

독립형 UCS C240 M5 서버에 RHEL 설치

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UCSC C240 M5 RAID RHEL ().

UCSC-C240-M5L

RAID : Cisco 12G SAS HBA(UCSC-SAS-M5)

4K HDD

CIMC:3.1(3a)

OS:RHEL 7.3

1. RHEL ISO ISO .

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

ISO:[ucs-cxxx-drivers-linux.3.1.3.iso](#)

(ISO Storage() -> LS -> UCSC-SAS-M5 -> RHEL -> RHEL7.3 -> mpt3sas-23.00.00.00_el7.3-1.x86_64.iso.gz .)

2. mpt3sas-23.00.00.00_el7.3-1.x86_64.iso.gz ISO -> mpt3sas-23.00.00.00_el7.3-1.x86_64.iso .

3. UCSC-RAID-M5 .

1. 4k UEFI . . .

Cisco Integrated Management Controller

Compute / BIOS

BIOS Remote Management Troubleshooting Power Policies PID Catalog

Enter BIOS Setup | Clear BIOS CMOS | Restore Manufacturing Custom Settings | Restore Defaults

Configure BIOS Configure Boot Order **Configure BIOS Profile**

BIOS Properties

Running Version C240M5.3.1.3d.0.0312180914

UEFI Secure Boot

Actual Boot Mode Uefi

Configured Boot Mode UEFI

Last Configured Boot Order Source CIMC

Configured One time boot device

Save Changes

Configured Boot Devices

- Basic
- Advanced
- localCD
- UEFI

Actual Boot Devices

- UEFI: Built-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)

2. KVM RHEL ISO .

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:

```

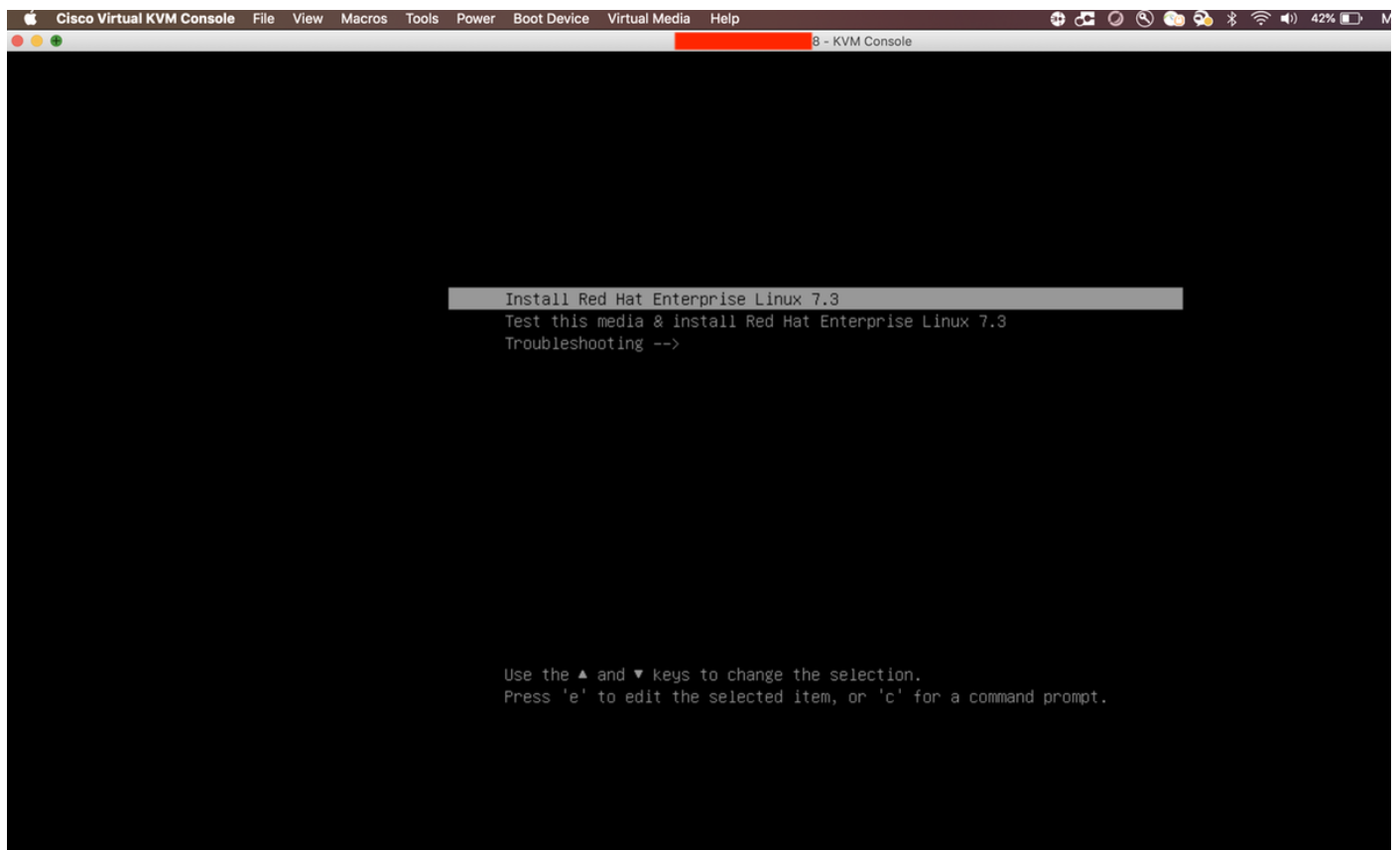
UEFI: Built-in EFI Shell
UEFI: PXE IP4 Intel(R) Ethernet Controller X550
UEFI: PXE IP4 Intel(R) Ethernet Controller X550
UEFI: Cisco vKVM-Mapped vDVD1.24
Enter Setup

```

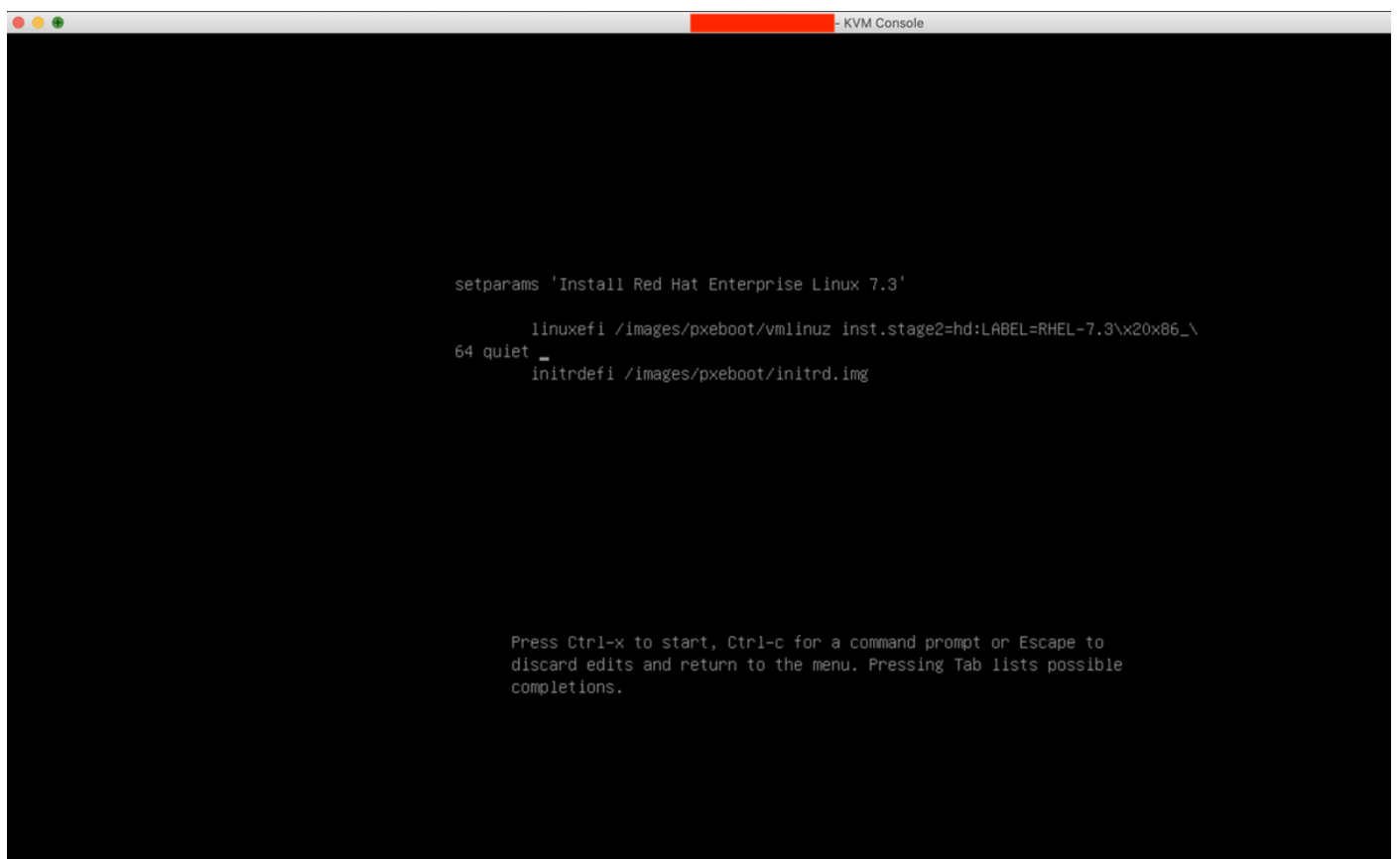
↑ and ↓ to move selection
 ENTER to select boot device
 ESC to boot using defaults

3. F6 UEFI .Cisco vKVM-Mapped vDVD1.24

4. "Install Red Hat Enterprise Linux 7.3" 'e' .



5. .



6. "linux dd" Ctrl + x .

```
8 - KVM Console

setparams 'Install Red Hat Enterprise Linux 7.3'

    linuxefi /images/pxeboot/vmlinuz inst.stage2=hd:LABEL=RHEL-7.3\x20x86_\
64 quiet linux dd_
    initrdefi /images/pxeboot/initrd.img

Press Ctrl-x to start, Ctrl-c for a command prompt or Escape to
discard edits and return to the menu. Pressing Tab lists possible
completions.
```

7. .

```
- KVM Console

[ 18.162151] i8042: Can't read CTR while initializing i8042
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
[ 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: 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
[ 23.399372] nouveau 0000:61:00.0: priv: HUB0: 10ecc0 ffffffff (1e40822c)
[ 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 panel table invalid
[ 24.676850] nouveau 0000:63:00.0: priv: HUB0: 10ecc0 ffffffff (1e40822c)
[ 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\x2dupdates.slice.
      Starting Driver Update Disk UI on tty1...
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
[ OK ] Started Device-Mapper Multipath Device Controller.
      Starting Open-iscsi...
[ OK ] Started Open-iscsi.
      Starting dracut initqueue hook...
[ OK ] 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  ESXi   4C6C-A2D4
3) sda3  UMFS_ool  5aa6e18d-304835ba-1711-4c776d996e2c
4) sda5  ufat  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
# to select, 'r'-refresh, or 'c'-continue:

10.197.242.78 | admin | 5.0 fps | 2.816 KB/s
```

8. RHEL ISO ISO .

```
Cisco Virtual KVM Console File View Macros Tools Power Boot Device Virtual Media Help
Create Image
  ✓ Activate Virtual Devices
  ✓ mpt3sas-23.00.00.00_el7.3-1.x86_64.iso Mapped to CD/DVD
  Map Removable Disk ...
  Map Floppy ...

[ 18.162151] i8042: Can't read CTRL whi
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
[ 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: 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: HUB0: 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
[ 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 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
[ 24.740897] nouveau 0000:63:00.0: DRM: Pointer to flat panel table invalid
[ OK ] Created slice system-driver\x2dupdates.slice.
      Starting Driver Update Disk UI on tty1...
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
[ OK ] Started Device-Mapper Multipath Device Controller.
      Starting Open-iSCSI...
[ OK ] Started Open-iSCSI.
      Starting dracut initqueue hook...
[ OK ] 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   vfat  ESXi   591C-E3E2
  2) sda2   vfat  4C6C-A2D4
  3) sda3   UEFI  5aa6e18d-304835ba-1711-4c776d996e2e
  4) sda5   vfat  4C6C-A2CA
  5) sda6   vfat  4C6C-A2CD
  6) sda8   vfat  4C6C-A2CB
  7) sr0    iso9660 RHEL-7.3\x20x86_64 2016-10-19-17-41-40-00
# to select, 'r'-refresh, or 'c'-continue:
```

9. 'r'.

```
Cisco Virtual KVM Console File View Macros Tools Power Boot Device Virtual Media Help - KVM Console
[ OK ] Started Open-iSCSI.
Starting dracut initqueue 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: HUB0: 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
[ 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 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
[ 24.740897] nouveau 0000:63:00.0: DRM: Pointer to flat panel table invalid
[ OK ] Created slice system-driver\x2dupdates.slice.
Starting Driver Update Disk UI on tty1...
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
[ OK ] Started Device-Mapper Multipath Device Controller.
Starting Open-iSCSI...
[ OK ] Started Open-iSCSI.
Starting dracut initqueue hook...
[ OK ] 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
  3) sda3   UMFS_vol 5aa6e18d-304835ba-1711-4c776d996e2e
  4) sda5   ufat
  5) sda6   ufat
  6) sda8   ufat
  7) sr0    iso9660 RHEL-7.3\x20x86_64 2016-10-19-17-41-40-00
# 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
  3) sda3   UMFS_vol 5aa6e18d-304835ba-1711-4c776d996e2e
  4) sda5   ufat
  5) sda6   ufat
  6) sda8   ufat
  7) sr0    iso9660 CDROM       2017-05-26-05-44-09-00
# to select, 'r'-refresh, or 'c'-continue:
```

10. ISO .'7' .

```
3 - KVM Console
[ 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 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
[ 24.740897] nouveau 0000:63:00.0: DRM: Pointer to flat panel table invalid
[ OK ] Created slice system-driver\x2dupdates.slice.
Starting Driver Update Disk UI on tty1...
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
[ OK ] Started Device-Mapper Multipath Device Controller.
Starting Open-iSCSI...
[ OK ] Started Open-iSCSI.
Starting dracut initqueue hook...
[ OK ] 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 UMFS_vol 5aa6e18d-304835ba-1711-4c776d996e2e
 4) sda5 ufat 4C6C-A2CA
 5) sda6 ufat 4C6C-A2CD
 6) sda8 ufat 4C6C-A2CB
 7) sr0 iso9660 RHEL-7.3\x20x86_64 2016-10-19-17-41-40-00
# 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 UMFS_vol 5aa6e18d-304835ba-1711-4c776d996e2e
 4) sda5 ufat 4C6C-A2CA
 5) sda6 ufat 4C6C-A2CD
 6) sda8 ufat 4C6C-A2CB
 7) sr0 iso9660 CDROM 2017-05-26-05-44-09-00
# to select, 'r'-refresh, or 'c'-continue: 7
DD: Examining /dev/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: _
```

11. 'l' 'c'.

```

[ 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
[ 24.740897] nouveau 0000:63:00.0: DRM: Pointer to flat panel table invalid
[ OK ] Created slice system-driver\x2dupdates.slice.
Starting Driver Update Disk UI on tty1...
[ OK ] Started Show Plymouth Boot Screen.
[ OK ] Reached target Paths.
[ OK ] Reached target Basic System.
[ OK ] Started Device-Mapper Multipath Device Controller.
Starting Open-iSCSI...
[ OK ] Started Open-iSCSI.
Starting dracut initqueue hook...
[ OK ] 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
3) sda3    UMFS_vol   5aa6e18d-304835ba-1711-4c776d996e2e
4) sda5    ufat       4C6C-A2CA
5) sda6    ufat       4C6C-A2CD
6) sda8    ufat       4C6C-A2CB
7) sr0     iso9660    RHEL-7.3\x20x86_64 2016-10-19-17-41-40-00
# 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
3) sda3    UMFS_vol   5aa6e18d-304835ba-1711-4c776d996e2e
4) sda5    ufat       4C6C-A2CA
5) sda6    ufat       4C6C-A2CD
6) sda8    ufat       4C6C-A2CB
7) sr0     iso9660    CDROM           2017-05-26-05-44-09-00
# to select, 'r'-refresh, or 'c'-continue: 7
DD: Examining /dev/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:

```

12. .rpm .iso ."DD repo content not a file(DD)" , . . .

13. " " .ISO RHEL ISO .' 'c' RHEL . RAID . . .


```
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 ...

3) sda3  UMFS_vo1
4) sda5  ufat
5) sda6  ufat
6) sda8  ufat
7) sr0   iso9660  RHEL-7.3\x20x86_64
# to select, 'r'-refresh, or 'c'-continue:

(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  UMFS_vo1 5aa6e18d-304835ba-1711-4c776d996e2e
4) sda5  ufat 4C6C-A2CA
5) sda6  ufat 4C6C-A2CD
6) sda8  ufat 4C6C-A2C8
7) sr0   iso9660 CDROM 2017-05-26-05-44-09-00
# to select, 'r'-refresh, or 'c'-continue: ?
DD: Examining /dev/sr0
mount: /dev/sr0 is write-protected, mounting read-only

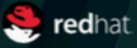
(Page 1 of 1) Select drivers to install
1) [ ] /media/DD-1/rpms/x86_64/kmod-mpt3sas-23.00.00.00_e17.3-1.x86_64.rpm
# to toggle selection, or 'c'-continue: 1

(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: 1

(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: c
DD: Extracting: kmod-mpt3sas
DD: WARNING: DD repo content not a file: /media/DD-1/rpms/x86_64/repoata

(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  UMFS_vo1 5aa6e18d-304835ba-1711-4c776d996e2e
4) sda5  ufat 4C6C-A2CA
5) sda6  ufat 4C6C-A2CD
6) sda8  ufat 4C6C-A2C8
7) sr0   iso9660 CDROM 2017-05-26-05-44-09-00
# to select, 'r'-refresh, or 'c'-continue:
```



INSTALLATION SUMMARY

RED HAT ENTERPRISE LINUX 7.3 INSTALLATION

us

Help!

LOCALIZATION



DATE & TIME
Americas/New York timezone



KEYBOARD
English (US)



LANGUAGE SUPPORT
English (United States)

SOFTWARE



INSTALLATION SOURCE
Setting up installation source...



SOFTWARE SELECTION
Installation source not set up

SYSTEM



INSTALLATION DESTINATION
No disks selected



KDUMP
Kdump is enabled



NETWORK & HOST NAME
Not connected



SECURITY POLICY
Not ready

Quit

Begin Installation

We won't touch your disks until you click 'Begin Installation'.

Please complete items marked with this icon before continuing to the next step.

Done



us

Help!


Device Selection

Select the device(s) you'd like to install to. They will be left untouched until you click on the main menu's "Begin Installation" button.

Local Standard Disks

223.57 GiB  ATA Mircon_5100_MTFD sda / 79 KiB free	5589.03 GiB  TOSHIBA MGO4SCA60EA sdf / 5589.03 GiB free	5589.03 GiB  TOSHIBA MGO4SCA60EA sdg / 5589.03 GiB free	5589.03 GiB  TOSHIBA MGO4SCA60EA sdh / 5589.03 GiB free	TO sc
----------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------	----------

Specialized & Network Disks

 Add a disk...

Other Storage Options

Partitioning

Automatically configure partitioning. I will configure partitioning.

I would like to make additional space available.

Encryption

Encrypt my data. You'll set a passphrase next.

0 disks selected; 0 B capacity; 0 B free [Refresh...](#)

 No disks selected; please select at least one disk to install to.