重置Cisco DNA Center的Maglev用户密码

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简介

本文档介绍如何解锁和/或重置Maglev用户的密码。

背景信息

在磁悬浮账户被锁定的情况下,您无法登录以解锁该账户。要解锁和/或重置Maglev用户的密码,您 必须将映像安装到思科IMC vKVM。这允许您访问外壳并重置用户和/或密码。

先决条件

要求

- 您需要从<u>https://ubuntu.com/download/desktop</u>下载Ubuntu 16.04或更新版本的ISO映像。我 们建议使用18.04,因为它与Cisco Catalyst Center的版本相同。
- 将ISO下载到本地系统后,您需要将ISO安装到思科集成管理控制器(CIMC) KVM中。
- 将ISO安装到KVM后,您需要从ISO启动。
- 一旦您可以访问Ubuntu,请将根目录和var目录装载到系统。
- 在安装了根目录和var目录后,您可以解锁并更改Maglev用户帐户。
- 最后,重新启动设备,确认可以使用磁悬浮登录,并使用配置向导重置密码。

使用的组件

此操作在Ubuntu 18.04映像上运行;不同的映像会生成不同的时间和结果。

在某些环境中,到达Ubuntu桌面最多需要2小时。

此操作不严格限于Ubuntu桌面版本。只需要访问外壳。任何提供外壳访问的Ubuntu映像都可用于此 操作。

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。



备注:您可以在DR环境中使用相同的过程。但是,请注意以下几点:
在尝试任何密码恢复/重置方法之前,请确保灾难恢复处于"暂停"状态
在1+1+1 DR部署中,此过程完成时,对应的站点处于关闭状态。
在3+3+3中,如果要在全部三个节点上更新密码,请一次更新一个节点,以确保另外两个节点可

用,以避免不必要的DR故障切换。

第1步:从Live CD启动

登录到Cisco IMC GUI,选择Launch KVM,然后选择Virtual Media > Activate Devices。

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然后,选择Map CD/DVD。

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之后,选择Browse,然后选择已下载到本地系统的Ubuntu ISO映像。选择Ubuntu映像之后,请选 择Map Drive按钮。

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Virtual Media – CD/DVD X Image File : ubuntu-18.04.6-desktop-amd64.iso Browse Read Only Map Drive Cancel

然后使用Power > Reset System (warm boot)重启设备。

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当系统重新启动后,当显示Cisco徽标时,请按F6。



它可能看起来不起作用,因为它会进入一个与这个类似的屏幕:

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但是会出现第二个屏幕,我们可以看到它正在进入引导菜单。如果我们忘记在第一个思科屏幕上按 F6,可在此处按

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弹出引导菜单时,请选择显示Cisco vKVM映射的vDVD1.24的选项。这会导致设备从之前选择的映 射Ubuntu映像启动。

Please select boot device:



注意:屏幕截图显示了到达Ubuntu桌面所需的时间。

这是我们看到的第一个屏幕。看起来好像什么都没有发生但只是等待在本实验中,我们将在此屏幕 上显示40秒

之后,屏幕完全变黑约30秒,然后出现Ubuntu加载屏幕。我们在此屏幕前停留的时间为5分钟多一 点,但时间可能因部署而异。

接下来,我们看到一个屏幕,它可能看上去出现了问题,但这是预期结果。在实验中,此屏幕保持 运行2分钟,然后继续

cisco Integrated Management Controller	admin - DNA-POD5-CIMC.cisco.com	om 🍄
File View Macros Tools Power Boot Device Virtual Media Help		00
<pre>[00] Started Dispatcher daemon for systemd-networkd. [FAILED] Failed to start Network Manager Wait Online.</pre>	<pre>conline.service' for details. [0K (kernel crash signatures [0K ubmit kernel crash signatures. [0 (kHoids Snappy daemon refresh [0 (kHoids Snappy daemon refresh [0 limit)/init: line 7: can't open uested by ':1.0' (uid=999 pid=2072 pi' guested by ':1.0' (uid=999 pid=2072 pi' guested by ':1.0' (uid=999 pid=20 fata' (G_UDEV_IS_DEVICE (device)' failed (G_UDEV_IS_DEVICE (device)' failed</pre>	co IV

屏幕回到黑屏约3分钟,上方的屏幕再次闪烁几分钟,然后又回到黑屏两分钟。

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接下来,我们提供了选择Live session用户的选项。如果系统显示"尝试Ubuntu桌面"选项,请选择该 选项。欢迎此用户继续。

选择用户后,屏幕将再次变黑,然后才会显示Ubuntu桌面。

提醒:在某些环境中,可能需要长达2小时才能达到此目的

第2步:装载所需分区

访问Ubuntu桌面GUI环境后,您需要打开终端应用程序并执行以下步骤

- 创建临时装入点。
- 将根分区和var分区装载到系统。
- 将伪文件系统装载到临时装载点。

首先使用命令创建临时装入点:

<#root>

sudo mkdir /altsys

接下来,我们需要找到要装载的根分区和var分区。我们可以使用Isblk -fm命令查找"/"(根)和 "/var"的要装载的分区。记下我们在下一步中为mount命令标识的分区

	-				ubuntu@ub	untu: ~					
File Edit	t Vie	w Sear	ch Terminal	Help							
ubuntu@	ubunt	tu:~\$:	sudo mkdir	/altsys							
ubuntu@	ubunt	tu:-\$ 1	lsblk -fm								
NAME FS	TYPE	LABEL	UUID			MOUNTPOINT	SIZE	OWNER	GROUP	MODE	
coope	uash					Irofs	2.20	root	disk	how-ow	
sda	udan					/1013	446.16	root	disk	brw-rw	
-sda1											
							1M	root	disk	brw-rw	
-sda2											
ex	t4	instal	111							A contract of the second	
e da a			180a0795-0	aaa0-4364-aarc-	0581Te0C76T2		47.7G	root	disk	Drw-rw	
5003	at		FAC1-6ABC				2394	root	disk	hrw-rw	
Lsda4			Their onde				2350	1000	0.34	014-14	
ex	t4	data	933db1a2-	b943-4b98-9221-	765a4028b7bf		398.2G	root	disk	brw-rw	
şdb							1.8T	root	disk	brw-rw	
-sdb1											
ex	t4		b252b853-	9a4e-486e-99bf-	8c62d482592f		681.8G	root	disk	brw-rw	
sdbz	F .4		05edtada.	df05 . 4000 . 2005 .	F35103ba7700		037 46	reat	diale	here en	
_edb3	64		0201203-0	0105-4608-8605-	12310306//88		937.40	root	arsk	DIM-IM	
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sdc							5.2T	root	disk	brw-rw	
└_sdc1											
ex	t4		b50f383f-	a665-4a7c-8b4f-	1d85f87dbb94		5.2T	root	disk	brw-rw	
sdd							59.5G	root	disk	brw-rw	
-sdd1	Ent		0022-6880			/modia /ubu	50.50	reat	diek	here exercises	
sra is	0966	Ubunti	18.04.6	TS amd64		medicarubu	39.30	1001	ULSK	DIW-IW	
		obolite.	2021-09-1	5-20-41-59-00		/cdrom	2.3G	root	cdrom	brw-rw	
sr1							1024M	root	cdrom	brw-rw	
sr2							1024M	root	cdrom	brw-rw	
sr3							1024M	root	cdrom	brw-rw	
ubuntu@	ubunt	tu:-S									

对于/var,请查找9.5G或168G分区。在本例中我们可以看到,它是sdb3

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ubuntu@ubun ubuntu@ubun	tu:-\$ s tu:-\$ 1	udo mkdir /altsys sblk -fm					
NAME ESTYPE	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
srð iso966	Ubuntu	18.04.6 LTS amd64					
		2021-09-15-20-41-59-00	/cdrom	2.3G	root	cdrom	brw-rw
sr1				1024M	root	cdrom	brw-rw
sr2				1024M	root	cdrom	brw-rw
sr3				1024M	root	cdrom	brw-rw
ubun tugubun	PH 1 - S						

对于/ (root),请查找28.66G 或47.7G分区。在本例中为sda2

00

ubuntu@ubuntu: ~

ubuntu@ubuntu: ~

File Edit View Search Terminal Help

ubuntu@ubu ubuntu@ubu	ntu:-\$	sudo mkdir /altsys lsblk -fm					
NAME FSTYP	E LABEL	UUID	MOUNTPOINT	SIZE	OWNER	GROUP	MODE
squas	h		/rofs	2.2G	root	disk	brw-rw
sda				446.1G	root	disk	brw-rw
-sda1							
-rda2 -				1M	root	disk	brw-rw
SUd2	insta	114					
ext4	uista	186ab795-aaa0-4364-aafc-d581fe0c76f2	[47.7G	root	disk	brw-rw
-sda3			L				
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				5.21	root	disk	brw-rw
-sdc1		brokensk som som obsk sjorderikter				44.41	h
ext4		D50T383T-8005-48/C-8D4T-1085T8/0DD94		5.21	root	disk	Drw-rw
soo Loodda				59.50	root	disk	Drw-rw
-5001		0(22.6980	Inodia Jubu	50.50	reat	diek	here exercises
ern isono	6 Ubunt	12 64 6 LTS amd64	medicarubu	29.20	root	ULSK	DIM-IM
510 (5090)	o obuiiti	2821-89-15-28-41-59-88	Indrom	2 30	reat	cdcom	hewsensor
set.		2021-09-13-20-41-39-00	/cur on	18244	root	cdrom	brw-rw
512				18244	root	cdrom	brw-rw
513				10244	root	cdrom	brw-rw
ubuntu@ubu	stur-s 1			1011	1000	Conon	

一旦确定了var和根分区装载它们:

<#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

装载root和var后,装载psuedo文件系统:

<#root>

sudo mount --bind /proc /altsys/proc sudo mount --bind /dev /altsys/dev sudo mount --bind /sys /altsys/sys 更改密码或解锁磁悬浮账户之前的最后一步是更改为临时安装环境:

<#root>

sudo chroot /altsys

使用案例1:解锁磁悬浮帐户

第1步:验证磁悬浮用户已解锁

<#root>

grep maglev /etc/shadow

<#root>

maglev:

!

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

检查密码哈希前面是否有感叹号。如果存在,则表示帐户已锁定。键入以下命令以解锁用户:

使用以下命令解锁磁悬浮用户:

<#root>

usermod -U maglev

第2步:重置失败计数

如果用户在/etc/shadow文件中的哈希值前面没有升级标记,则表明已超过登录失败限制。请使用以 下步骤重置失败的登录尝试。

查找磁悬浮用户的失败登录尝试:

<#root>

\$

sudo pam_tally2 -u maglev

LoginFailuresLatest failureFrommaglev45411/25/2020:24:05x.x.x.x

如图所示,登录尝试次数大于默认的6次。 这拒绝了该用户在故障计数降至低于六(6)时能够登录。 您可以使用以下命令重置登录失败计数:

<#root>

sudo pam_tally2 -r -u maglev

您可以确认计数器已重置:

<#root>

sudo pam_tally2 -u maglev

Login Failures Latest failure From maglev 0

使用案例2:重置磁悬浮用户密码

第1步:重置磁悬浮用户密码

<#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:正常重启到Cisco DNA Center环境

在KVM窗口中单击Power,然后单击Reset System (warm boot)。这会导致系统重新启动并使用 RAID控制器启动,以使Cisco DNA Center软件启动。

	File	View	Macros	Tools	Power	Boot Device	Virtual Media	Help
ľ					Powe Powe	er On System		Apr 5 02:27
					Reset System (warm boot)			
					Powe	er Cycle Syster	n (cold boot)	

一旦Cisco DNA中心软件启动,并且您有权访问CLI,您就需要使用sudo maglev-config update命令 更改磁悬浮密码。此步骤是确保更改在整个系统中生效。

启动配置向导后,您需要完全通过向导导航至屏幕,以便我们在步骤6中设置磁悬浮密码。

为字段Linux Password和Re-enter Linux Password设置口令后,选择next并完成向导。当向导完成 配置推送后,密码即成功更改。可以创建新的SSH会话,或在CLI中输入命令sudo -i测试口令是否 已更改。

分步视频指南

第3步:从Cisco DNA Center CLI更新磁悬浮用户密码

请使用以下链接访问为此工作流程创建的分步视频。

关于此翻译

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