RHEL installeren op een standalone UCS C240 M5-server

Inhoud

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Inleiding

Dit artikel beschrijft de procedure voor het installeren van RHEL op een lokale configuratie in een standalone UCSC C240 M5 server.

Gebruikte installatie

UCS C240-M5-L switch BAL-controller: Cisco 12G SAS HBA (UCSC-SAS-M5) 4K sector HDD's CIMC: 3.1(3a) IOS: RHEL 7.3

Voorwaarden

1. Download de RHEL ISO en de controllerstuurprogramma ISO:

RHEL: hel-server-7.3-x86_64-booster.iso

Stuurprogramma ISO: UCS-xxx-chauffeurs-linux.3.1.3.iso

(In de ISO-norm navigeren naar opslag -> LS -> UCSC-SAS-M5 -> RHEL-7.3 -> mpt3sas-23.00.00_el7.3-1.x86_64.iso.gz)

2. Als u het mpt3sas-23.00.00.00_el7.3-1.x86_64.iso.gz-bestand extraheert, krijgt u de chauffeur ISO -> mpt3sas-23.00.00_el7.3-1.x86_64.isu o

3. Op dezelfde manier kunt u, als u in uw server een UCSC-RAID-M5-controller gebruikt, naar het corresponderende stuurprogramma navigeren.

Procedure

Stap 1. Aangezien de server 4k sectorschijven heeft, doen we een UEFI-start. De Opstartvolgorde moet er als volgt uitzien:

→ → → → → → → → → → → → → → → → → → →		🐥 🔽 admir C240-WZP21510DCJ 🏟
A / Compute / BIOS *		Refresh Host Power Launch KVM Ping CIMC Reboot Locator LED 🚱 🚯
BIOS Remote Management Troubleshooting Power Policies	PID Catalog	
Enter BIOS Setup Clear BIOS CMOS Restore Manufacturing Custom Settings Rest	tore Defaults	
Configure BIOS Configure Root Order Configure BIOS Profile		
PIOS Properties		
Running Version C240M53.1.3d.0.0312180914 UEFI Secure Boot	▼ ▼ 295	
 ✓ Configured Boot Devices Basic ✓ Mathematical Advanced local/CD UEFI 	Actual Boot Devices UEFI: Bull-in EFI Shell (UEFI) UEFI: PXE IP4 Intel(R) Ethernet Controller X550 (NonPolicyTarget) UEFI: PXE IP4 Intel(R) Ethernet Controller X550 (NonPolicyTarget) UEFI: Cisco vKVM-Mapped vDVD1.24 (NonPolicyTarget)	

Stap 2. Open de KVM en stel de RHEL-ISO in kaart:

🗯 Cisco Virtual KVM Console File View Macros Tools	Power Boot Device	Virtual Media Help	🦈 🖧 🕐 🕐 🖵 🤀
•••		Create Image	
		Activate Virtual Devices	
		rhel-server-7.3-x86_64-boot.iso Mapped to CD/DVD Map Removable Disk Map Floppy	
		Please select boot device:	
		UEFI: Built-in EFI Shell UEFI: PXE IP4 Intel(R) Ethernet Controller UEFI: PXE IP4 Intel(R) Ethernet Controller UEFI: Cisco vKVM-Mapped vDVD1.24 Enter Setup	x550 x550
		↑ and ↓ to move selection ENTER to select boot device ESC to boot using defaults	

Stap 3. Druk op F6 en start het programma vanuit de UEFI: Cisco vKVM-ontkoppelde vDVD1.24

Stap 4. Selecteer de optie "Install Red Hat Enterprise Linux 7.3" en druk op "e"



Stap 5. U ziet het volgende scherm:



Stap 6. Voer de opdracht "linux dd" in en doe een Ctrl + x



Stap 7. De bovenstaande opdracht start de interactieve modus:



Stap 8. Koppel de RHEL-ISO los en geef de controleleider ISO-kaart:

Cisco Virtual KVM Console File View Macros Tools Power Boot Device	Virtual Media Help	🔀 🚰 🥥 🕙 🐑 💫 🖇 奈 🐠 38% 🗊 🛛 Mon 17 Dec 11:19
	Create Image	
	Activate Virtual Devices	
	mpt3sas-23.00.00.00_el7.3-1.x86_64.iso Mapped to CD/DVD	
	Map Removable Disk	
[18.162151] i8042: Can't read CTR whi	Map Floppy	
[OK] Started Show Plymouth Boot Scree	n.	
[OK] Reached target Paths.		
[OK] Reached target Basic System.		
[OK] Started Device-Mapper Multipath Starting Open-iSCSI	Device Controller.	
[OK] Started Open-iSCSI.		
Starting dracut initgueue hook		
[22.750254] nouveau 0000:60:00.0: priv	: HUB0: 10ecc0 ffffffff (1e40822c)	
[22.824043] nouveau 0000:60:00.0: DRM:	Pointer to TMDS table invalid	
[22.824060] nouveau 0000:60:00.0: DRM:	Pointer to flat panel table invalid	
[23.399872] nouveau 0000:61:00.0: priv	: HUBO: 10ecc0 ffffffff (1a40822c)	
[23.463012] nouveau 0000:61:00.0: DRM:	Pointer to TMDS table invalid	
[23.463029] nouveau 0000:61:00.0: DRM:	Pointer to flat panel table invalid	
L 24.037598 nouveau 0000:62:00.0: priv	: HUBO: 10ecc0 ffffffff (1d40822c)	
[24.101383] nouveau 0000;62:00.0; DRH:	Pointer to INUS table invalid	
[24.101400] nouveau 0000:52:00.0: DKn:	· HIRO: 100000 ffffffff (10409220)	
[24 240881] nouveau 0000.03.00.0. priv	Pointer to TMDS table invalid	
[24.740897] nouveau 0000:63:00.0: DBM:	Pointer to flat namel table invalid	
[OK] Created slice sustem-driverxzdu	pdates.slice.	
Starting Driver Update Disk UI o	n tty1	
[OK] Started Show Plymouth Boot Scree	n	
[OK] Reached target Paths.		
[OK] Reached target Basic System.		
[OK] Started Device-Mapper Multipath	Device Controller.	
Starting Open-iSCSI		
I OK J Started Open-iSCSI.		
Starting dracut initqueue hook	Natao alian	
Stanting Driven Undate Disk III o	paales.siice.	
DD: starting interactive mode		
(Page 1 of 1) Universidad device estantia	15	
Crage 1 of 1) priver alsk device selectio		
1) sda1 ufat ESXi	591C-E3E2	
2) sda2 ufat	4C6C-A2D4	
3) sda3 VMFS_vo1	5aa6e18d-304835ba-1711-4c776d996e2e	
4) sda5 vfat	4C6C-A2CA	
5) sda6 ufat	4C6C-A2CD	
6) sda8 ufat	4C6C-A2C8	
7) sr0 iso9660 RHEL-7.3\x20x86_64	2016-10-19-17-41-40-00	
<pre># to select, 'r'-refresh, or 'c'-continue</pre>	:	

Stap 9. Typ "r" om de disklijst van het stuurprogramma op te frissen:

CISCO VILLUAI NVMI CONSOLE PILE	view Macros To	UIS POWER BOOLDEVICE			
• • •				- KVM Console	
E OK] Started Open	-iSCSI.			
	Starting dra	cut initqueue hook			
[22	2.750254] nouvea	u 0000:60:00.0: priv:	HUBO: 10ecc0 fffffff	ff (1e40822c)	
[22	2.8240431 nouvea	u 0000:60:00.0: DRM:	Pointer to TMDS table	e invalid	
[22	2.824060] nouvea	u 0000:60:00.0: DRM:	Pointer to flat panel	l table invalid	
[23	3.3998721 nouvea	u 0000:61:00.0: priv:	HUBO: 10ecc0 ffffff	ff (1a40822c)	
[23	3.4630121 nouveau	u 0000:61:00.0: DRM:	Pointer to TMDS table	e invalid	
[23	3.4630291 nouvea	u 0000:61:00.0: DRM:	Pointer to flat panel	l table invalid	
[24	1.0375981 nouvea	u 0000:62:00.0: priv:	HUBO: 10ecc0 ffffff	ff (1d40822c)	
[24	1.101383] nouvea	u 0000:62:00.0: DRM:	Pointer to TMDS table	e invalid	
[24	1.101400] nouvea	u 0000:62:00.0: DRM:	Pointer to flat panel	l table invalid	
[24	1.676850] nouvea	u 0000:63:00.0: priv:	HUBO: 10ecc0 ffffff	ff (1c40822c)	
[24	1.740881] nouvea	u 0000:63:00.0: DRM:	Pointer to TMDS table	e invalid	
[24	1.7408971 nouvea	u 0000:63:00.0: DRM:	Pointer to flat panel	l table invalid	
C OK] Created slic	e system-driver∖x2duµ	dates.slice.		
	Starting Driv	ver Update Disk UI on	tty1		
E OK] Started Show	Plymouth Boot Screen	1.		
E OK] Reached targ	et Paths.			
E OK] Reached targ	et Basic System.			
E OK	1 Started Devi	ce-Mapper Multipath I	evice Controller.		
	Starting Ope	n-iSCSI			
E OK] Started Open	-iSCSI.			
	Starting dra	cut initqueue hook			
E OK] Created slic	e system-driver∖x2duµ	dates.slice.		
	Starting Driv	ver Update Disk UI or	1 tty1		
DD: st	tarting interact	ive mode			
(Page	1 of 1) Driver	disk device selection	1		
/1	DEVICE TYPE	LABEL	UUID		
1) so	la1 vfat	ESX i	591C-E3E2		
2) so	laZ ufat		4C6C-A2D4		
3) si	la3 VMFS_vo1		5aa6e18d-304835ba-17	711-4c776d996e2e	
4) so	la5 vfat		4C6C-A2CA		
5) so	la6 vfat		4C6C-A2CD		
6) so	la8 vfat		4C6C-A2C8		
7) si	r0 iso9660	RHEL-7.3\x20x86_64	2016-10-19-17-41-40-	-00	
# to s	select, 'r'-refr	esh, or 'c'-continue:	r		
(Page	1 of 1) Driver	disk device selection	1		
	DEVICE TYPE	LABEL	UUID		
1) so	la1 vfat	ESXi	591C-E3EZ		
2) so	taZ ufat		4C6C-A2D4		
3) so	ta3 VMFS_vol		5aabe18d-304835ba-17	11-4c776d996e2e	
4) so	tas ufat		4C6C-A2CA		
5) so	tab ufat		4C6C-A2CD		
6) so	tað ufat	05501	4C6C-A2C8		
7) si	r0 iso9660	СЛКОМ	2017-05-26-05-44-09-	-00	
# to :	select, 'r'-refr	esh, or 'c'-continue:			

Stap 10. U ziet nu de ISO-controlleraar van de controller. Type '7' en selecteer de volgende opties:

• • •		
	[23.463012] nouveau 0000:61:00.0: DRM:	Pointer to TMDS table invalid
	[23.463029] nouveau 0000:61:00.0: DRM:	Pointer to flat panel table invalid
	[24.037598] nouveau 0000:62:00.0: priv:	HUB0: 10ecc0 ffffffff (1d40822c)
	[24.101383] nouveau 0000:62:00.0: DRM:	Pointer to TMDS table invalid
	[24.101400] nouveau 0000:62:00.0: DRM:	Pointer to flat namel table invalid
	$\begin{bmatrix} 24 6768581 \text{ nouveau } 0000102100101 \text{ prive} \end{bmatrix}$	
	[24 240881] nouveau 0000103100.01 priot	Pointen to THDS table invalid
	[24 740897] nouveau 0000:63:00.0: DRM:	Pointer to flat namel table invalid
	[0V] Created alian austar driver v2dup	dates alies
	I UN I Created SIICE System-ariverx2aup	
	Starting priver update Disk UI on	tty1
	I UK J Started Show Plymouth Boot Screen	
	L UK J Reached target Paths.	
	[OK] Reached target Basic System.	
	[OK] Started Device-Mapper Multipath D Starting Open-iSCSI	evice Controller.
	[OK] Started Open-iSCSI.	
	Starting dracut initgueue book	
	[OV] Created slice sustem_driversy2dup	dates slice
	Stanting Driver Undate Dick III on	++++1
	DD: etanting interactive role	
	bb. Starting Interactive mode	
	(Page 1 of 1) Driver disk device selection	
	DFUICE TYPE LABEL	
	1) odat ufat FSVi	601 <i>b</i>
	2) ala viat Lovi	
	3) sda3 VHFS_VOI	5aabe18d-304835ba-1711-4c776d99be2e
	4) sda5 ufat	4C6C-A2CA
	5) sda6 vfat	4C6C-A2CD
	6) sda8 vfat	4C6C-A2C8
	7) sr0 iso9660 RHEL-7.3\x20x86_64	2016-10-19-17-41-40-00
	<pre># to select, 'r'-refresh, or 'c'-continue:</pre>	r
	(Page 1 of 1) Driver disk device selection	
	ZDEVICE TYPE LABEL	
	1)sda1 ufat ESXi	591C-E3E2
	2) sda2 ufat	4C6C-A2D4
	3) sda3 VMFS_vo1	5aa6e18d-304835ba-1711-4c776d996e2e
	4) sda5 vfat	4C6C-A2CA
	5) sda6 ufat	4C6C-A2CD
	6) sda8 ufat	4C6C-A2C8
	7) sr0 iso9660 CDR0M	2017-05-26-05-44-09-00
	# to select. 'r'-refresh, or 'c'-continue:	7
	DD: Examining /deu/sr0	
	mount: idenierA is write-protected, mounti	ng read-onlu
	Mounter racovaro ia write protected, mountri	ng read on rg
	(Page 1 of 1) Select drivers to install	
	1) [] /media/DD-1/rums/x86 $64/kmod-mut3s$	as-23.00.00.00 e17.3-1.x86 64.rnm
	# to toggie selection, or 'c'-continue:	

Stap 1. Voer '1' en vervolgens 'c' in om verder te gaan:

- KVM Console to flat panel table invalid

24.101400] nouveau 0000:62:00.0: DRM: Pointer to flat panel table invalid 24.676850] nouveau 0000:63:00.0: priv: HUB0: 10ecc0 ffffffff (1c40822c) 24.740881] nouveau 0000:63:00.0: DRM: Pointer to TMDS table invalid 24.7408971 nouveau 0000:63:00.0: DRM: Pointer to flat panel table invalid] Created slice system-driver\x2dupdates.slice. Starting Driver Update Disk UI on tty1... 1 Started Show Plymouth Boot Screen.] Reached target Paths. E 1 Reached target Basic System. ſ 1 Started Device-Mapper Multipath Device Controller. Ľ Starting Open-iSCS1...] Started Open-iSCSI. Starting dracut initqueue hook...] Created slice system-driver\x2dupdates.slice. Starting Driver Update Disk UI on tty1... DD: starting interactive mode (Page 1 of 1) Driver disk device selection DEVICE TYPE LABEL UUID 1) sda1 591C-E3E2 ufat ESXi 2) sda2 ufat 4C6C-A2D4 3) sda3 VMFS_uo1 5aa6e18d-304835ba-1711-4c776d996e2e 4) sda5 4C6C-A2CA ufat 5) sda6 ufat 4C6C-A2CD 4C6C-A2C8 6) sda8 ufat iso9660 RHEL-7.3\x20x86_64 2016-10-19-17-41-40-00 7) sr0 # to select, 'r'-refresh, or 'c'-continue: r (Page 1 of 1) Driver disk device selection DEVICE TYPE LABEL UUID 1) sda1 ufat ESXi 591C-E3E2 2) sda2 ufat 4C6C-A2D4 3) sda3 VMFS_uo1 5aa6e18d-304835ba-1711-4c776d996e2e 4) sda5 ufat 4C6C-A2CA 5) sda6 ufat 4C6C-A2CD 4C6C-A2C8 6) sda8 ufat iso9660 CDROM 2017-05-26-05-44-09-00 sr0 'r'-refresh, or 'c'-continue: 7 # to select, DD: Examining /deu/sr0 mount: /dev/sr0 is write-protected, mounting read-only (Page 1 of 1) Select drivers to install 1) [] /media/DD-1/rpms/x86_64/kmod-mpt3sas-23.00.00.00_e17.3-1.x86_64.rpm # to toggle selection, or 'c'-continue: 1 (Page 1 of 1) Select drivers to install 1) [x] /media/DD-1/rpms/x86_64/kmod-mpt3sas-23.00.00.00_e17.3-1.x86_64.rpm # to toggle selection, or 'c'-continue:

Stap 12. Het .rpm-stuurprogramma bevindt zich in het .iso-bestand. Mogelijk krijgt u een waarschuwing dat "DD repocontent geen bestand" is, maar het is alleen een waarschuwing - het stuurprogramma is geïnstalleerd.

Stap 13. U dient opnieuw in het menu "Stuurprogramma voor de keuze van het diskapparaat" te zijn. Koppel de ISOstuurprogramma los en geef de RHEL-ISO-kaart weer. Druk op 'r' om deze op te frissen en vervolgens op 'c' om verder te gaan met de RHEL-installatie. De installateur moet de RAID-controller en de door hem beheerde schijven kunnen herkennen.

ual KVM Console File View Macros Tools Power Boot Device	Virtual Media Help	_ Inform 🖪 🕀 🕙 発 🕥 🤴 🛜 🐠
	Create Image	
3) sda3 VMFS_vo1	Activate Virtual Devices	
4) sda5 ufat	Activate virtual Devices	
5) sdab Utat	rhel-server-7.3-x86_64-boot.iso Mapped to CD/DVD	
D Sado VIat 7) sub iso9660 RHFI-7 3x20x86 64	Map Removable Disk	
t to select. 'r'-refresh, or 'c'-continu	Map Floppy	
(Page 1 of 1) Driver disk device selection	on	
✓DEVICE TYPE LABEL	UUID	
1) sda1 vfat ESXi	591C-E3E2	
2) sda2 ufat	4C6C-A2D4	
3) sda3 VMFS_vo1	5aa6e18d-304835ba-1711-4c776d996e2e	
4) sda5 vfat	4C6C-A2CA	
5) sdab ufat	4C6C-A2CD	
b) sda8 Ufat	4UbC-A2C8	
7) Sr0 1SO9660 CDRUM	2017-05-26-05-44-09-00	
# to select, r -refresh, or c -continue		
nount: deutson is write-protected nound	ting read-only	
Mount: 7 acorsio is write protected, Mount	ering read-billy	
(Page 1 of 1) Select drivers to install		
1) [] /media/DD-1/rpms/x86 64/kmod-mpt3	3sas-23.00.00.00 e17.3-1.x86_64.rpm	
# to toggle selection, or 'c'-continue: 1	1	
(Page 1 of 1) Select drivers to install		
1) [x] /media/DD-1/rpms/x86_64/kmod-mpt3	3sas-23.00.00.00_e17.3-1.x86_64.rpm	
# to toggle selection, or 'c'-continue: 1		
(Page 1 of 1) Select drivers to install		
1) [] /media/DD-1/rnms/y86 64/kmod-mut	3sas-23 AA AA AA AA e12 3-1 x86 64 mm	
# to toggle selection, or 'c'-continue:	1	
w to toggie serection, or e continues ;	*	
(Page 1 of 1) Select drivers to install		
1) [x] /media/DD-1/rpms/x86_64/kmod-mpt3	3sas-23.00.00.00_e17.3-1.x86_64.rpm	
<pre># to toggle selection, or 'c'-continue:</pre>		
DD: Extracting: kmod-mpt3sas		
DD: WARNING: DD repo content not a file:	/media/DD-1/rpms/x86_64/repodata	
(Deve 4 of 4) Deiver diel de territ		
(rage 1 of 1) Driver disk device selection		
1) sdat ufat FSVi	5910-F3F2	
$\frac{1}{2} \operatorname{sda2} \operatorname{ufat}$	4060-6204	
3) sda3 UMFS up1	5aa6e18d-304835ba-1711-4c776d996e2e	
4) sda5 $ufat$	4C6C-A2CA	
5) sda6 vfat	4C6C-A2CD	
6) sda8 vfat	4C6C-A2C8	
7) sr0 iso9660 CDROM	2017-05-26-05-44-09-00	
# to select, 'r'-refresh, or 'c'-continue		

🥞 redhat	INSTALLATION	SUMMARY	RED	HAT ENTERPRISE LINUX 7.3	Help!
	LOCALIZA	TION			
	Θ	DATE & TIME Americas/New York timezone		KEYBOARD English (US)	
	á	LANGUAGE SUPPORT English (United States)			
	SOFTWAR	E			
	0	INSTALLATION SOURCE Setting up installation source		SOFTWARE SELECTION	ıр
	SYSTEM				
	<u>S</u>	INSTALLATION DESTINATION No disks selected	Q	KDUMP Kdump is enabled	
	∻	NETWORK & HOST NAME Not connected		SECURITY POLICY Not ready	
			We v	Quit Quit won't touch your disks until you cli	Begin Installation
	A Please complete	items marked with this icon before continuing	to the next step.		

- KVM Console

INSTALLATION DESTINATION		RED HA	T ENTERPRISE LINUX 7.3 INSTALL	ATION Help!
Device Selection Select the device(s) you'd like to Local Standard Disks	install to. They will be left untou	iched until you click on the main i	menu's "Begin Installation" button.	
223.57 GiB	5589.03 GiB	5589.03 GiB	5589.03 GiB	
ATA Mircon_5100_MTFD sda / 79 KiB free	sdf / 5589.03 GiB free	TOSHIBA MGO4SCA6OEA sdg / 5589.03 GiB free	TOSHIBA MGO4SCA6OEA sdh / 5589.03 GiB free	TO sc
Specialized & Network Disks				
Other Storage Options				
Partitioning	a O I will configure partitioning			
 I would like to make additional sp 	ace available.			
Encryption Encrypt my data. You'll set a pass;	phrase next.			
			O disks selected; O B capacity; O B free	Refresh
A No disks selected; please select at	least one disk to install to.			