RHCA环境制作

教学环境由两部分组成 Foundation和具体课程两个文件夹

Foundation-RHEL73-5.r2017060219-2017-06-02 ——》基础文件夹

RH236-RHGS3.1-1.r41468-2016-06-17 ——》具体课程文件夹 RH236为课程代码

以下以RHCA236课程的教学环境为例描述具体部署细则：

1. 部署前准备

64GU盘

一台可运行脚本的rhel7，支持ext4分区格式

1. 下载环境部署需要两个文件夹到提前准备好的RHEL7系统中

**[root@foundation0 rh236]# ls Foundation-RHEL73-5.r2017060219-2017-06-02/**

ClassPrep-7.x-5.r2017042000git2c71d8a.txt

ClassroomReset-7.x-5.r2017042000git2c71d8a.txt

ClassroomSetup-7.x-5.r2017042000git2c71d8a.txt

ClassroomTroubleshooting-7.x-5.r2017042000git2c71d8a.txt

foundation0-config-7.x-5.r2017042000git2c71d8a.noarch.rpm

foundation-config-7.x-5.r2017042000git2c71d8a.noarch.rpm

openvswitch-2.4.0-1.el7.x86\_64.rpm

redhat-survey-7.x-57.19.noarch.rpm

rhci-foundation-7.3-5.r2017042000git3766dd5.iso

RHCIfoundation-RHEL73-5.r2017060219-ILT-7-en\_US.icmf

rhel-server-7.3-x86\_64-dvd.iso

rht-usb-7.x-5.r2017042718git307f3db

**[root@foundation0 rh236]# ls RH236-RHGS3.1-1.r41468-2016-06-17/**

ClassroomSetup-RH236-3.1-0.r41468.txt

foundation0-rhgs-3.1-0.r41468.noarch.rpm

rh236-classroom-7.2-20160421.xml

rh236-manager-7.2-20160421.xml

RH236-RHGS3.1-1.r41468-ILT+VT+ROLE+RAV-7-en\_US.icmf

RH236-RHGS3.1-en-1-20160627-slides.pdf

rh236-servera-7.2-20160421.xml

rh236-serverb-7.2-20160421.xml

rh236-serverc-7.2-20160421.xml

rh236-serverd-7.2-20160421.xml

rh236-servere-7.2-20160421.xml

rh236-workstation-7.2-20160421.xml

RHEL6RHGS-3.1-20160315-x86\_64.iso

RHEL7RHGS-3.1-20160315-x86\_64.iso

rhel-classroom-vda-30G-7.2-20160317.qcow2

rhel-server-6.7-x86\_64-dvd.iso

rhel-server-7.2-x86\_64-dvd.iso

rhel-server/-vda-40G-6.7-20160317.qcow2

rhel-workstation-vda-10G-7.2-20160317.qcow2

RHGS-3.1-docs-201603.iso

rhgs-3.1-u2-rhel-7-x86\_64-dvd-2.iso

rhgs-server-vda-7.2-20160321.qcow2

rhgs-server-vdb-7.2-20160321.qcow2

**#lsblk** //查看U盘盘符 ，本例中盘符为/dev/sdb4

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

sda 8:0 0 465.8G 0 disk

├─sda1 8:1 0 458G 0 part /

└─sda2 8:2 0 7.8G 0 part [SWAP]

sdb 8:16 1 58.2G 0 disk

└─sdb4 8:20 1 58.2G 0 part

1. 修改icrm配置文件，将repository：后面的目录修改为Foundation所在目录。

**#vim /root/.icrm/config.yml**

**---**

**repository: /home/kiosk/Desktop/rh236/Foundation-RHEL73-5.r2017060219-2017-06-02/**

【repository：后面一定要有空格】

1. 格式化U盘

**#cd /home/kiosk/Desktop/rh236/Foundation-RHEL73-5.r2017060219-2017-06-02/**

**#chmod +x rht-usb-7.x-5.r2017042718git307f3db**

**#./rht-usb-7.x-5.r2017042718git307f3db usbformat /dev/sdb4**

INFO Configuration file: /root/.icrm/config.yml

INFO Formatting USB Device: /dev/sdb4

Confirm reformatting /dev/sdb4 (y/N) y

INFO mkfs.ext4 64-bit support

INFO /dev/sdb4: format OK

INFO Appear to have properly formatted USB device.

1. 校验数据是否完整

**#./rht-usb-7.x-5.r2017042718git307f3db verify /home/kiosk/Desktop/rh236/Foundation-RHEL73-5.r2017060219-2017-06-02/RHCIfoundation-R**HEL73-5.r2017060219-ILT-7-en\_US.icmf

将第一个文件夹下的数据添加到U盘

**#./rht-usb-7.x-5.r2017042718git307f3db usbadd /home/kiosk/Desktop/rh236/Foundation-RHEL73-5.r2017060219-2017-06-02/RHCIfoundation-RHEL73-5.r2017060219-ILT-7-en\_US.icmf**

...... Copying /home/kiosk/Desktop/rh236/Foundation-RHEL73-5.r2017060219-2017-06-02/ClassPrep-7.x-5.r2017042000git2c71d8a.txt (28.2K) to /tmp/tmppGsa2\_/docs/ClassPrep-7.x-5.r2017042000git2c71d8a.txt

INFO USBAdd completed.

1. 将第二个文件夹下的数据添加到U盘里，将第二个RH236的文件夹下的所有数据移到Foundation目录下【也可以更改config.yum里的repository： 的路径】

**#mv /home/kiosk/Desktop/rh236/RH236-RHGS3.1-1.r41468-2016-06-17/\* //home/kiosk/Desktop/rh236/home/kiosk/Desktop/rh236/Foundation-RHEL73-5.r2017060219-2017-06-02/**

**#./rht-usb-7.x-5.r2017042718git307f3db usbadd /home/kiosk/Desktop/rh236/RH236-RHGS3.1-1.r41468-2016-06-17/RH236-RHGS3.1-1.r41468-ILT+VT+ROLE+RAV-7-en\_US.icmf**

......

Copying /home/kiosk/Desktop/rh236/Foundation-RHEL73-5.r2017060219-2017-06-02/ClassroomSetup-RH236-3.1-0.r41468.txt (1.7K) to /tmp/tmpHPW6pg/docs/ClassroomSetup-RH236-3.1-0.r41468.txt

INFO USBAdd completed.

1. 制作U盘启动盘

# ./rht-usb-7.x-5.r2017042718git307f3db usbmkboot

INFO Using parted to tag bootable /dev/sdb4

INFO /dev/sdb4: parted set of boot flag OK

INFO Appear to have successfully made USB bootable.