重置思科DNA中心的磁懸浮使用者密碼

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簡介

本文檔介紹如何解鎖和/或重置磁懸浮使用者的密碼。

背景資訊

在磁懸浮帳戶被鎖定的情況下,您無法登入以解鎖該帳戶。要解鎖和/或重置磁懸浮使用者的密碼 ,必須將映像裝載到Cisco IMC vKVM。這允許您訪問外殼並重置使用者和/或密碼。

必要條件

需求

- 您需要從<u>https://ubuntu.com/download/desktop</u>下載Ubuntu 16.04或更高版本的ISO映像。我 們建議使用18.04,因為它與Cisco Catalyst Center的版本相同。
- 將ISO下載到本地系統後,您需要將ISO安裝到思科整合管理控制器(CIMC) KVM。
- 將ISO安裝到KVM後,您需要從ISO啟動。
- 一旦您可以存取Ubuntu,請將根目錄和var目錄掛載到系統。
- 掛載根目錄和var目錄後,您可以解鎖和更改Maglev使用者帳戶。
- 最後,重新啟動裝置,確認可以使用磁懸浮登入,並使用配置嚮導重置密碼。

採用元件

此操作在Ubuntu 18.04映像上運行;不同的映像會產生不同的時間和結果。

在某些環境中,到達Ubuntu案頭最多需要2個小時。

此操作不嚴格限於Ubuntu案頭版本。只需要訪問外殼。任何提供Shell存取的Ubuntu影像都適用於 此作業。

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。



M註:您可以在DR環境中使用相同的程式。但是,請注意以下幾點:
在嘗試任何密碼復原/重設方法之前,請確定災難回覆處於暫停狀態
在1+1+1 DR部署中,當此過程完成時,相應的站點處於關閉狀態。
在3+3+3中,如果要更新所有三個節點上的密碼,請一次更新一個節點,以確保另外兩個節點可

用,以避免不必要的DR故障切換。

步驟1:從Live CD啟動

登入到Cisco IMC GUI, 選擇Launch KVM, 然後選擇Virtual Media > Activate Devices。

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然後,選擇Map CD/DVD。

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之後,選擇Browse,然後選擇已下載到本地系統的Ubuntu ISO映像。選擇Ubuntu映像之後,請選 擇Map Drive按鈕。

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然後使用Power > Reset System (warm boot)重新啟動裝置。

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在系統重啟之後,當Cisco徽標出現時按F6。



它可能看起來不起作用,因為它會進入一個看起來與這個類似的螢幕:

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		Shift	z x c v b n m , . /	alues

但是會出現第二個畫面,我們可以看到它正在進入開機功能表。如果我們忘記在第一個思科螢幕上 按F6,可在此處按鍵

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當啟動選單彈出時,請選擇顯示Cisco vKVM-Mapped vDVD1.24的選項。這會導致裝置從之前選擇 的對映Ubuntu映像啟動。

Please select boot device:



注意:螢幕截圖顯示了到達Ubuntu案頭所需的時間。

這是我們看到的第一個螢幕。看起來好像什麼都沒有發生但是等一下。在本實驗中,我們在此螢幕 上40秒



之後,螢幕完全變黑了大約30秒,然後我們看到Ubuntu載入螢幕。我們在此螢幕上停留的時間略多 於5分鐘,但時間可能因部署而異。



接下來,我們看到的螢幕可能看起來出現了問題,但這是正常現象。在本實驗中,此螢幕在繼續操 作之前保持了2分鐘

	cisco Ci	sco Integrated Management Controller	admin - DNA-POD5-CIMC.cisco.com 🔅	om 🌣
1	File View	Macros Tools Power Boot Device Virtual Media Help	A I S	00
Þ		<pre>[0K] Started Dispatcher daemon for Systemd-networkd. [FAILED] Failed to start Network Manager Noit Dhine. See 'systemctl status NetworkManager) Reached target Network is Online. Starting Tool to automatically collect and 1 Started crash report submission daemon. [0K] Started Tool to automatically collect and 1 Started Snap Daemon. [0K] Started Tool to automatically collect () Started Snap Daemon. Starting Molt until snapd is fully seeded 91 [**] (2 of 4) A start job is running for Hold until boot process finishes up (2min 35 7dev/sde: No medium found 7init: line 7: can't open /dev/sde: No medium found 7init: line 7:</pre>	<pre>^-wait-online.service' for details. [0K submit Kernel crash signatures [0K and submit kernel crash signatures. [0 tarting Holds Snappy doemon refresh [5s / no limit)/init: line 7: can't open a' requested by ':1.0' (uid=999 pid=2072 s.Doemon' ata' requested by ':1.0' (uid=999 pid=20 s.Metadata' etion 'G_UDEV_IS_DEVICE (device)' failed etion 'G_UDEV_IS_DEVICE (device)' failed etion 'G_UDEV_IS_DEVICE (device)' failed etion 'G_UDEV_IS_DEVICE (device)' failed</pre>	co IN
				alues

熒幕恢復至黑色熒幕約3分鐘,上方的熒幕再次閃爍數分鐘,然後恢復至黑色熒幕再持續兩分鐘。

	cisc	<mark>l:</mark> Ci	sco In	tegra	ited M	lanageme	ent Contro	ller		а	dmin - DNA-POD5-CI	MC.cisco.com	\$	om 4	¢
1	File	View	Macros	Tools	Power	Boot Device	Virtual Media	Help				A 1	S	0	6
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•									O <u></u> o					2	× ×
														alues	

接著,我們將會看到選取即時工作階段使用者的選項。如果系統顯示「嘗試Ubuntu案頭」選項,請 選擇該選項。歡迎此使用者繼續。



選取使用者之後,熒幕會再次變黑,然後才會顯示Ubuntu案頭。

提示:在某些環境中,達到此點需要長達2小時的時間

步驟2:裝載所需分割槽

一旦您訪問了Ubuntu案頭GUI環境,您需要打開終端應用程式並執行以下步驟

- 建立暫存掛載點。
- 將根和var分割槽掛載到系統。
- 將虛擬檔案系統裝載到臨時裝載點。

首先使用命令建立臨時裝載點:

<#root>

sudo mkdir /altsys

接下來,我們需要找到要裝載的根分割槽和var分割槽。我們可以使用lsblk -fm命令查詢「/」(根)和「/var」的要裝載的分割槽。記下我們為下一步中的裝載命令確定的分割槽

				ubu	untu@ubunt	tu: ~					
File E	dit Vie	w Sear	ch Terminal	Help							
ubuntu ubuntu	ignpnu.	tu:~\$: tu:~\$ 1	sudo mkdir lsblk -fm	/altsys							
NAME F	STYPE	LABEL	UUID		MO	UNTPOINT	SIZE	OWNER	GROUP	MODE	
s	squash				/r	ofs	2.2G	root	disk	brw-rw	
soa sda1	L						440.10	root	disk	DFW-FW	
sda2	2						1M	root	disk	brw-rw	
e	ext4	insta	111	and drawf-	0-765		47.70		بالم وأو	have not	
_sda3	3		18090/92-	aaa0-4304-aatc-0581te	007072		47.76	root	disk	Drw-rw	
sdad	/fat		FAC1-6A0C				239M	root	disk	brw-rw	
e	ext4	data	933db1a2-	b943-4b98-9221-765a40	28b7bf		398.2G	root	disk	brw-rw	
sab sdb1	L						1.81	root	disk	Drw-rw	
e edb2	ext4		b252b853-	9a4e-486e-99bf-8c62d4	82592f		681.8G	root	disk	brw-rw	
6	ext4		05cd12d3-	df05-4e0a-ae05-f25103	be7788		937.4G	root	disk	brw-rw	
-sdb3	3 Ext4		e38af843-	8ec9-45b1-9c54-e54f91	e60cae		168G	root	disk	brw-rw	
sdc							5.2T	root	disk	brw-rw	
e	ext4		b50f383f-	a665-4a7c-8b4f-1d85f8	7dbb94		5.2T	root	disk	brw-rw	
sdd ∟sdd1	L						59.5G	root	disk	brw-rw	
e	exfat	Ubunt	9C33-6BBD	ITS and64	/=	edia/ubu	59.5G	root	disk	brw-rw	
510 1	120300	obunci	2021-09-1	5-20-41-59-00	/c	drom	2.3G	root	cdrom	brw-rw	
sr1							1024M	root	cdrom	brw-rw	
sr2							1024M	root	cdrom	brw-rw	
ubuntu	aubun	tu:-S					1024M	1001	COTOM	DIW-IW	

對於/var,請查詢9.5G或168G分割槽。在此例中我們可以看到,這是sdb3

File Edit View Search Terminal Help

ubuntu@ubun1	tu:-S s	udo mkdir /altsys					
ubuntu@ubunt	tu:-5 1	sblk -fm					
NAME FSTYPE	LABEL	UUID	MOUNTPOINT	SIZE	OWNER	GROUP	MODE
loop0							
squash			/rofs	2.2G	root	disk	brw-rw
sda				446.1G	root	disk	brw-rw
-sda1							
				1M	root	disk	brw-rw
-sda2							
ext4	instal	11					
		186ab795-aaa0-4364-aafc-d581fe0c76f2		47.7G	root	disk	brw-rw
-sda3							
vfat		FAC1-6A0C		239M	root	disk	brw-rw
-sda4							
ext4	data	933db1a2-b943-4b98-9221-765a4028b7bf		398.2G	root	disk	brw-rw
şdb				1.8T	root	disk	brw-rw
-sdb1							
ext4		b252b853-9a4e-486e-99bf-8c62d482592f		681.8G	root	disk	brw-rw
-sdb2							
ext4		05cd12d3-df05-4e0a-ae05-f25103be7788		937.4G	root	disk	brw-rw
🛏 sdb3 🔶							
ext4		e38af843-8ec9-45b1-9c54-e54f91e60cae		168G	root	disk	brw-rw
sdc				5.2T	root	disk	brw-rw
└─sdc1							
ext4		b50f383f-a665-4a7c-8b4f-1d85f87dbb94		5.2T	root	disk	brw-rw
sdd				59.5G	root	disk	brw-rw
-sdd1							
exfat		9C33-6BBD	/media/ubu	59.5G	root	disk	brw-rw
sr0 150966	Ubuntu	18.04.6 LTS amd64					
		2021-09-15-20-41-59-00	/cdrom	2.3G	root	cdrom	brw-rw
sri				1024M	root	carom	Drw-rw
srz				1024M	root	cdrom	Drw-rw
SF3				1024M	root	cdrom	Drw-rw
THE PARTY OF THE P							

對於/(根),請查詢28.66G 或47.7G分割槽。在本示例中,它是sda2

00

ubuntu@ubuntu: ~

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File Edit View Search Terminal Help

ubuntu@ubu	ntu:-S	sudo mkdir /altsys lsblk -fm					
NAME FSTYP	E LABEL	UUID	MOUNTPOINT	SIZE	OWNER	GROUP	MODE
squas	h		/rofs	2.26	root	disk	brw-rw
sda				446.1G	root	disk	brw-rw
sda1							
				1M	root	disk	brw-rw
—sda2 ┥							
ext4	insta	111					
		186ab795-aaa0-4364-aafc-d581fe0c76f2		47.7G	root	disk	brw-rw
-sda3			-		_		
vfat		FAC1-6A0C		239M	root	disk	brw-rw
└─sda4							
ext4	data	933db1a2-b943-4b98-9221-765a4828b7bf		398.2G	root	disk	brw-rw
sdb				1.8T	root	disk	brw-rw
-sdb1							
ext4		b252b853-9a4e-486e-99bf-8c62d482592f		681.8G	root	disk	brw-rw
-sdb2							
ext4		05cd12d3-df05-4e0a-ae05-f25103be7788		937.4G	root	disk	brw-rw
Sdb3						di ala	have a second
ext4		e38af843-8ec9-45b1-9c54-e54f91e60cae		168G	root	disk	Drw-rw
sac				5.21	root	disk	Drw-rw
-SOCI		brafaaaf acct 4a7a abaf adarfa7dbbaa		5 37	reet.	d4 a k	here en
eXt4		05013831-8005-4870-8041-108518700094		50.50	root	disk	beween-
Ledda				39.30	1000	ULSK	DIWIIW
exfat		9033-6880	/media/ubu	59.50	reat	disk	hew reasons
erA iso96	6 Ubunt	18 64 6 LTS amd64	/neuca/ubu	33.30	1001	ULSK	DINITI
	obolic	2021-09-15-20-41-59-00	Icdrom	2.36	root	cdrom	brw-rw
sr1			/ 201 011	1024M	root	cdrom	brw-rw
sr2				1024M	root	cdrom	brw-rw
sr3				1024M	root	cdrom	brw-rw
ubuntu@ubu	ntu:-S						

一旦您確定了var和根分割槽掛載它們之後:

<#root>

sudo mount /dev/sda2 /altsys

use the disk with up to 5 or 6 partitions

sudo mount /dev/sdb3 /altsys/var

use the disk with up to 5 or 6 partitions

掛載root和var之後,請掛載psuedo檔案系統:

<#root>

sudo mount --bind /proc /altsys/proc sudo mount --bind /dev /altsys/dev sudo mount --bind /sys /altsys/sys 00

在更改密碼或解鎖磁懸浮帳戶之前的最後一步是更改為臨時安裝環境:

<#root>

sudo chroot /altsys

使用案例1:解鎖磁懸浮帳戶

第1步:驗證磁懸浮使用者已解鎖

<#root>

grep maglev /etc/shadow

<#root>

maglev:

!

\$6\$6jvRGoDihpcsr8X1\$RUFs.Lb.2AbbgvODfJsw4b2EnpSwiNU1wJ6NQIjEnvOtT5Svz4ePHZa4f0eUvLH17VAFca46f2nHxqMWORY

檢查密碼雜湊前面是否有驚歎號。如果存在,則表示該帳戶已鎖定。鍵入命令以解鎖使用者:

使用以下命令解鎖磁懸浮使用者:

<#root>

usermod -U maglev

步驟2:重置失敗計數

如果使用者在/etc/shadow檔案的雜湊前面沒有提升標籤,則表示已超過登入失敗限制。請使用這些 步驟重設失敗的登入嘗試。

查詢磁懸浮使用者的失敗登入嘗試:

<#root>

\$

sudo pam_tally2 -u maglev

LoginFailures Latest failureFrommaglev45411/25/2020:24:05x.x.x.x

如圖所示,登入嘗試次數大於預設的6次。這拒絕了該使用者登入直至故障計數下降到小於六(6)的 能力。您可以使用以下命令重置登入失敗計數:

<#root>

sudo pam_tally2 -r -u maglev

您可以確認計數器已重設:

<#root>

sudo pam_tally2 -u maglev

Login Failures Latest failure From maglev 0

使用案例2:重設磁懸浮使用者密碼

步驟1:重置磁懸浮使用者密碼

<#root>

#

passwd maglev

Enter new UNIX password: #Enter in the desired password Retype new UNIX password: #Re-enter the same password previously applied Password has been already used. passwd: password updated successfully #Indicates that the password was successfully changed

第2步:正常重啟到Cisco DNA Center環境

在KVM窗口中按一下Power,然後按一下Reset System (warm boot)。這會導致系統重新啟動並使用RAID控制器啟動,以啟動Cisco DNA Center軟體。

	File	View	Macros	Tools	Power	Boot Device	Virtual Media	Help
ſ					Powe Powe	r On System r Off System		Apr 5 02:27
					Reset System (warm boot)			
			Power Cycle System (cold boot)					

第3步:從Cisco DNA Center CLI更新磁懸浮使用者密碼

一旦Cisco DNA中心軟體啟動,並且您可以訪問CLI,您就需要使用sudo maglev-config update命令 更改磁懸浮密碼。為確保變更在整個系統中生效,必須執行此步驟。

啟動配置嚮導後,您需要完全透過嚮導導航到螢幕,以便我們在步驟6中設定磁懸浮密碼。



為欄位Linux Password和Re-enter Linux Password設定口令後,請選擇next並完成嚮導。嚮導完成 配置推送後,密碼已成功更改。您可以建立新的SSH會話,或在CLI中輸入命令sudo -i以測試口令 是否已更改。

逐步視訊指南

請使用下列連結存取針對此工作流程建立的逐步視訊。

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)。