在ESXi上託管的C9800-CL上配置控制檯埠

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簡介

本檔案介紹如何在ESXi上託管的Catalyst 9800無線LAN控制器(WLC)上設定主控台連線埠。

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必要條件

需求

思科建議您瞭解以下主題:

- Catalyst 9800 WLC
- 9800基本配置知識。

採用元件

- Cisco IOS®-XE版本17.3.2a上的C9800-CL。
- 虛擬環境和虛擬機器監控程式。
- •vSphere客戶端版本7.0.0.10100.

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。

設定

配置9800-CL埠

步驟1.在ESXi上部署虛擬機器(VM)後,關閉虛擬機器。導航到VM,按一下右鍵以獲取選單,按一 下箭頭以開啟電源,然後選擇**關機**。



步驟2.關閉VM後,再次導航到VM並按一下右鍵。在彈出的選單中,選擇「Edit Settings」。

vm	vSphere Clie	e Clier	🚯 Actions - C9800-CL-imancera-b	arch in all environments	C @~		Administrator@CALO.MEX-WIRELESS.COM V		
			Power	•					
Ü		8	Guest OS	s Cluster Actions V					
~ 🕫 vc	enter-mex-	wireles	Snapshots	fonitor Configure Permissions Hosts	VMs Da	atastores Network	s Updates		
~ 🖬	Mex-Wirele		🛒 Open Remote Console	Total Processors: 88			CPU	Free: 193.93 GHz	
~ [🗐 Wireless		🛃 Migrate	Total vMotion Migrations: 0			Used: 13.94 (GHz Capacity: 207.87 GHz	
	10.88.	173.55 173.57	Clone	. 🐥			Memory	Free: 386.66 GB	
	10.88.	173.59	Fault Tolerance	•			Used: 76.2 G	8 Capacity: 462.86 GB	
, ,	10.88.	173.61 Vireles:	VM Policies	•			Storage Used: 3.65 TE	B Capacity: 11.64 TB	
>			Template	•					
>			Compatibility	ts		vSphere DRS			
	- Ha 9800	-CL-A-li	Export System Logs	r 🖹 Mex-Wireless					
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		S vWL	Move to folder			Assigned Tag	Category	Description	
		0-CL-in	Rename	ners					
		are vCe	Edit Notes	utes					
		.w10	Tags & Custom Attributes	Value					
			Add Permission						
			Alarms					No items to display	
			Remove from Inventory						
Recent	Tasks	Alarm	Delete from Disk						

步驟3.在Edit Settings頁面上,選擇Virtual Hardware頁籤,然後點選Add New Device

vm vSphere Client Me	Edit Settings C9800-CL-imancera-	b			
<u> </u>	Virtual Hardware VM Options				
✓ ₽ vcenter-mex-wireless.cisco.com			ADD NEW DEVICE		
✓ Mex-Wireless	> CPU		0		
Vireless Cluster	> Memory	32		d: 13.94 GHz Ca	
10.88.173.57	> Hard disk 1	16 GB ~		nory	Free: 386.66 GB
10.88.173.59				d: 76.2 GB Ci	pacity: 462.86 GB
10.88.173.61	> SCSI controller 0	VMware Paravirtual			
> 🕞 Mex-Wireless > 🕞 PODS	> Network adapter 1	VLAN 2670 🗸	Connected	d: 3.66 TB	apacity: 11.64 TB
> PROD	> Network adapter 2	Trunk v	Connected		
📅 9800-0L-A-luisgzm	> Network adapter 3	HA VLAN ~	Connected		
📅 9800-CL-B-luisgzm 🚮 abernalv-9800-1	> CD/DVD drive 1	Datastore ISO File V	Connected		
ー 品 AireOS vWLC 橋 C9800-CL imancera-A	> CD/DVD drive 2	Datastore ISO File ~	Connected		
C9800-CL-imancera-b	> Video card				
WWware vCenter Server7	VMCI device				
		Hen Mahuark			
			CANCEL		

步驟4.在Add New Device功能表上,選擇Serial Port

				×			
vm vSphere Client Me	Edit Settings C9800-CL	-imancera-b					
vin vopriere client	Virtual Hardware VM Options						
mnea							
			ADD NEW DEVICE				
✓	> CPU		Disks, Drives and S				
V Im Mex-Wireless	> Memory	32 ~ GB ~	Hard Disk				
Vireless Cluster			Existing Hard	d: 13.73 GHz Capacity: 207.87 GHz			
10.88.173.55	> Hard disk 1		RDM Disk	nory Free: 386.66 GB			
10.88.173.57	> SCSI controller 0	VMware Paravirtual	CD/DVD Drive	± 76.2 GB Capacity: 462.86 GB			
E 10.88.173.59			Controllers	age Free: 7.98 TB			
> A Mex-Wireless	> Network adapter 1	VLAN 2670	NVMe Contr	d: 3,66 TB Capacity: 11.64 TB			
> PODS	> Network adapter 2	Trunk	SATA Contro				
> 🔘 PROD			SCSI Controll				
🛱 9800-1	> Network adapter 3	HA VLAN ~	USB Controll				
🙀 9800-CL-A-luisgzm			PCI Device				
🙀 9800-CL-B-luisgzm	> CD/DVD anve I	Datastore ISO File ~	Serial Port				
fill abernalv-9800-1	> CD/DVD drive 2	Datastore ISO File 🗸 🗸	Network				
			Network Ada				
C9800-CL-Imancera-A	> Video card						
R VMware vCenter Server7	VMCI device						
Fit w10	Carlot a sat -	tios Motuoda 💦 🔽 Conno	ana 🔿				
			CANCEL OK				

附註:在VM上,首先配置的串列埠用作控制檯埠,第二個串列埠用作輔助埠。若要使用主控 台連線埠,您必須兩者都具備。

步驟5.配置第一個串列埠

步驟5.1在Serial Port下拉式清單中選擇Use Network,然後勾選Connected覈取方塊。

步驟5.2有關狀態,請選中Connect At power On 覈取方塊。

步驟5.3從Direction下拉式清單中選擇Server。

步驟5.4在Port URI欄位中,輸入telnet://<VM所在主機的ip位址>:1892。

步驟6.重複步驟1到步驟5.4,新增第二個串列埠作為輔助埠運行。在Step5.4中,對於輔助埠,確保 為telnet使用不同的埠號。

		Bienvenido al cluster de virtualizacion d	e Mex-Wireless. Por favor asegurate de leer y seguir la	as reglas.			×
	E	dit Settings c9800-cL-imancera-	A				
	🔂 C9800-(> CD/DVD drive 2	Datastore ISO File v	Connected			
G vcenter-mex-wireless.cisco.com S		> Video card					
		VMCI device					
		✓ Serial port 1	Use Network 🗸 🗹 Connected				
		Status	Connect At Power On				
	A state of the sta		Server v				
			teinet://10.88.173.61:1894				
	Assessment Linear Assess B assess in Assess		Use Virtual Serial Port Concentrator				
		I/O Mode	Vield CPU on poll				
		 Serial port 2 	Use Network V Connected				
	LAUNCH W	Status	Connect At Power On				
			Connect of Connect of				
		Direction					
		Port Uki	teinet://10.88.173.61:1893				
			Use Virtual Serial Port Concentrator				
			Vield CPU on poll				
		> Other	Additional Hardware				
					_		
	CD/DVD drive 1			CANCEL	ĸ		
			48.1 GB used allocated				

附註:在進行HA部署時,您可以將這些埠號用於串列線路 — 1892(控制檯VM1)、 1891(AUX VM1)、1894(控制檯VM2)和1893(AUX VM2)。

配置VM以提供控制檯輸出

在虛擬機器上配置串列埠後,需要開啟虛擬機器電源,並通過vSphere的Web控制檯或遠端控制檯 訪問虛擬機器。VM正確啟動後,您需要輸入命令platform console serial,然後執行write memory(如圖所示)。

imancera-b#config
Sep 28 13:47:31.248: %SYS-5-CONFIG_I: Configured from console by console
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
imancera-b(config)#platform console serial
imancera-b(config)#

通過Telnet訪問虛擬機器

開啟您喜歡的終端模擬器,然後指向在您的終端模擬器上使用Telnet的串列埠,如圖所示。

Protocol: Hostnam
Port:
Show

附註:切記指向第一個串列埠的埠號以訪問控制檯。

驗證

您可以使用**logging console** config命令在C9800-CL上啟用控制檯日誌記錄,並使用生成系統日誌的WLC的任何功能來測試控制檯日誌記錄。但是,控制檯日誌記錄最有益的兩種使用情形是

- •在獨立模式下捕獲9800-CL的啟動日誌
- 從高可用性(HA)的9800CL的有狀態切換(SSO)事件中捕獲日誌。

本示例是在連線到串列控制檯的終端模擬器上看到的9800-CL啟動日誌

*Sep 29 15:31:05.460: %IOSXEB00T-4-FACTORY_RESET: (rp/0): This was not selected via cli. Rebooting like normal

GNU GRUB version 0.97 (638K lower / 3143488K upper memory)

With C = output Made
Use the " and v keys to select which entry is highlighted. Press entry to host the selected 05. or 'c' for a commond-line.
The highlighted entry will be bosted automatically in 1 seconds. Booting 'McC, packages.comf'
root (hd0,0)
Filesystem type is ext2fs, partition type 0x83 kernel/packages.comf vr oots/dev/na mac_itopose4 NABDMARE-virtual quiet cons
oles SR_B00T-bootflashipackages.conf Calculation SR-ab-babdom
SR4-1 hash:
expected 7969331130/effe6s:1992.dei/2004975320416c
package neaser rev 3 structure detected Galculating SHL-hashdone
548-1 hash: calculated 79533c46:86a69c2b:e864d53a:93165327:e5297bbc
expected 79533c46/i8da9/C2bie84d953a:93/165327:d5297b8c Packaen tvene 19x731. (flassi He #
Linner-bzTmage, setup-Bc3Ce8, siz-en-6652cc8
LEDER V MARTINE STATUE STATUE
NEXTRONG
+Sep 29 15:31:29.882: %105XEB00T-4-800T_SRC: (rp/8): Checking for grub upgrade
*Sep 29 15:31:30.112: %105XEB00T-4-B00T_SRC: (rp/0): Checking grub versions 1.1 vs 1.1
<pre>*Sep 29 15:31:30.118: %105XEB00T~4-B00T_SRC: (rp/0): Bootloader upgrade not necessary.</pre>
Maling for remote chassis to join
Chassis number is 1
All Chassis in the stack have been discovered. Accelerating discovery Sep 29 15:31:45:11:49W-3-MPC_EMPT_EXEC_TLEI M9/8 upy: Empty executable used for process bt_logger
5ep 23 15:31:55.041: 4MWAN-3-MROC_UMPTY_EXEC_FILE: MA/#: pay: Empty executable used for process bt_logger 5ep 23 15:31:25:041: 4MWAN-3-MROC_UMPTY_EXEC_FILE: MA/#: pay: Empty executable used for process bt_logger
Sep 29 15:32:44.245; MMAN-3-MOC_DMYT_EDEC_FILE: MA/s: psy: Empty executable used for process bi_logger 50 29 15:32:741; MMAN-3-MOC_DMYT_EDEC_FILE: MA/s: psy: Empty executable used for process bi_logger
Sep 29 15:32:11.527: NMMN-3-ROC_DMPTY_DEEC_FILE: R0/0: pxp: Empty executable used for process bt_logger
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Software clause at DFAMS sec. 252.227-7013.
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San Jose, California 95134-1786
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Compled Sat 07-Hov-20 22:40 by mcpre
This software version supports only Smart Licensing as the software licensing mechanism.

疑難排解

問題:在終端模擬器上,輸出與控制檯不匹配。

```
Jsername: imancera
Password:
grep: /usr/binos/conf/packages.conf: No such file or directory
Patch present –
[?1limancera–b(diag)#
```

解決方案:檢查終端模擬器是否指向對映到控制檯的埠。在這種情況下,使用了對映到AUX埠的埠。

問題:啟動日誌不完整,並且只顯示日誌的一部分。

%IOSXEB00T-4-PART_VERIFY: (local/local): Verifying partition table for device /dev/bootflash... %IOSXEB00T-4-PART_VERIFY: (local/local): Selected MBR v1 partition layout. *Sep 29 15:31:29.882: %IOSXEB00T-4-B00T_SRC: (rp/0): Checking for grub upgrade *Sep 29 15:31:30.112: %IOSXEB00T-4-B00T_SRC: (rp/0): Checking grub versions 1.1 vs 1.1 *Sep 29 15:31:30.118: %IOSXEB00T-4-B00T_SRC: (rp/0): Bootloader upgrade not necessary. Waiting for remote chassis to join Chassis number is 1 All chassis in the stack have been discovered. Accelerating discovery Sep 29 15:31:50.991: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:31:52.074: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:20.7764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:07.764: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:11.527: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:11.527: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:11.527: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29

解決方案:輸入platform console serial命令,如步驟2所示。