Configurar a porta de console no C9800-CL hospedado no ESXi

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Introduction

Este documento descreve como configurar uma porta de console em um Catalyst 9800 Wireless LAN Controller (WLC) hospedado no ESXi.

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Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- WLC Catalyst 9800
- 9800 conhecimento básico de configuração.

Componentes Utilizados

- C9800-CL no Cisco IOS®-XE versão 17.3.2a.
- Ambiente virtual e hipervisores.
- Versão do vSphere Client 7.0.0.10100.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Configurar

Configurar as portas 9800-CL

Etapa 1. Depois que a máquina virtual (VM) tiver sido implantada no ESXi, desligue a VM. Navegue até a VM, clique com o botão direito do mouse para obter o menu, clique na seta para Energia e selecione **Desligar**.

vm vSphere Client	Menu 🗸 🛛 🔍 S	Search in all environments			
Image: Constraint of the second s	Scisco.com Actions - C9800-CL-imancera-b Power Guest OS Snapshots Open Remote Console Migrate Clone Fault Tolerance VM Policies Template	C9800-CL-im Summary Monitor Nonitor Power On Power Off Suspend Reset Shut Down Guest OS Action Guest OS LAUNCH REMOTE CON LAUNCH WEB CONS	Ancera-b Configure	Permissions Permissions Power Status Guest OS Encryption VMware Tools DNS Name (1) IP Addresses	ACTION: Datastores Netw Datastores Netw Powered On Other 3.x or Not encrypted Running, version:2' imancera-b
😰 VMware vCen 🔐 w10	Compatibility Export System Logs Edit Settings Move to folder Rename Edit Notes	VM Hardware CPU Memory	10 CPU(s), 2 32 GB, 0 GB	294 MHz used 8 memory active	

Etapa 2. Quando a VM for desligada, navegue para a VM novamente e clique com o botão direito do mouse. No menu que aparece, selecione **Editar configurações**.

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				Power					0					
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	10.88.1	73.59		Fault Tolerance								Storage	Fr	ee: 7.98 TB
	6 May-W	73.61 Jireles		VM Policies								Used: 3.66 TB	Capacit	y: 11.64 TB
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	B 9800-			Event Custom Lana		Max-Wireless								
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	🚯 C9800	-CL-in		Rename										
	· 년종 (19800	-CL-in		Edit Notes		tas								
	10 v 10			Tags & Custom Attributes										
				Add Dermission		Value								
													No items to dis	play
				Alarms					Assign F					
Recent	Tasks	Alarm												

Etapa 3. Na página **Editar configurações**, escolha a guia Hardware virtual e clique em **Adicionar novo dispositivo**

vm		Edit Settings C9800-CL-imanco	era-b			
		Virtual Hardware VM Options				
~ 🖪 vo				ADD NEW DEVICE		
		> CPU		Ð		
		. Namani			d: 13.94 GHz	
		> memory			nory	
		> Hard disk 1			± 76.2 G8	Capacity: 462.86 GB
		> SCSI controller 0	VMware Paravirtual		age	
		> Network adapter 1	VLAN 2670 🗸	Connected	d: 3.66 TB	
		> Network adapter 2	Trunk V	Connected		
		> Network adapter 3		Connected		
		> CD/DVD drive 1	Datastore ISO File V	Connected		
		> CD/DVD drive 2	Datastore ISO File	Connected		
		> Video card				
		VMCI device				
			Han Mahuada 💦 🗖 Canaa			
				CANCEL		

Etapa 4. No menu Adicionar novo dispositivo, selecione Porta serial

				×
vm vSphere Client Me	Edit Settings C9800-CL	-imancera-b		
	Virtual Hardware VM Options			
			ADD NEW DEVICE	
✓	> CPU		Disks, Drives and S	
	> Memory	32 <u> </u>	Hard Disk Existing Hard	
	> Hard disk 1		RDM Disk	d: 13,73 GHz Capacity: 207.87 GHz nory Free: 386.66 GB
	> SCSI controller 0	VMware Paravirtual	Host USB De CD/DVD Drive	d: 76.2 GB Capacity: 462.86 GB
	> Network adapter 1	VLAN 2670 🗸	Controllers NVMe Contr	1990 Free: 7.98 TB
> 🕞 Mex-Wireless > 🕞 PODS	> Network adapter 2		SATA Contro	
	> Network adapter 3		USB Controll	
			Other Devices PCI Device	
	> CD/DVD drive 1	Datastore ISO File ~	Serial Port	
	> CD/DVD drive 2	Datastore ISO File ~	Network Ada	
	> Video card			
	VMCI device			
	Paristana d	Has Mahuaris 🛼 🗖 Canaca	· · · · · · · · ·	
			CANCEL	

Note: Nas VMs, a porta serial configurada primeiro funciona como uma porta de console e a segunda porta serial funciona como uma porta auxiliar. Você deve ter ambos para usar a porta de console.

Etapa 5. Configurar a primeira porta serial

Etapa 5.1 Na lista suspensa **Porta serial**, escolha **Usar rede** e marque a caixa de seleção **Conectado**.

Etapa 5.2 Para Status, marque a caixa de seleção Connect At power On (Conectar ao ligar).

Etapa 5.3 Na lista suspensa Direção, escolha Servidor.

Etapa 5.4 No campo Port URI, digite telnet://<endereço ip do host no qual a VM está>:1892.

Etapa 6. Repita as etapas de 1 a 5.4 para adicionar uma segunda porta serial para operar como a porta auxiliar. Certifique-se de usar um número de porta diferente para telnet na Etapa 5.4 para a porta auxiliar.

		Bienvenido al cluster de virtualización de	e Mex-Wireless. Por favor asegurate de leer y seguir las	s reglas.			×
		Edit Settings C9800-CL-imancera-A	λ.				
	🔂 C9800-(> CD/DVD drive 2	Datastore ISO File 🗸	Connected			
		> Video card					
		VMCI device					
		✓ Serial port 1	Use Network 🗸 🗹 Connected				
		Status	Connect At Power On				
			Server v				
	The second secon		teinet://10.88.173.61:1894				
			Use Virtual Serial Port Concentrator				
		I/O Mode	Vield CPU on poll				
	LAUNCH REM	Serial port 2	Use Network 🗸 🗹 Connected				
	CAUNCH W	Status	Connect At Power On				
			Server ~				
	VM Hardwa		teinet://10.88.173.61:1893				
			Use Virtual Serial Port Concentrator				
			Vield CPU on poll				
		> Other	Additional Hardware				
	Network adapt CD/DVD drive 1			CANCEL			
			48.1 _{GB used}				
Recent Tasks Alarms							*

Note: No caso de uma implantação de HA, você pode usar esses números de portas para a linha serial - 1892 (Console VM1), 1891 (AUX VM1), 1894 (Console VM2) e 1893 (AUX VM2).

Configure a VM para fornecer a saída do console

Depois de configurar a porta serial na VM, você precisa ligar a VM e acessar a VM pelo console da Web ou pelo console remoto do vSphere. Quando a VM for inicializada corretamente, você precisará inserir o comando **platform console serial** e, em seguida, fazer uma **gravação de memória**, conforme visto na imagem.

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)#

Acesse a VM pelo Telnet

Abra o emulador de terminal de sua preferência e aponte para a porta serial que usa Telnet no emulador de terminal como visto na imagem.

Note: Lembre-se de apontar para o número da porta da primeira porta serial para acessar o console.

Verificar

Você pode ativar o log do console no C9800-CL usando o comando **logging console** config e usar qualquer recurso ou funcionalidade do WLC que gera syslogs para testar o log do console. No entanto, os dois casos de uso em que o registro do console é mais benéfico são

- para capturar o registro de inicialização de 9800-CL no modo autônomo
- capture os registros do evento de Stateful Switchover (SSO) para um 9800CL emparelhado para alta disponibilidade (HA).

Neste exemplo está o registro de inicialização de 9800-CL como visto no emulador de terminal conectado ao console serial

#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)

VMIC - packages_conf
VRLC - GOLEN DAGE
Use the ^ and v keys to select which entry is highlighted.
Press enter to boot the selected OS, or 'c' for a command-line.
The highlighted entry will be booted automatically in 1 seconds. Booting 'VMLC - packages.conf'
ot (%d),0)
Arespicen type is exists, partition type MAB Treat/packages.com/rw rosty-ked/ram max_loop=64 HARDWARE=virtual quiet cons
de sr.goulipootitaanigackages.com Uculating SM-A hashdome
M-1 hash: calculated 7b963311138cff8e6;ff99c2de:2db6489b;3929sf8c
expected 70405311138cff86iff99c2dei2db6409bi3923baf8c ckage header rev 3 structure detected
lculating SMA-1 hashdone A-1 hash
calculated 75333-64:86496/2bi:e8646533:9765327:65297b6c expected 75333-64:86496/2bi:e8646533:9765327:65297b6c
ckage type:8x7531, flags:0#0
[isord @ #x7d9b1080, #x263ecba bytes]
IOSXEB00T-4-PART_VERIFY: (local/local): Verifying partition table for device /dev/bootflash OSXEB00T-4-PART_VERIFY: (local/local): Selected MBR v1 partition layout.
iep 29 15:31:29.882: %105XEB00T-4-B00T_SRC: (rp/0): Checking for grub upgrade
iep 29 15:31:30.112: %105XE800T-4-800T_SRC: (rp/0): Checking grub versions 1.1 vs 1.1
iep 29 15:31:38.118: %105XUB00T-4-B00T_SRC: (rp/0): Bootloader upgrade not necessary.
iiting for remote chassis to join
aasis muuder is 1
i chassis in the stack nave been discovered. Accelerating discovery pp 25 issile, 25 is MANN-3-MARC_DEVT_DEXEC/INE: NAVR: ppp lempt executable used for process bt_logger
p 29 JSIJIABUMI WWW-JHWG_DWY_LAKC_TILE: MAR: ppi Empty executable used for process bt_logger p2 JSIJIABUMI VANW-JHWG_DWY_LAKC_TILE: MAR: ppi Empty executable used for process bt_logger
p 29 ISI3164.426: 4MMH-3-MGC_DMTT_XXC_FILE: MAR: pp: impty executable used for process bt_logger p 29 ISI31264.44 MMH-3-MGC_DMTT_XXC_FILE: MAR: pp: impty executable used for process bt_logger
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c) of the Commercial Computer Software – Restricted phts clause at FAR sec. 52:227-19 and subparagraph
 (1) (ii) of the Rights in Technical Data and Computer flware clause at DFMAS sec. 252,227-2013.
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Troubleshoot

Problema: No emulador de terminal, a saída não corresponde ao console.

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

Solução: Verifique se o emulador de terminal está apontado para a porta mapeada para o console. Nesse caso, a porta mapeada para a porta AUX foi usada.

Problema: O registro de inicialização não está concluído e mostra apenas uma seção do registro.

%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 15:31:49.511: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger 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 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 15:32:04.245: %PMAN-3-PROC_EMPTY_EXEC_FILE: R0/0: pvp: Empty executable used for process bt_logger Sep 29 1

Solução: Digite o comando platform console serial, como visto na Etapa 2.