修復WLC ";已達到流導出器數量的最大限制

";錯誤

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簡介

本文檔介紹如何使用Cisco Catalyst Center修復WLC的遙測任務中的「達到流導出器數量的最大限 制」錯誤。

必要條件

需求

您需要訪問:

- 具有超級管理員角色的Cisco Catalyst Center GUI。
- 具有管理員角色的AirOS無線控制器CLI和GUI。

採用元件

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

問題

當已在帶AirOS的Cisco無線控制器WLC 5520中配置流導出器時,Cisco Catalyst Center遙測調配預 計會失敗,因為該裝置僅支援一個要配置的流導出器。因此,由於WLC對配置兩個或多個流導出器 的限制,Cisco Catalyst Center無法覆蓋該配置,從而導致調配任務失敗:

已啟動Netflow設定的部署。

失敗:在裝置10.88.244.161上配置新的Netflow收集器伺服器配置設定IP: [10.10.10.10]和埠: [6007]失敗,異常:運行XDE過程時出錯。錯誤消息:執行命令config flow create exporter 10.10.10.10 10.10.10.0 port 6007時出錯。命令輸出: config flow create exporter 10.10.10.10

10.10.10 port 6007已達到流導出器數量的最大限制。

	Provision - Network Devices - Inventory Previe	w New Page
VLC-5520		
anagement IP 10.8 evice Type Cisc evice Role ACC	I8.244.161 o 5520 Series Wireless Controllers ESS	
	COMPLETED: Deconfiguring old SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244.161 completed succes COMPLETED: Configuring new SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244.161 completed succes	ssfully. sfully.
•	Deployment of dns setting No change in setting, so no operation was performed Process success on all devices.	SUCCESS
۰	Deployment of netflow setting Deployment of netflow setting initiated FAILED: Configuring new Netflow Collector Server Configuration Settings IP: [10.10.10.10] and Port: [6007] on the device: 10.88.244.161 fail 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 port 6007'.Command Output : config flow create exporter 10.10.10.10 10.10.10 port 6007 Reached Max limit f of Flow Exporters	FAILED Retry iled with 0.10 or Number
•	Application telemetry Configuration of application telemetry is only applicable upon enable/disable application telemetry action, so no operation was performed	SUCCESS

遙測任務錯誤詳細資訊



注意:Cisco Catalyst Center只能推送無線控制器的第一個NetFlow收集器伺服器,因為它 對流導出器的數量有限制。

請注意,Cisco Catalyst Center正在嘗試將流導出器推送到WLC,但裝置已配置了一個流導出器 ,如CLI輸出中所確認:

<#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嘗試將在「網路設定」中配置的Netflow收集器設定推送到WLC,但裝置達到 了隻配置了一個的流導出器限制。這會導致任務失敗,即使流導出器相同。

解決方案

1-透過在WLC CLI中運行命令,驗證AirOS WLC已達到流導出器的最大限制數量:

<#root>

(Cisco Controller) >

show flow exporter summary

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

在此CLI輸出中,您會看到WLC已配置了名為fer_exporter的流導出器,並且它正在遙測調配任務期 間對Cisco Catalyst Center造成衝突。

2-導航到Cisco Catalyst Center選單>設計>網路設定>遙測頁籤,驗證是否配置了Netflow收集器伺 服器。您可以將Cisco Catalyst Center或外部伺服器配置為流量收集器伺服器:

PA	ddress Pools	SP Profiles	Wireless	Telemetry
	Configure Syslo are assigned to	g, Traps and NetF a site or provisior	low properties red.	for your devices. The system will deploy these settings when devices
	Cisco DNA Cent metrics gathere	er is your default d and the frequen	SNMP collecto cy with which t	r. It polls network devices to gather telemetry data. View details on the hey are collected.
	✓ NetFlow [™]			
	Choose Cisc	o DNA Center to	be your NetFlow	v collector server, and/or add any external
	NetFlow colle	ector 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 numbe	er of now exporters.
	🔽 Use Cisc	o DNA Center as	NetFlow collect	ctor server
	INTERFACES	S FOR APPLICAT	ION TELEMET	RY
	To enable tel	emetry on a device	ce , select the d	device from the Provision table and choose
	"Actions->Er	able Application	Telemetry" By d	default, All access interfaces on a switch OR all
	LAN-facing i	nterfaces on a rol	uter will be prov	visioned. To override this default behavior, tag
	specific inter	faces to be desig	nated as LAN II	nterface, by putting the keyword "lan" in the
	Once specifi	c interfaces are ta	agged those int	erfaces will be monitored.
	🗌 Add an e	xternal NetFlow c	ollector server	
	Only the extern	nal server destinatio	n will be configur	red on network devices. Flow records will not be configured.

Cisco DNA Center Netflow收集器設定

3-登入到AirOS WLC GUI,然後導航到Wireless > Netflow > Exporter檢視裝置中所配置的流導出器 的清單:

	ဂျက်၊ င၊sco	MONITOR	<u>W</u> LANs	<u>C</u> ONTROLLER	WIRELESS	<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 Numb	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								
•	802.11b/g/n/ax								
Þ	Media Stream								
•	Application Visibility And Control								
	Lync Server								
	Country								
	Timers								
*	Netflow Monitor Exporter								
•	QoS								
WI	_C GUI Netflow設定								

4-搜尋流導出器名稱,然後從箭頭下拉選單中選擇刪除。在本示例中,已配置的流導出器的名稱為 fer_exporter,如步驟1中所確認。

	ululu cisco	MONITOR	<u>W</u> LANs	CONTROLLER	WIRELESS	<u>S</u> ECURITY	M <u>A</u> NAGEMENT	C <u>O</u> MMANDS	HELP
W	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 I	Name		Đ	porter Ip	Port Numb	er	
	fer_exporte	er		10	.10.10.10	6007	Remove		
•	Advanced Mesh								

刪除導出器

5-如果在刪除流導出器時正在使用該流導出器,則您可能會收到一條警告消息,說明該導出器在流

監控器中已關聯。在透過首先刪除流監控器來刪除關聯之前,無法將其刪除:

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

流導出器

6-要刪除流監控器,請導航到Wireless > Netflow > Monitor,並選擇與fer_exporter關聯的流監控器 ,以便將其刪除:

cisco	MONITOR	<u>W</u> LANs	<u>C</u> ONTROLLER	WIRELESS	<u>S</u> ECURITY	MANAGEMEN	COMMANDS	HELP	<u>F</u> EEDBACK		
Wireless	Monitor L	_ist page	2								
 Access Points All APs 	Monitor N	ame		Record Nan	10	F	xporter Name		Exporte	erIn Port Nu	mber
Direct APs	fer Monitor			none		ts Is	r exporter		10.10.10	0.10 6007	Remove
Advanced											
Mesh											

流量監控器

在本示例中,與流導出器關聯的流監控器的名稱命名為fer_Monitor。如果流監控器與WLAN關聯 ,則在刪除流監控器時,由於與WLAN關聯,您可能會收到與流導出器類似的消息:

		-			
			10.88.244.161 says		
ITY	M <u>A</u> NAGEMENT	C			
			Flow Monitor is associated to one of the Wlan.		
				ОК	

WLC GUI Netflow設定

7-導航到WLANs頁籤,然後展開WLANs部分以檢視WLC中配置的WLAN:

uluilu cisco	MONITOR Y	<u>N</u> LANs <u>C</u> OM	NTROLLER	WIRELESS	<u>S</u> ECURITY	MANAGEMENT	C <u>O</u> MMANDS	HELP				
WLANs	WLANs											
WLANS	Current Filter	None		[Change Filte	r] [Clear Filter]						Create New	♥ Go
Advanced	WLAN ID	Туре	Profile Nar	ne		WLAN SSID			Admin Status	Security Policie	s	
		WLAN	testt			test			Disabled	[WPA2][Auth(802	2.1X)]	
	2	WLAN	CiscoSensor	Provisioning		CiscoSensorProvi	isioning		Enabled	[WPA2][Auth(802	2.1X)]	
	17	WLAN	San_Angel_	_Global_F_aa	afacd3	San_Angel_Open	i i		Disabled	None		
	<u>18</u>	WLAN	aaa_profile			aaa			Enabled	[WPA2][Auth(802	2.1X)]	
	<u>19</u>	WLAN	San Angel G	Suest_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-打開所有WLAN配置,檢視流監控欄位是否在QoS頁籤中選擇了fer_Monitor,以便透過選擇 none選項將其刪除:

ululu 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)
	AVC Profile none V
	Flex AVC Profile none V Netflow Monitor fer_Monitor V
	Fastlane Disable V

WLC GUI Netflow設定

،، ،،، ،، 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 HE <u>L</u> P
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
	Fastlane Disable 🗸
	Override Per-liser Randwidth Contracts (khns) <u>16</u>

9-從WLAN中刪除流監控器後,您現在可以刪除第5步中所述的流監控器,並最終刪除第4步中所述 的流導出器。

،،ا،،،ا،، cısco	MONITOR	<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
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		Exp	porter Ip	Port Number		
Advanced								
Mesh								
AP Group NTP								

WLC GUI Netflow設定

10-現在是在Cisco Catalyst Center資產中重新同步WLC的時候了,一旦它完成同步,您就可以啟動 遙測調配任務。這一次任務可以成功,因為WLC中不再配置流導出器:

	Activities . Tasks	Q	0	۲	\bigcirc
DEVICE CONTRO Update Te	elemetry Settings Task				×
Starts: Feb 15, 2	023 1:35 PM Status: Success Last update	d: 1:36:54	PM	C Re	fresh
•	Deployment of snmp setting SUCCESS 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: 10.88.244.16 completed successfully. Completed successfully.	1			
٠	Deployment of dns setting SUCCESS No change in setting, so no operation was performed Process success on all devices.				
٠	Deployment of netflow setting SUCCESS Deployment of netflow setting initiated COMPLETED: Configuring new Netflow Collector Server Configuration Settings IP: [10.10.10.10] and Port: [6007] on the device: 10.88,244,161 completed successfully.				
٠	Application telemetry SUCCESS Configuration of application telemetry is only applicable upon enable/disable application telemetry action, so no operation was performed				
۰	Install of Swim Certificate SUCCESS Setting does not apply to device, so no operation was performed				
۰	Deployment of WSA certificate SUCCESS ICAP port configured Successfully Telemetry Subscriptions Configured Successfully				



注意:如果需要,解決方案中描述的所有步驟也可透過WLC CLI執行,無需WLC GUI。

驗證

一旦遙測任務成功完成,您就可以使用WLC CLI命令驗證流導出器和保證。此外,透過檢查WLC和 AP的Cisco Catalyst Center Assurance運行狀況頁面。

<#root>

(Cisco Controller) >

show flow exporter summary

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

dnacexporter 10.10.10.10



注意:Cisco Catalyst Center配置的流導出器被硬編碼為dnacexporter。

關於此翻譯

思科已使用電腦和人工技術翻譯本文件,讓全世界的使用者能夠以自己的語言理解支援內容。請注 意,即使是最佳機器翻譯,也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準 確度概不負責,並建議一律查看原始英文文件(提供連結)。