Installation de RHEL sur un serveur UCS C240 M5 autonome.

Contenu

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Introduction

Cet article décrit la procédure d'installation de RHEL sur la configuration RAID locale dans un serveur UCSC C240 M5 autonome.

Configuration utilisée

UCSC-C240-M5L Contrôleur RAID : adaptateur HBA SAS Cisco 12G (UCSC-SAS-M5) 4 000 disques durs secteur CIMC : 3.1(3 bis) OS : RHEL 7.3

Conditions préalables

1. Téléchargez l'ISO RHEL et l'ISO du pilote de contrôleur :

RHEL : rhel-server-7.3-x86_64-boot.iso

ISO du pilote : ucs-cxxx-drivers-linux.3.1.3.iso

(Dans l'ISO, accédez à Stockage -> LS -> UCSC-SAS-M5 -> RHEL -> RHEL7.3 -> mpt3sas-23.00.00.00_el7.3-1.x86_64.iso.gz)

2. Si vous extrayez le fichier mpt3sas-23.00.00.00_el7.3-1.x86_64.iso.gz, vous obtiendrez le pilote ISO -> mpt3sas-23.00.00.00_el7.3-1.x86_64.o

3. De même, si vous utilisez un contrôleur UCSC-RAID-M5 sur votre serveur, vous pouvez accéder au pilote correspondant.

Procédure

Étape 1. Puisque le serveur a des lecteurs secteur 4k, nous allons faire un démarrage UEFI. L'ordre de démarrage doit être le suivant :

😕 📲 Cisco Integrated Management Controller		🐥 🔽 admir C240-WZP21510DCJ 🌣
↑ / Compute / BIOS ★		Refresh Host Power Launch KVM Ping CIMC Reboot Locator LED 🚱 🕕
BIOS Remote Management Troubleshooting Power Policies	PID Catalog	
Enter BIOS Setura L Clear BIOS CMOS L Destars Manufacturing Custom Settings L Page	tore Defaulte	
Enter DIOS Setup Creat DIOS CMOS Restore manufacturing Custom Setungs Res		
Configure BIOS Configure Boot Order Configure BIOS Profile		
BIOS Properties		
Running Version C240M5.3.1.3d.0.0312180914		
UEFI Secure Boot		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
Actual Boot Mode Uefi		
Configured Boot Mode UEFI	v	
Last Configured Boot Order Source CIMC		
Configured One time boot device		
Save Chan	ges	
✓ Configured Boot Devices	Actual Boot Devices	
Basic	UEFI: Built-in EFI Shell (UEFI)	
V Advanced	UEFI: PXE IP4 Intel(R) Ethernet Controller X550 (NonPolicyTarget)	
localCD	UEFI: PXE IP4 Intel(R) Ethernet Controller X550 (NonPolicyTarget)	
UEFI	UEFI: Cisco vKVM-Mapped vDVD1.24 (NonPolicyTarget)	
	8	

Étape 2. Ouvrez le KVM et mappez l'ISO RHEL :

🗯 Cisco Virtual KVM Console	File View	Macros	Tools	Power	Boot Device	Virtual Media	Help	奈 ≵ 🔗 📀 🖉 🌄 🤁
• • •						Create Ima	age	
						Activate V	irtual Devices	
						rhel-serve Map Remo Map Flopp	r-7.3-x86_64-boot.iso Mapped to CD/DVD vvable Disk y	
							Please select boot device:	
						UEFI: Built UEFI: PXE I UEFI: PXE I UEFI: Cisco Enter Setup	- <mark>in EFI Shell</mark> P4 Intel(R) Ethernet Controller P4 Intel(R) Ethernet Controller vKVM-Mapped vDVD1.24	x550 x550
						E	f and ↓ to move selection NTER to select boot device ESC to boot using defaults	

Étape 3. Appuyez sur F6 et démarrez à partir de l'UEFI : vDVD1.24 mappé sur Cisco vKVM

Étape 4.Sélectionnez l'option " Installer Red Hat Enterprise Linux 7.3 " et appuyez sur e



Étape 5. L'écran ci-dessous s'affiche :



Étape 6. Entrez la commande " linux dd " et faites un Ctrl + x



Étape 7. La commande ci-dessus démarre le mode interactif :



Étape 8. Démapper l'ISO RHEL et mapper le pilote du contrôleur ISO :

🔅 Cisco Virtual KVM Console File View Macros Tools Power Boot Device	Virtual Media Help	🕸 🚰 🖉 🕙 🍋 💫 🖇 🎅 🕪 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.		
E OK] Started Device-Mapper Multipath	Device Controller.	
Starting Open-iSCSI		
[OK] Started Open-iSCSI.		
Starting dracut initqueue hook		
[22.750254] nouveau 0000:60:00.0: priv	: HUBO: 10ecc0 ffffffff (1e40822c)	
[22.824043] nouveau 0000:60:00.0: DRM:	Pointer to TMDS table invalid	
L ZZ.824060 I nouveau 00000;500;00.0; JKH:	Pointer to flat panel table invalid	
[23.399872] nouveau 00000;61:00.0; priv	Beinten de TMDS deble invelid	
[23.4630323] DOUUCAU 0000.01.00.0. DM1.	Pointer to flat wavel table invalid	
[24.032598] nouveau 0000.01.00.0. Dni	· HURO: 10ecco fffffff (1440822c)	
[24.101383] nouveau 0000162:00.0: DRM:	Pointer to TMDS table invalid	
[24.101400] nouveau 0000:62:00.0: DBM:	Pointer to flat namel table invalid	
[24.676850] nouveau 0000:63:00.0: priv	: HUBO: 10ecc0 ffffffff (1c40822c)	
[24.740881] nouveau 0000:63:00.0: DRM:	Pointer to TMDS table invalid	
[24.740897] nouveau 0000:63:00.0: DRM:	Pointer to flat panel table invalid	
[OK] Created slice system-driver\x2du	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 Upen-iSCSI		
L UK J Started Upen-ISCSI.		
Starting dracut initgueue nook	·	
Stanting Driven Indate Dick II o	paales.siice.	
DD: starting interactive mode	n etgi	
bb, starting mestalered hour		
(Page 1 of 1) Driver disk device selectio	n	
DEVICE TYPE LABEL	UUID	
1) sda1 ufat ESXi	591C-E3E2	
2) sda2 ufat	4C6C-A2D4	
3) sda3 VMFS_vo1	5aa6e18d-304835ba-1711-4c776d996e2e	
4) sda5 ufat	4CbC-A2CA	
5) sdab ufat	4C6C-A2CU	
	100-H200 2016 10 10 17 41 40 00	
() SPU ISO3660 KHEL-7.3NX20X86_64	2010-10-10-17-41-40-00	
# to select, r -refresh, or c -continue		

Étape 9. Tapez r pour actualiser la liste des disques du pilote :

				ጉ
			- KVM Console	
[OK] Started Open-	-iSCSI.			
Starting dra	ut initqueue hook			
[22.750254] nouvea	0000:60:00.0: priu: H	UBO: 10ecc0 ffffffff	(1e40822c)	
[22.824043] nouvea	0000:60:00.0: DRM: Po	inter to TMDS table	invalid	
[22 82466A1 pourea	0000:60:00 0: DRM: Po	inter to flat namel	table invalid	
[23 3998721 nouveau	0000:60:00:00:00:00:00:00:00:00:00:00:00	IIBA: 10eccA fffffff	(1a40822c)	
[23 463012] nouveau	0000:01:00.0: prio: n	inten to TMDS table	inualid	
	0000:61:00.0: DRM: Po	inter to flat nanal	table invalid	
	0000:61:00.0. DMI: PU	Inter to riat paner	(1440922_{0})	
	10000.62.00.0.	inter to TMDS table		
	0000.62.00.0. DMI: FO	inter to Impo table	Invalla	
		inter to flat panel		
	(0000:63:00.0; pr10; H	UBU: 10ecc0 ffffffff	(10408220)	
L 24.740881J nouveau	1 0000:63:00.0: DRM: Po	inter to TMDS table	invalid	
[24.740897] nouveau	0000:63:00.0: DRM: Po	inter to flat panel	table invalid	
[OK] Created slice	e system-driver\x2dupda	tes.slice.		
Starting Driv	er Update Disk UI on t	ty1		
[OK] Started Show	Plymouth Boot Screen.			
[OK] Reached targ	et Paths.			
[OK] Reached targ	et Basic System.			
[OK] Started Devie	ce-Mapper Multipath Dev	ice Controller.		
Starting Ope	n-iSCSI			
[OK] Started Open	-iSCSI.			
Starting drag	ut initqueue hook			
[OK] Created slice	e system-driver\x2dupda	tes.slice.		
Starting Driv	ver Update Disk UI on t	tu1		
DD: starting interact	ive mode			
(Page 1 of 1) Driver	lisk device selection			
	LARFI.	חוו		
1) sda1 ufat	FSXi 5	91C-F3F2		
2) sda 2 ufat	4	C6C-62D4		
3) sda3 IMFS up 1		aa6e18d_304835ba_171	1-4-7764996929	
4) cda5 ufat	3	aabe10a-301033ba-111 r6r_62r6	1-101700330626	
E) edate utat	1	CCC_A2CD		
5) stab of at	1	CCC_A2C9		
		COC-H2CO 016 10 10 17 41 40 0		
	MHLL-7.3\X20X00_04 2	010-10-13-17-41-40-0	0	
# to select, r -refr	sh, or 'C'-continue: r			
(Page 1 of 1) Driver	lisk device selection			
DEVICE TYPE	LABEL U			
1) sda1 vfat	ESX1 5	91C-E3E2		
2) sda2 vfat	4	C6C-A2D4		
3) sda3 VMFS_vo1	5	aa6e18d-304835ba-171	1-4c776d996e2e	
4) sda5 vfat	4	C6C-A2CA		
5) sda6 vfat	4	C6C-A2CD		
6) sda8 vfat	4	C6C-A2C8		
7) sr0 iso9660	CDROM 2	017-05-26-05-44-09-0	00	
<pre># to select, 'r'-refr</pre>	esh, or 'c'-continue:			

Étape 10. La liste ISO du pilote de contrôleur s'affiche. Tapez 7 et effectuez la sélection :

Virtual KVM (

		8 - KVM CONSOLE
[23.463012] nouveau 0000:61:00.0: DRM: H	Pointer to TMDS table invalid
[23.463029] nouveau 0000:61:00.0: DRM: H	Pointer to flat panel table invalid
ſ	24.037598] nouveau 0000:62:00.0: priv:	HUBO: 10ecc0 ffffffff (1d40822c)
ſ	24.101383] nouveau 0000:62:00.0: DRM: H	Pointer to TMDS table invalid
[24.101400] nouveau 0000:62:00.0: DRM: H	Pointer to flat panel table invalid
ſ	24.676850] nouveau 0000:63:00.0: priv:	HUBO: 10ecc0 ffffffff (1c40822c)
ſ	24.7408811 nouveau 0000:63:00.0: DRM: H	Pointer to TMDS table invalid
r.	24.7408971 nouveau 0000:63:00.0: DRM: F	Pointer to flat namel table invalid
i i i i i i i i i i i i i i i i i i i	OK 1 Created slice sustem-driversy2dund	lates slice
L	Stanting Driver Undate Disk III on	+++++1
r	OV 1 Stanted Shou Plumouth Root Screen	cigi
	OV 1 Peached taxget Patho	
	OK J Reached target Pacie Suster	
L	UN I Neachea target basic system.	
L	UK J Started Device-Happer Hultipath De	cuice controller.
	Starting Upen-ISCSI	
L	UK J Started Upen-15651.	
	Starting dracut initqueue hook	
L	UK J Created slice system-drivervx2dupd	lates.slice.
	Starting Driver Update Disk UI on	tty1
DI): starting interactive mode	
(1	Page 1 of 1) Driver disk device selection	
	✓DEVICE TYPE LABEL	UUID
1	l)sda1 ufat ESXi	591C-E3E2
2	2) sda2 ufat	4C6C-A2D4
	3) sda3 VMFS_vo1	5aa6e18d-304835ba-1711-4c776d996e2e
4	1) sda5 ufat	4C6C-A2CA
5	5) sda6 vfat	4C6C-A2CD
6	5) sda8 vfat	4C6C-A2C8
7	7) sr0 iso9660 RHEL-7.3\x20x86_64	2016-10-19-17-41-40-00
#	to select, 'r'-refresh, or 'c'-continue:	r
(1	Page 1 of 1) Driver disk device selection	
	✓DEVICE TYPE LABEL	UUID
	1)sda1 ufat ESXi	591C-E3E2
2	2) sda2 ufat	4C6C-A2D4
	3) sda3 VMFS vol	5aa6e18d-304835ba-1711-4c776d996e2e
4	1) sda5 ufat	4C6C-A2CA
	5) sdaf ufat	4050-6200
-	5) sda8 ufat	4660-6268
	7 3 3 3 3 3 3 3 3 3 3	2017-05-26-05-44-09-00
	to celect in methach on ici centinus:	7
#	CO SCIECT, F -refresh, or c -continue.	
DI	which the second is units protected reputing	and only
MC	Junt: Jueo/Sro IS write-protected, Mountin	ig read-onry
(1	Page 1 of 1) Select drivers to install	
	age 1 of 1) select arivers to install	a_{2}^{2} 00 00 00 017 2-1 v_{2}^{2} 64 mm
	to torrela coloction on 'o' continue	12-23.00.00.00_e11.3-1.X00_01.Thu
#	to toggle selection, or 'c'-continue: _	

Étape 11. Entrez « 1 », puis « c » pour continuer :

- 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... Started Show Plymouth Boot Screen.] Reached target Paths. E ſ] Reached target Basic System. 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 ufat ESXi 591C-E3E2 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 'r'-refresh, or 'c'-continue: r # to select, (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 2017-05-26-05-44-09-00 sr0 iso9660 CDROM 'r'-refresh, or 'c'-continue: # to select, 7 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:

Étape 12. Le pilote .rpm se trouve dans le fichier .iso. Il se peut que vous receviez un avertissement indiquant que " contenu DD repo n'est pas un " de fichier, mais qu'il s'agit seulement d'un avertissement - le pilote aurait été installé.

Étape 13. Vous devez revenir au menu " de sélection du périphérique de disque " Driver. Démappez l'ISO du pilote et mappez à nouveau votre ISO RHEL. Appuyez sur r pour actualiser, puis sur c pour continuer l'installation RHEL. Le programme d'installation doit être capable de reconnaître le contrôleur RAID et les disques gérés par celui-ci.

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 Viat	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 nount	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 INSTALLATION		
	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	k			
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.			