Red Hat Services Management and Automation

1 管理网络服务

Controlling Network Services Configuring Network Interfaces

指导练习: 自动化配置服务和网络接口

- 2 配置网络聚合 配置网络Team
- 3 管理DNS和DNS服务器
- 4 管理DHCP和IP地址分配
- 5 管理打印机和打印文件
- 6配置邮件传输
- 7配置MariaDB SQL数据库
- 8配置Web服务器
- 9 调整Web服务器流量
- 10 提前基于文件的网络存储
- 11 访问基于块的网络存储

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Red Hat Services Management and Automation

- Service / RHCE7
 - o man
 - o --help
- Ansible / RHCE8
 - https://docs.ansible.com/ansible/2.8/index.html#
 - keywords
 - name
 - hosts

- tasks
- vars
- loop(for)
- Module Index
- o ansible-doc

```
$ ansible-doc -1 | grep KEYWORD
$ ansible-doc MODULE-NAME
```

本课程基于

- 红帽 Ansible 引擎 2.9
- 红帽企业 Linux 8.1

[kiosk@foundation]

所有的lab脚本存储位置

```
$ ls /content/courses/rh358/rhel8.1/grading-scripts/
```

1管理网络服务

network+NetworkManager <=7 NetworkManager(**nmcli**) >=8

- Systemd回顾
- NetworkManager回顾
- 自动化配置服务和网络接口

```
-RHEL>=7 /pid=1=systemd

# systemctl list-unit-files | grep KEYWORD

# systemctl status KEYWORD

* # systemctl enable --now DAEMON

# systemctl enable DAEMON

# systemctl start DAEMON

* # systemctl restart DAEMON # <=- run + vim/conf

# systemctl status DAEMON

# systemctl get-default

# systemctl -t target

-CLI RHEL>=7 RHEL<6

# systemctl isolate multi-user.target # init 3

-GUI

# systemctl isolate graphical.target # init 5
```

```
# systemctl set-default multi-user.target

# systemctl list-dependencies graphical.target | grep target

# systemctl status crond.service

# systemctl stop crond.service

# systemctl mask crond.service

# systemctl is-active crond.service

# systemctl start crond || echo 无法启动

# systemctl unmask crond.service

# systemctl start crond && echo 可以启动

# systemctl is-active crond.service
```

Controlling Network Services

```
USERCTL=yes | no
```

• doc

grep -r BOOPRO /usr/share
*# vim /usr/share/doc/initscripts/sysconfig.txt

• man

man -k ifcfg
*# man nm-settings-ifcfg-rh

[student@workstation ~]

```
$ lab servicemgmt-netservice start
```

[root@workstation]

```
# systemctl status chronyd
# systemctl restart chronyd
# systemctl status chronyd
```

[root@servera]

```
# systemctl status chronyd
# systemctl status chronyd

# systemctl is-enabled chronyd
# reboot

# systemctl is-active chronyd
```

[student@workstation ~]

```
$ lab servicemgmt-netservice finish
```

Configuring Network Interfaces

```
$ MANWIDTH=120 man nmcli | grep nmcli.*add
```

[student@workstation ~]

```
$ lab servicemgmt-netreview start
```

[root@servera]

```
# ip link
# nmcli con show

# nmcli con add con-name eth1 \
type ethernet \
ifname eth1

# nmcli con show

# nmcli con mod eth1 ipv4.addresses 192.168.0.1/24 \
ipv4.method manual
# cat /etc/sysconfig/network-scripts/ifcfg-eth1

# nmcli con up eth1
# ip addr show dev eth1

# ping -c 2 192.168.0.1
# echo $?

# ip route
# cat /etc/resolv.conf
```

[student@workstation ~]

```
$ lab servicemgmt-netreview finish
```

指导练习: 自动化配置服务和网络接口

- roles:
 - rhel-system-roles. network # 建议
- -m shell -a 'nmcli ...'
- -m nmcli -a '...' # 不建议,需要额外安装相应依赖包pkg

[student@workstation]

```
$ lab servicemgmt-automation start
```

\$ ansible-playbook confignet.yml

[student@workstation]

\$ lab servicemgmt-automation finish

2 配置网络聚合 配置网络Team

- 同一个服务, 多个网卡, 多个IP
- 多个网卡,对应同一个IP
 - 带宽增加
 - 。 冗余
- 管理网络Team
- 自动化网络Team

带外管理, vnc

VIP - [eth0 + eth1]

RHEL<=6 bond, RHEL>=7 team, RHEL9 bond

```
# man -k nmcli
# man nmcli-examples | grep -A 2 nmcli.*team
    $ nmcli con add type team con-name `Teaml` ifname `Teaml` config `teaml-master-
json.conf`
    $ nmcli con add type ethernet con-name Teaml-slavel ifname `eml` master `Teaml`
    $ nmcli con add type ethernet con-name Teaml-slave2 ifname `em2` master `Teaml`

# man -k team
# man teamd.conf | grep backup
    "runner": {"name": "activebackup"},
```

```
-RHEL=7
# nmcli con add \
type team \
con-name Team1 \
ifname Team1 \
config '"runner": {"name": "activebackup"}'
-RHEL=8
[root@serverb ~] privbr2/eth1+privbr2/eth2
# nmcli con add type team \
   con-name Team1 \
   ifname Team1 \
   team.runner activebackup
# nmcli con add type ethernet \
   con-name Team1-slave1 ifname eth1 master Team1
# nmcli con add type ethernet \
   con-name Team1-slave2 ifname eth2 master Team1
```

[root@servera ~] eth2

nmcli connection delete Wired\ connection\ 2

nmcli con add type ethernet ifname eth2 connection.id con-eth2 connection.autoconnect
true ipv4.method manual ipv4.addresses 10.1.1.1/8

Connection 'con-eth2' (292e1612-7d87-4677-bc43-57bd0be09d41) successfully added.

nmcli con up con-eth2

Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/33)

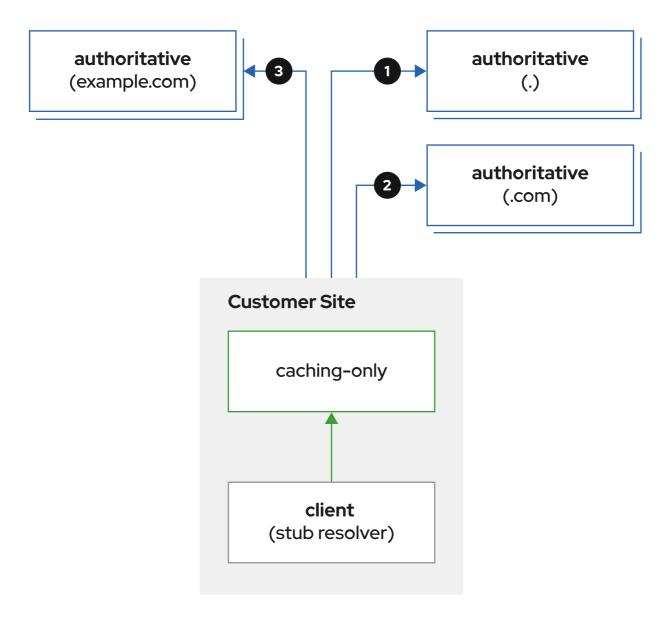
3 管理DNS和DNS服务器

- /etc/nsswitch.conf, 定义解析顺序(hosts: files/hosts dns/resolv.conf)
 - o /etc/hosts, 本地解析
 - o /etc/resolv.conf, 通过DNS服务解析
- 描述DNS服务
- 使用Unbound配置缓存名称服务器
- 排故DNS问题
 - host <u>www.mi.com</u>, host 172.25.254.250 172.25.254.254
 - nslookup <u>www.mi.com</u>,
 nslookup 172.25.254.250 172.25.254.254
 - dig <u>www.mi.com</u>,
 dig -x 172.25.254.250 @172.25.254.254
- ▶ 使用BIND 9配置权威名称服务器
- 自动化配置DNS

ID	ТҮРЕ	主配置文件*2	区域文件(正向 反向)*2	operation	PKG
1	Master	Υ	Υ	edit	bind
2	Slave	Υ	N	сору	bind
3	Cache	Υ	N	-	unbound
4	Forward	Υ	N	-	bind

```
$ hostname -s Enter
                     WWW
. 根域
com. 类别
          一级域名
mi.com.
mail.mi.com. 二级域名
 $ grep ^hosts /etc/nsswitch.conf
 hosts: files dns myhostname
 - files = hosts
 - dns = resolve.conf
 hosts
     Linux, MacOS - /etc/hosts
     Windows - C:\windows\system32\drivers\etc\hosts
  dns
     o permanent
         ■ $ nmcli con mod CN ipv4.dns 8.8.8.8
     active
         $ cat /etc/resolve.conf
domain/conf_file permission 2, file "example.com.localhost"; ,file "25.172.loopback";
       2 zone/zone_file*2 正向lab.example.com.; 反向25.172.in-addr.arpa.
              recorder
                                                   Address, 主机名解析成IP地址;
                         hostname A ip
                         反转HID PTR hostname 把向指针,IP 地址解析成主机名
                                        SOA = NS = servera.lab.example.com==.==
```

FQDN www.mi.com.



Client looking up www.example.com, no records cached.

→ iterative lookups (assuming not cached) → recursive lookups

windows dns本地存在缓存,可以全用下面的命令清除 X:\> ipconfig /flushdns

CLASS		NID	HID	zone	PTR
А	10 .1.2.3/8	10	1.2.3	10.in-addr.arpa.	3.2.1
В	172.25 .254.9/16	172.25	254.9	25.172.in-addr.arpa.	9.254
С	192.168.9 .10/24	192.168.9	10	9.168.192.in-addr.arpa.	10

DNS解析

• 递归查询,一级一级查找

4 管理DHCP和IP地址分配

● 使用DHCP配置IPv4地址分配

• 配置IPv6地址分配

• 自动化配置DHCP

场景:无线路由、PXE、网络Ghost

作用:分配网络参数,除了mac(花钱IEEE)

工作原理:客户端广播,从先应答的服务器获得IP

协议: 67/UDP, 68/UDP /etc/services

5 管理打印机和打印文件

• 配置和管理打印机

● ▶ 自动化配置打印机

client = windows, mocos

ID		
1	printer + nic	network printer server
2	os/router + printer + share	printer server
2	os/windows + printer + share	printer server
2	os/mac + printer + share	printer server
2	os/linux + printer + share	printer server

```
-631
# grep Listen /etc/cups/cupsd.conf
Listen localhost:631
Listen /var/run/cups/cups.sock

-ipp
# grep -w 631 /etc/services
ipp 631/tcp # Internet Printing Protocol
ipp 631/udp # Internet Printing Protocol
-lp...
# man -k cup
```

6配置邮件传输

- 配置一个仅发送邮件服务器
- | 自动配置Postfix

	Windows	Linux	
MTA Mail Transport Agent	Microssoft/Exchange, IBM/Domino	RHEL8 postfix RHEL<=7 sendmail qmail IBM/Domino	邮局
MDA mail delivery agents			邮递员
MUA mail user agent	outlook, foxmail	GUI: evolution, thunderbird CLI: mail , mutt	客户

	PROTOCOL	PORT	SSL	Package	
发送	smtp	25	urd 465	postfix	
接收	imap	143	imaps 993	dovecot	同步sync
接收	pop3	110	pop3 995	dovecot	拷贝copy

7配置MariaDB SQL数据库

- 安装MariaDB数据库
- ► MariaDB中SQL管理
- ► MariaDB用户和访问权限
- 备份和▶ 恢复MariaDB
- 自动化部署MariaDB

mysql -=> mariadb

• 关系型数据库(有关系的表格) oracle, oracle-mysql, mariadb, db2, sql-server

• 非关系型数据库(Key=value) redis, memcache

SQL	COMMENT	CMD (help CMD;)
DDL	数据定义语言(结构)	create, alter, drop, show, use, DESCRIBE
DML	数据 操纵 语言(内容)	select, insert, update, delete
DCL	数据 控制 语言(权限)	grant , revoke

8配置Web服务器

- ▶ 使用Apache HTTPD配置一个基本Web服务器
- 使用Apache HTTPD配置和排故虚拟主机
- ▶配置Apache HTTPD HTTPS
- 使用Nginx配置一个Web服务器
- 自动化配置Web服务器

⚠️ 当存在虚拟主机时,第一个虚拟主机会覆盖默认的web站点

TYPE	PKG	URL	name ip port	
http	httpd	http://www0.lab.example.com	基于 名称 的 虚拟主机	80
vhost	httpd	http://webapp0.lab.example.com	基于 名称 的 虚拟主机	80
https	mod_ssl	https://www0.lab.example.com	基于 端口 的 虚拟主机	443
permission	http_manual	http://www0.lab.example.com/manual	权限	

密文	明文	公钥 == Locker	私钥 == Key
https	http + ssl	/PATH/*.crt	/PATH/*.key
ssh	telnet	~/.ssh/id_rsa.pub	~/.ssh/id_rsa

	优点	缺点	
apache	稳定,组件多	重量	LAMP
nginx	反向代理,轻量		LNMP

Client Server

https (cert+key)

ID	自签名证书	公共证书
1	通过命令(openssl)直接生成	申请
2	免费(默认1年,可改)	收费,免费(3月)
3	测试	生产
4	无网络	需要 internet

9 调整Web服务器流量

- 使用Varnish缓存静态内容
- 使用HAProxy终止HTTPS流量和配置负载均衡
- 自动化调整Web服务

10 提前基于文件的网络存储

- 导出NFS文件系统 Like Linux
- 提供SMB文件共享 跨平台 Windows
- 自动化提供文件存储

NAME			Windows	Linux	TYPE	
NAS	Network Attached Storage	网络附加存储	samba(SMB)	nfs	dir	远程
SAN	Storage Area Network	存储区域网络	target / iSCSI	同前	block	远程
DAS	Dirctor Attached Storage	直连附加存储				本地

SERVICE	SAMBA	NFS
NAS	directory	directory
OS	windows	Like Unix
Permission	user	ip, network, hostname, domain
conf	/etc/samba/smb.cfg	/etc/exports
sharename	[custom]	/path
Pkg	samba / DAEMON, samba-common / conf, samba-client / smbclient	nfs-utils
fstab/filesystem	cifs (cifs-utils)	nfs
DAEMON	smb/SERVICE, nmb/NAME	nfs-server, nfs-secure-server / RHEL>=7, nfs, nfs-secure / RHEL<7
firewall	samba	nfs -=> # mount, [port-mapper/ rpc-bind , mountd] -=> \$ showmount
Client-cmd	smbclient - like ftp interactive	-
autofs	Yes	Yes

	Windows	Linux	QUOTA	PERM
Local	ntfs	ext4, xfs	Υ	Υ
Remote	cifs	nfs	N	Υ

• samba

ID	共享				smbclient
1	共享级	share	win98		
2	用户级	user	winxp	Everyone tom, jerry	-L -N -U tom%password
3	server级共享	server	ldap		
3	域级共享	domain	AD		

```
Windows 切换身份
m1 X:\> net use * /del
m2 注销
m3 重启
```

fuse-sshfs

os	LOCAL: user	LAN: samba user
Windows	tom%ttt	tom%ttt
Linux	tom%-	tommy%tmm

11 访问基于块的网络存储

- 提供iSCSI存储
- 访问iSCSI存储
- 自动化配置iSCSI Initiator

	Client	Server
SAN / block	iscsi	target
CMD	iscsiadm	targetcli / ls
	iscsiadm	block
	Isblk	iscsi - block
	fstab / _netdev	iscsi - port
acl	/etc/iscsi/init*	iscsi - acl
True	iscsid	target
False	iscsi	targetd

```
# iscsiadm --mode session -P 3
```

附录

A0. 4步技巧

ID		
1	word	释意
2	Tab	前2-3个字母
3	man	help
4	echo \$?	== 0

A1. 红帽

ID	URL	说明
RH358	红帽服务管理与自动化	课程代码
EX358	红帽认证服务管理和自动化专家考试	考试代码

A2. 软件

1	VMware	虚拟机
2	<u>Typora</u>	Markdown
3	Xmind	思维导图
4	<u>Snipaste</u>	截图

A3. 培训环境

```
$ cat /etc/rht
RHT_COURSE=rh358
RHT_TITLE="Management and Automation of Linux Network Services (RH358)"
RHT_VMS="bastion workstation servera serverb serverc serverd"
RHT_VM0="classroom"
```

虚拟机	主机名	功能	必须	root	User
VMware	foundation	平台	1	Asimov	kiosk%redhat
KVM	classroom	功能服务器	1	Asimov	instructor%Asimov
KVM	bastion	router	1	redhat	student%student
KVM	workstation	GUI	0	redhat	student%student
KVM	server{ad}	CLI	0	redhat	student%student

```
$ rht-vmctl start classroom
$ rht-vmctl start bastion
$ rht-vmctl start workstation
$ rht-vmctl start servera

$ ping -c 4 workstation
$ ssh root@workstation
```

```
$ ls /content/slides/
```

A4. yaml

```
$ ansible-doc -1 | grep keyword
$ ansible-doc module-name
/EX
$ ansible-playbook x.yml
```

- --- 第一行,可省略
- 使用缩进表示层级关系, :上一级以冒号结尾
- 默认只允许空格,缩进不允许使用tab(可以编辑vimrc后支持)
- 缩进的空格数不重要,只要相同层级的元素左对齐即可(默认两个空格)
- #表示注释
- key:空格 value

```
# tail -n 1 /etc/bashrc
# vim
:set all
:help tabstop

# ls /etc/vimrc ~/.vimrc

$ cat > ~/.vimrc <<EOF
set number ts=2 et cuc sw=2
EOF</pre>
```

- ▽当前行
- G Go跳到最后一行
- > 右缩进(sw=2)

A5. service

STEP	CMD	COMMENT	DNS	DHCP
1	nmcli nmtui	网络		
2	hostnamectl	主机名		
3	yum search KEYWORD	查安装包名	dns	dhcp
samba, nfs	chmod, chown, setfacl	权限-文件系统(1/4)		
4	yum -y install PKG	安装软件	bind	dhcp-server
5	rpm -qc PKG man -k nfs	查配置文件	bind	dhcp-server
6	vim /etc/cfg(sec_service)	编辑(安全1/4)	/etc/named.conf	/etc/dhcp/dhcpd.conf
7	rpm -ql PKG grep service systemctl list-unit-files grep KEYWORD	查守护进程	bind	dhcp-server
8	systemctl enablenow DAEMON systemctl restart DAEMON	开机自启,立即启动 配置文件修改后,服务重启生效	named	dhcpd
9	firewall-cmdpermanentadd-service add-port, firewall-cmdreload(sec_port)	防火墙(安全1/4)		
10	selinux(1/4)	文件系统-上下文关系 服务安全-布尔值 端口安全-端口标签		

A6. OBJECTIVE: SCORE

```
Manage Network Services: 87%
Manage Firewall Services: 100%
Manage SELinux: 100%
Manage DNS: 0%
Manage DHCP: 100%
Manage printers: 33%
Manage Email services: 100%
Manage a MariaDB database server: 100%
Manage HTTPD web access: 100%
Manage iSCSI: 50%
Manage NFS: 100%
Manage SMB: 75%
Use Ansible to Configure Standard Services: 80%
```

A7. 学习技巧

- word
- Tab 补全, Tab Tab 列出

```
# man command
```

echo \$?

A8. VMware+software

```
# yum -y install \
open-vm-tools-desktop.x86_64 \
xorg-x11-drv-vmware.x86_64
```

A9. ansible

- configure
 - inventory
- playbook
 - o module

[student@workstation]

```
查询安装包名称, 确认是否安装
$ yum search ansible
$ yum list ansible
query config 查找默认的配置文件和主机清单
$ rpm -qc ansible
/etc/ansible/ansible.cfg
/etc/ansible/hosts
确认四种生效的方式,以及优先级。考试时: 当前目录的优先级
$ head /etc/ansible/ansible.cfg
1 export ANSIBLE_CONFIG=...
*2 ./ansible.cfg
3 ~/.ansible.cfg
4 /etc/ansible/ansible.cfg
$ mkdir playbook
$ cd playbook/
$ cp /etc/ansible/ansible.cfg .
确认生效的配置文件
$ ansible --version
$ vim /home/student/playbook/ansible.cfg
inventory
             = /home/student/playbook/inventory
$ cp /etc/ansible/hosts inventory
$ vim inventory
...输出省略...
serverc
serverd
确认生效的主机清单
$ ansible-inventory --graph
@all:
```

module

- command(id, hostname)
- shell(*,|)
- setup(facts)
- debug(echo)
- stat(when)

权限

```
$ ansible-doc -h

$ ansible-doc -t connection -1
$ ansible-doc -t connection ssh

$ ansible-doc -t become -1
$ ansible-doc -t become sudo
```

- Root
 - ansible.cfg/remote_user
 - o Inventory/ansible_password

```
$ sshpass -p redhat ssh root@localhost id
```

```
$ cat ansible.cfg
inventory = hosts
host_key_checking = False
remote_user = root
#become=True

$ cat hosts
workstation ansible_password=redhat

$ ansible workstation -a id
workstation | CHANGED | rc=0 >>
uid=0(root) gid=0(root) groups=0(root) ...
```

- User -=> root%redhat
 - ansible.cfg/#remote_user == \$USER
 - o inventory/ansible_password
 - o ansible.cfg/become=True

[student@bastion ~]

```
$ sshpass -p student ssh $USER@workstation "echo student | sudo -S id"
[sudo] password for student: uid=0(root) gid=0(root) groups=0(root)
context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
```

```
$ cat ansible.cfg
inventory = hosts
host_key_checking = False
#remote_user = root
become=True

$ cat hosts
workstation ansible_password=student ansible_become_password=student

$ ansible workstation -a id
workstation | CHANGED | rc=0 >>
uid=0(root) gid=0(root) groups=0(root) context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
```

A10. vim

```
4gg:4
Ctrl-v block visual
G Go end
I Insert
```

```
sw=shift
cursorcolumn = 查看列对齐
cursorline = 查看水平对齐
$ echo set number sw=2 ts=2 et cursorcolumn cursorline > ~/.vimrc
```

4

```
Shfit - v
```

G

```
Shift - >
```

. 重复上一次操作

ID		
1	u	Undo
2	5 g g	Go
3	Ctrl - V	Virtual block
4	j*n	
5	I	III12iii <u>3</u> aaa456AAA
6	Esc	
7	0	Open
8	x	

A11. 培训环境 2 练习环境

VMware配置建议修改

- <u>CPU</u> * ==8==, 根据物理机CPU, 相等即可
- MEM * ==8G==。根据物理机MEM=8GB,设置6GB,最小4GB

foundation确认是否为 20年08月04日 版本

```
$ ls /content/manifests/
RH358-RHEL8.1-1.r2020080409-ILT+RAV-7-en_US.icmf
```

STEP	说明	
1	VMware恢复快照 INIT	Cpu + Mem
2	启动虚拟机	
3	光驱插入 ex358.iso, 同时复选 连接CD/DVD驱动器	
4	执行脚本 \$ /run/media/kiosk/ex358/exam-setup.sh	kiosk@foundaiton0 开始布署,约6分钟
5	\$ echo > /home/kiosk/.ssh/known hosts && ssh root@localhost systemctl poweroff	关机
6	做快照	名称 EX358
7	开机	

```
$ rht-vmctl status classroom
classroom RUNNING
$ rht-vmctl status all
bastion DEFINED
workstation DEFINED
servera DEFINED
serverb DEFINED
serverc DEFINED
serverd DEFINED
*$ rht-vmctl start bastion
-CMD
*$ rht-vmctl start servera
*$ rht-vmctl start serverb
-ANSIBLE
*$ rht-vmctl start workstation
*$ rht-vmctl start serverc
*$ rht-vmctl start serverd
```

A12. PC+VMware

os		
win7	VMware-workstation-full-15.5.7	1、删除快照 2、改兼容性 3、改CPU+MEM
win>=8	VMware-workstation-full-16.1.2	

CPU: AMD

foundation 8.0 +RH358

foundation 8.2

A13. 培训环境 KVM 快照

```
KVM自动关机,然后快照
$ rht-vmctl save all
查看快照
$ rht-vmctl listsaves all
确认恢复开机快照
$ rht-vmctl restore all -y
```

A14. 权限

ID	TYPE	BASE	ENHANCED
B1	filesystem	# ls -ld / var/www/html/	# Is -ldZ /var/www/html/ drwxr-xr-x. 2 root root system_u:object_r:==httpd_sys_content_t==:s0 6 Sep 2 2019 /var/www/html/
B2	service	134 < Directory "/var/www/html"> 147 Options Indexes FollowSymLinks 154 AllowOverride None 159 # == Require all granted == Require host lab.example.com Require not host lab.example.org	# getsebool -a grep http
В3	firewall	# firewall-cmdpermanentadd- service=http # firewall-cmdreload	# semanage port -l grep -w 80 http_port_t tcp 80, 81, 443, 488, 8008, 8009, 8443, 9000
E4	selinux	# getenforce Enforcing	

A15. 使用U盘布署培训环境

STEP		
1	下载==U_128G.vmdk==	群公告/培训环境安装U盘
2	VMware虚拟机,关机状态下添加 已有 磁盘,总线类型 SATA	
3	启动虚拟机	
4	\$ ==su -== Asimov	
5	# lsblk sda	确认U_128G,在系统中的磁盘名 称
6	插入==64GB==优盘	
7	# lsblk sdb	确认优秀,在系统中的磁盘名称
8	# dd if=/dev/sda of=/dev/sdb	等一会儿

STEP	
1	物理机优盘启动
2	f0 rh358
3	指明时区