

在独立UCS C240 M5服务器上安装RHEL。

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UCSC C240 M5RAIDRHEL

UCSC-C240-M5L
RAID12G 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_el7.3-1.x86_64.iso.gz

2.mpt3sas-23.00.00.00_el7.3-1.x86_64.iso.gzISO -> mpt3sas-23.00.00_el7.3-1.x86_64.gz

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:

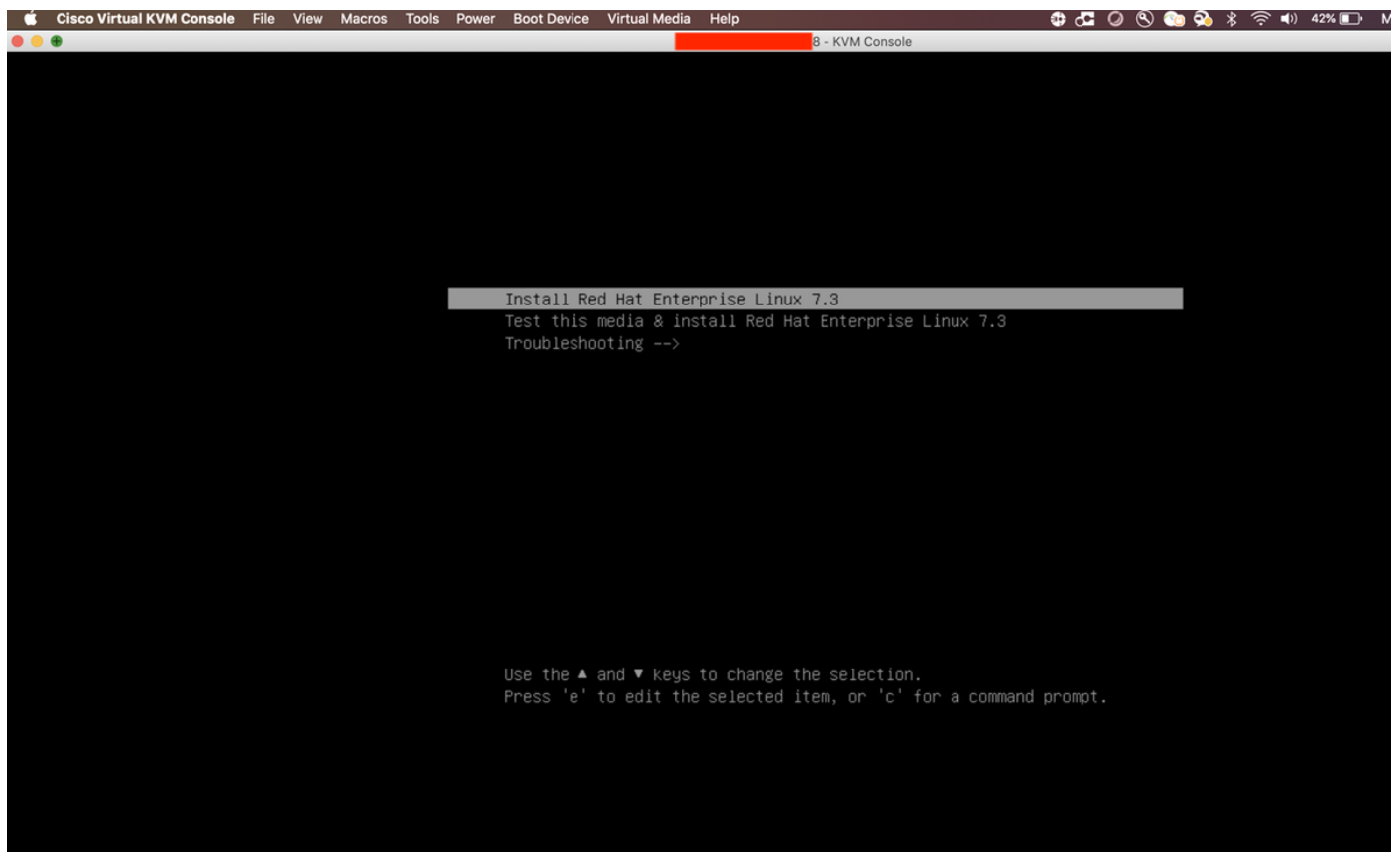
```

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
  
```

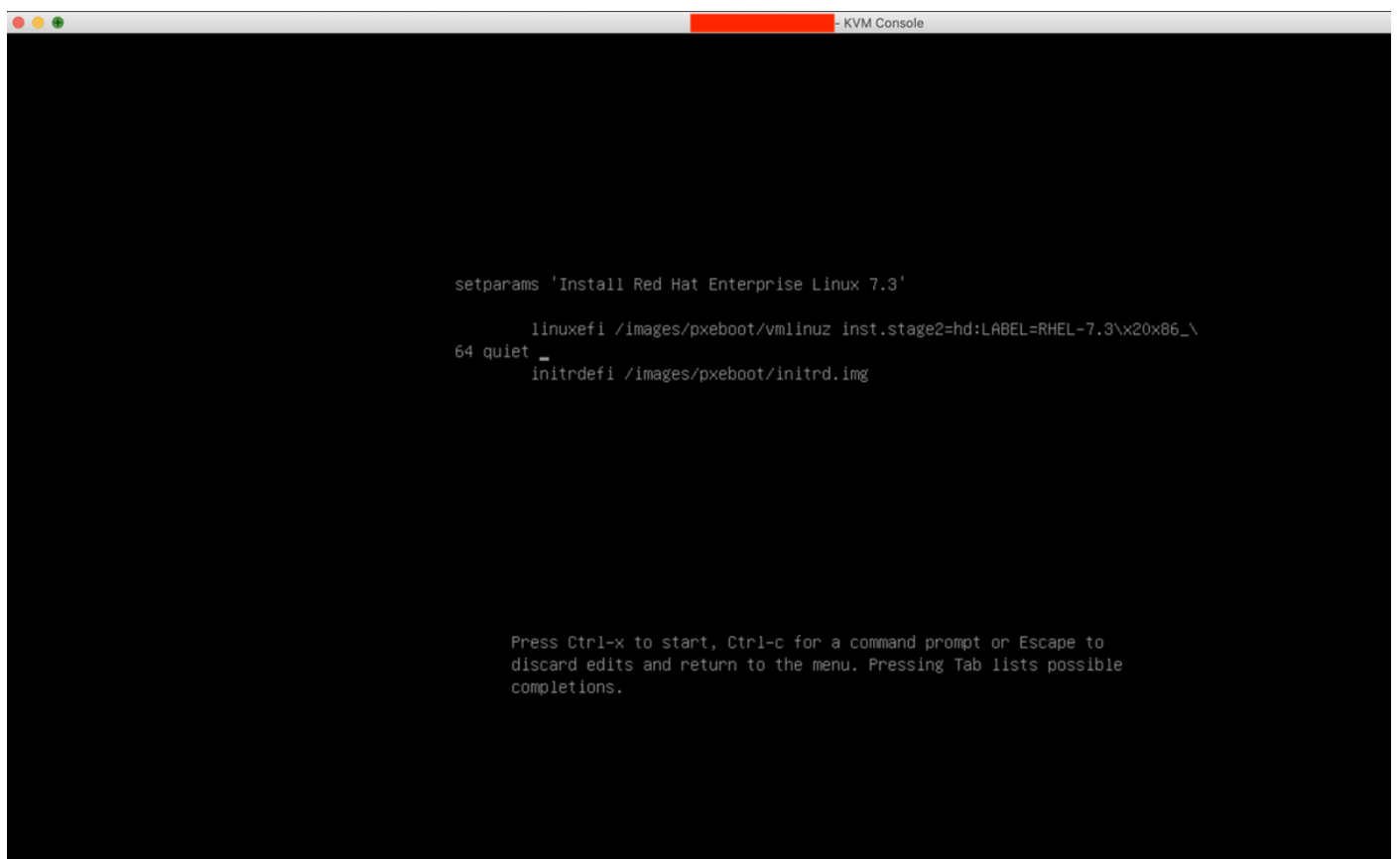
↑ and ↓ to move selection
 ENTER to select boot device
 ESC to boot using defaults

3.F6UEFIvKVMvDVD1.24

4. "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_
    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: priv: HUB0: 10ecc0 ffffffff (1e40822c)
[ 22.824043] nouveau 0000:60:00.0: DRM: Pointer to TMD5 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 TMD5 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 TMD5 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 TMD5 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 CTRL status from keyboard
[ 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
[ 22.824069] 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
[ 24.676859] 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    UMSFS_vol                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  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:
```

10.ISO“7”

```

[ 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.'1"'

```
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   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       ESXi           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: 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” —

13.“Driver disk device selection”ISORHEL ISO“r” — “c”RHELRAID


```
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

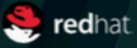
(Page 1 of 1) Select drivers to install
1) [ ] /media/DD-1/rpms/x86_64/kmod-mpt3sas-23.00.00.00_e17.3-1.x86_64.rpm
# to toggle selection, or 'c'-continue: 1

(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.