table and choose
"Actions->En	able Application	Telemetry" By d	default, All access interfaces on a switch OR all
LAN-facing in	nterfaces on a ro	uter will be prov	visioned. To override this default behavior, tag
specific inter	faces to be desig	nated as LAN in	nterface, by putting the keyword "lan" in the
interface des	cription.		A second s
Once specific	: interfaces are ta	agged those int	erfaces will be monitored.
Add an e	xternal NetFlow o	collector server	
Only the extern	al server destination	n will be configur	red on network devices. Flow records will not be configured.

3-登录到AirOS WLC GUI,然后导航到Wireless > Netflow > Exporter,查看设备中配置的流导出器 的列表:

	ဂျက်၊ င၊sco	MONITOR	<u>W</u> LANs	CONTROLLER	W <u>I</u> RELESS	<u>S</u> ECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP
W	ireless	Exporter	List						
•	Access Points All APs	Exporter	Name		Ex	porter Ip	Port Num	ber	
	Direct APs ▼ Radios 802.11a/n/ac/ax 802.11b/g/n/ax Dual-Band Radios Dual-5G Radios Global Configuration	fer_exporte	<u>er</u>		10	10.10.10	6007		
Þ	Advanced								
	Mesh								
Þ	AP Group NTP								
Þ	ATF								
	RF Profiles								
	FlexConnect Groups								
Þ	FlexConnect ACLs								
	FlexConnect VLAN Templates								
	Network Lists								
Þ	802.11a/n/ac/ax								
Þ	802.11b/g/n/ax								
Þ	Media Stream								
•	Application Visibility And Control								
	Lync Server								
	Country								
	Timers								
*	Netflow Monitor Exporter								
Þ	QoS								
WI	_C GUI Netflow配置								

4-搜索您的流导出器名称,并从箭头下拉菜单中选择删除。在本示例中,已配置的流导出器的名称 命名为fer_exporter,如步骤1中所确认。

	uluilu cisco	MONITOR	<u>w</u> lans	CONTROLLER	WIRELESS	<u>S</u> ECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP	
Wi	reless	Exporter	List							
 Access Points All APs Direct APs Radios 802.11a/n/ac/ax 802.11b/g/n/ax Dual-Band Radios Dual-5G Radios Global Configuration 	Access Points All APs	Exporter	Name		Đ	porter Ip	Port Numb	lumber		
	fer_exporte	<u>er</u>		10	.10.10.10	6007	Remove			
•	Advanced Mesh									

删除导出器

5-如果删除流导出器时正在使用它,您会收到一条警告消息,指示导出器在流监控器中关联。在通

过首先删除流监控器来删除关联之前,不能删除该关联:

ITY M <u>A</u> NAGEMENT C	10.88.244.161 says		
	Flow Exporter is associated to a Flow Monitor.		
		ок	

流导出器

6-要删除流监控器,请导航到无线> Netflow >监控器,并选择与fer_exporter关联的流监控器,以便 将其删除:

cisco	MONITOR	<u>W</u> LANs	<u>C</u> ONTROLLER	WIRELESS	<u>S</u> ECURITY	MANAGEMENT	COMMANDS	HELP	<u>F</u> EEDBACK		
Wireless	Monitor L	ist page.)								
Access Points											
All APs	Monitor Name			Record Name			Exporter Name			Port Num	ber
Direct APs Radios	fer Monitor			none			fer_exporter			.10 6007	Remove
802.11a/n/ac/ax 802.11b/g/n/ax Dual-Band Radios Dual-5G Radios Global Configuration											Kemove
Advanced											
Mesh											

流监控器

在本示例中,与流导出器关联的流监控器的名称命名为fer_Monitor。如果流监控器与WLAN关联 ,则删除流监控器时,由于与WLAN的关联,您会收到与流导出器类似的消息:

		_			
ittv		6	10.88.244.161 says		
LIT	MANAGEMENT	Ľ,			
			Flow Monitor is associated to one of the Wlan.		
			o	ж	

WLC GUI Netflow配置

7-导航到WLANs选项卡并展开WLANs部分以查看在WLC中配置的WLAN:

uluilu cisco	MONITOR V	<u>V</u> LANs <u>C</u> ON	VTROLLER	WIRELESS	<u>S</u> ECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP				
WLANs	WLANs											
WLANs WLANs	Current Filter	None		[Change Filter	r] [Clear Filter]						Create New	♥ Go
Advanced	WLAN ID	Туре	Profile Nar	me		WLAN SSID			Admin Status	Security Policies		
		WLAN	testt			test			Disabled	[WPA2][Auth(802	.1X)]	
	2	WLAN	CiscoSensor	rProvisioning		CiscoSensorProv	isioning		Enabled	[WPA2][Auth(802	.1X)]	
	17	WLAN	San_Angel_	_Global_F_aa	afacd3	San_Angel_Oper	n		Disabled	None		
	<u>18</u>	WLAN	aaa_profile			aaa			Enabled	[WPA2][Auth(802	.1X)]	
	19	WLAN	San Angel G	Guest_profile		San Angel Guest			Enabled	MAC Filtering		
	20	WLAN	San Angel P	SK_profile		San Angel PSK			Enabled	None		

WLC GUI WLAN配置

8-打开所有WLAN配置以检查流监控器字段是否在QoS选项卡中选择了fer_Monitor,因此您可以通 过选择选项none将其删除:

uluili. cisco	<u>M</u> ONITOR <u>W</u> LANS <u>C</u> ONTROLLER WIRELESS <u>S</u> ECURITY M <u>A</u> NAGEMENT C <u>O</u> MMANDS HELP
WLANs	WLANs > Edit 'San_AngelGlobal_F_aaafacd3'
WLANs WLANs	General Security QoS Policy-Mapping Advanced
Advanced	Quality of Service (QoS) Platinum (voice)
	Application Visibility I Enabled AVC Profile none
	Flex AVC Profile none Netflow Monitor fer_Monitor
	Fastlane Disable 🗸
	Override Ber-User Bandwidth Contracts (khns) 16

WLC GUI Netflow配置

،، ،،، ،، cısco	<u>M</u> ONITOR <u>W</u> LANS <u>C</u> ONTROLLER W <u>I</u> RELESS <u>S</u> ECURITY M <u>A</u> NAGEMENT C <u>O</u> MMANDS HELP
WLANs	WLANs > Edit 'San_AngelGlobal_F_aaafacd3'
WLANS	General Security QoS Policy-Mapping Advanced
Advanced	Quality of Service (QoS) Platinum (voice)
	Application Visibility 🛛 Enabled
	AVC Profile none 🗸
	Flex AVC Profile none 🗸
	Netflow Monitor none
	Fastlane Disable 💙
	Override Per-licer Randwidth Contracts (khns) 16

WLC GUI Netflow配置

9-从WLAN中删除流监控器后,现在即可按步骤5所述删除流监控器,并最终按步骤4所述删除流导出器。

	ဂျကျက cisco	<u>M</u> ONITOR	<u>W</u> LANs	<u>C</u> ONTROLLER	WIRELESS	<u>S</u> ECURITY	M <u>A</u> NAGEMENT	C <u>O</u> MMANDS	HELP
Wireless		Exporter	List						
*	Access Points All APs Direct APs ▼ Radios 802.11a/n/ac/ax 802.11b/g/n/ax Dual-Band Radios Dual-5G Radios Global Configuration	Exporter N	lame		Ex	porter Ip	Port Number		
Þ	Advanced								
	Mesh								
•	AP Group NTP								

WLC GUI Netflow配置

10-现在,是时候在Cisco Catalyst Center资产中重新同步WLC了,同步完成后,即可开始遥测调配 任务。此时,任务可以成功,因为WLC中没有配置更多流导出器:

	Activities - Tasks	Q (0)	۵ ۵
DEVICE CONTRO Update Te	elemetry Settings Task		×
Starts: Feb 15, 2	023 1:35 PM Status: 📀 Success Last upt	dated: 1:36:54 PM	C Refresh
	Deployment of snmp setting SUCC Deployment of snmp setting initiated COMPLETED: Deconfiguring old SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244.161 completed successfully. COMPLETED: Configuring new SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244 completed successfully. completed successfully.	ESS 4.161	
۰	Deployment of dns setting SUCC No change in setting, so no operation was performed Process success on all devices.	ESS	
٠	Deployment of netflow setting SUCC Deployment of netflow setting initiated COMPLETED: Configuring new Netflow Collector Server Configuration Settings IP: [10.10.10.10] and Port: [6007] of the device: 10.88,244.161 completed successfully.	ESS	
۰	Application telemetry SUCC Configuration of application telemetry is only applicable upon enable/disable application telemetry action, so no operation was performed	ESS	
۲	Install of Swim Certificate SUCC Setting does not apply to device, so no operation was performed	ESS	
۲	Deployment of WSA certificate SUCCO ICAP port configured Successfully Telemetry Subscriptions Configured Successfully	ESS	

成功遥测设置任务



注意:如果需要,解决方案中描述的所有步骤也可以通过WLC CLI执行,无需WLC GUI。

验证

遥测任务成功完成后,可以使用WLC CLI命令验证流导出器和保证。此外,通过检查WLC和AP的 Cisco Catalyst Center Assurance运行状况页面。

<#root>

(Cisco Controller) >

show flow exporter summary

Exporter-NameExporter-IPPort===============

dnacexporter 10.10.10.10



注意:Cisco Catalyst Center配置的流导出器硬编码为dnacexporter。

关于此翻译

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