

在獨立UCS C240 M5伺服器上安裝RHEL。

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UCSC C240 M5RAIDRHEL

UCSC-C240-M5L
RAIDCisco 12G SAS HBA(UCSC-SAS-M5)
4KHDD
CIMC:3.1(3a)
RHEL 7.3

1.RHEL ISOISO:

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

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

ISOStorage -> 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.gzISO -> mpt3sas-23.00.00.00_el7.3-1.x86_64.iso

3.UCSC-RAID-M5

1.4kUEFI

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.KVMRHEL 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 ...

```

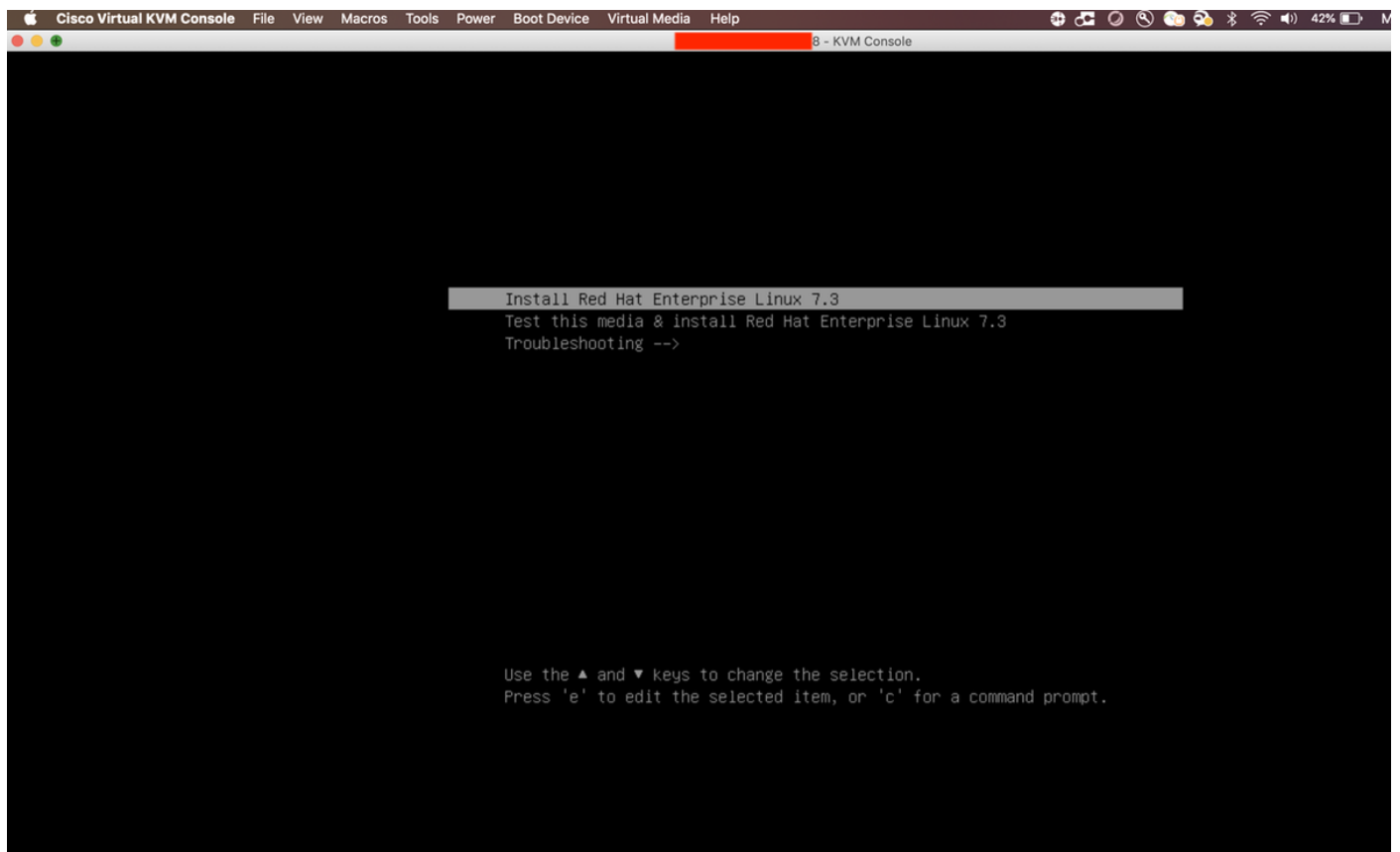
Please select boot device:

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

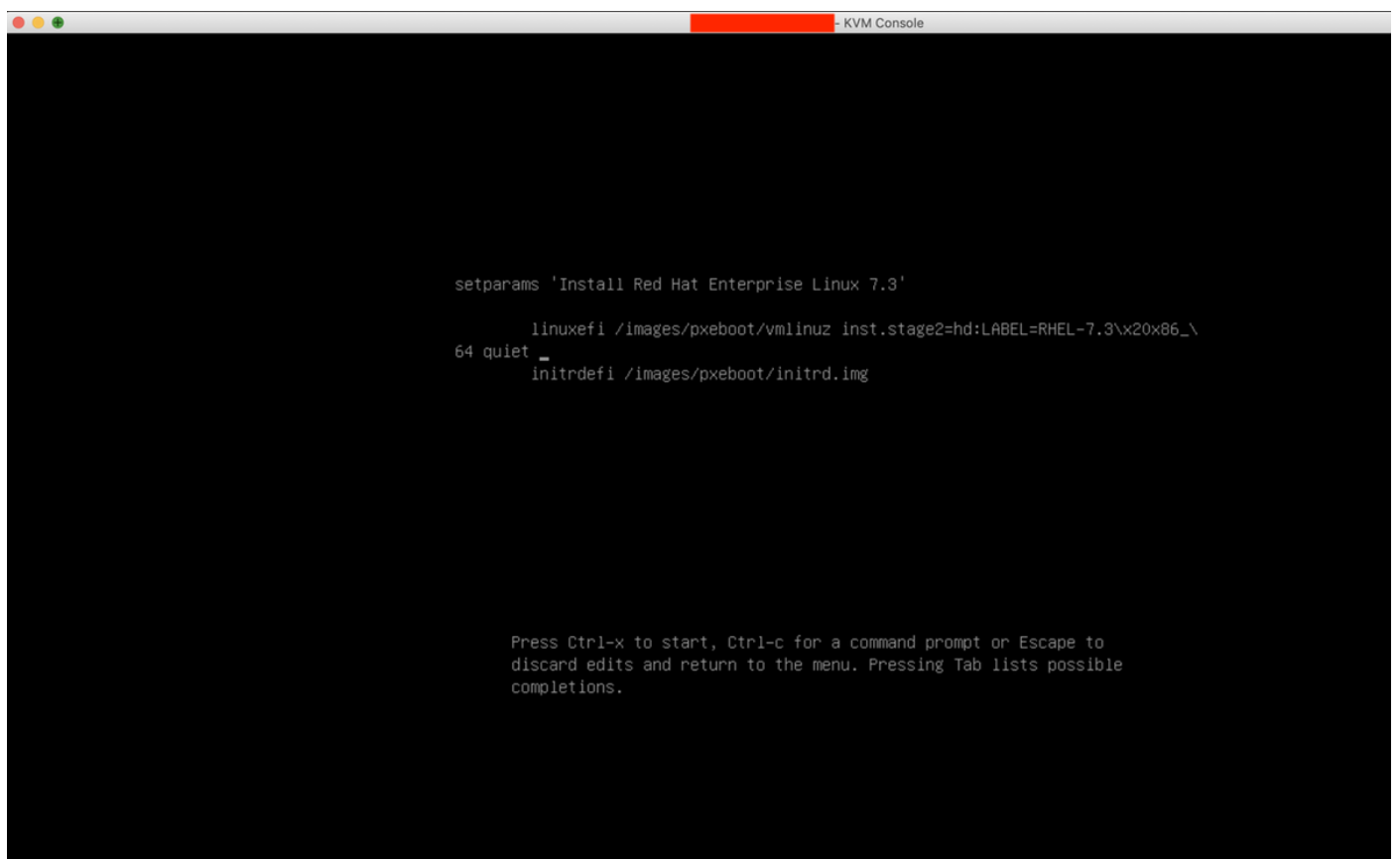
↑ and ↓ to move selection
ENTER to select boot device
ESC to boot using defaults
  
```

3.F6UEFICisco vKVMvDVD1.24

4.Red Hat Enterprise Linux 7.3e



5.



6.linux ddCtrl + 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_
    initrddefi /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: priu: 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: priu: 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: priu: 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: priu: 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-1711-4c776d996e2e
4) sda5  ufat  A2CA   4C6C-A2CA
5) sda6  ufat  A2CD   4C6C-A2CD
6) sda8  ufat  A2C8   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 ISOISO:

```

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 CTR 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  A2D4   4C6C-A2D4
  3) sda3   UEFI  vol    5aa6e18d-304835ba-1711-4c776d996e2e
  4) sda5   vfat  A2CA   4C6C-A2CA
  5) sda6   vfat  A2CD   4C6C-A2CD
  6) sda8   vfat  A2CB   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  4C6C-A2D4
  3) sda3   UMFS_vol  5aa6e18d-304835ba-1711-4c776d996e2e
  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: 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-A2C8
  7) sr0    iso9660  CDROM  2017-05-26-05-44-09-00
# to select, 'r'-refresh, or 'c'-continue:
```

10ISO7

```

[ 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:

```

```
KVM Console
[ 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      ESXi           4C6C-A2D4
3) sda3    VMFS_vol  5aa6e18d-304835ba-1711-4c776d996e2e
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: r

(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    VMFS_vol  5aa6e18d-304835ba-1711-4c776d996e2e
4) sda5    ufat      4C6C-A2CA
5) sda6    ufat      4C6C-A2CD
6) sda8    ufat      4C6C-A2C8
7) sr0     iso9660   CDRROM         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.isoDD repo content not a file —

13.ISORHEL ISOr — cRHELRAID


```
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

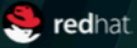
(Page 1 of 1) Select drivers to install
1) [ ] /media/DD-1/rpms/x86_64/kmod-mpt3sas-23.00.00.00_e17.3-1.x86_64.rpm
# to toggle selection, or 'c'-continue: 1

(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.