

LFCS_Module6_ServiceConfiguration Cheat Sheet

Configure Postfix

by nhatlong0605 via cheatography.com/68292/cs/17258/

Web Services	
systemctl start httpd	Start the Apache web service
vim /etc/httpd/conf/httpd.conf	Main config file for Apache
/etc/httpd/conf.d	Additional config, drop any additional here

Addtional config

Squid Proxy

/etc/httpd/conf.modules.d

```
yum install squid
vim /etc/squid/squid.conf
systemctl enable --now squid
#Configure browser
Preferences -> Advanced -> Network -> Settings ->
Manual: 192.168.4.240 port 3128
```

Virtual Hosts

- vim /etc/hosts; Create name resolution
- cd /etc/httpd/conf.d/; vim account.example.com.conf : Create virtual host w/ content
- <VirtualHost *:80>

ServerAdmin webmaster@account.example.com

DocumentRoot /web/account

ServerName account.example.com

</VirtualHost>

- mkdir /web/account; cd /web/account; vim index.html : Create index file

FTP Server	
yum install vsftpd	Install Very Secure ftp
/etc/vsftpd	Main config file
yum install Iftp	Install ftp client
Iftp localhost	Connect to ftp

#Email delivery vim /etc/postfix/main.cf relayhost = [192.168.4.200] relay_domains = \$mydestination #Email Receiving vim /etc/postfix/main.cf myorigin = \$myhostname mynetworks = 192.168.0.0/16 inet_protocols = ipv4 inet_interfaces = all mydestination =, hash:/etc/postfix/transport #setting transport

Configure an IMAP service

vim /etc/postfix/transport

example.com local:
.example.com local:

#update transport table

postmap /etc/postfix/transport

```
yum install dovecot
vim /etc/dovecot.conf
protocols = imap pop3
vim /etc/dovecot/conf.d/10-mail.conf
mail_location = mbox:~/mail:INBOX=/var/mail/%u
mail_privileged_group = mail
vim /etc/dovecot/conf.d/10-ssl.conf
ssl_cert = </etc/pki/dovecot/certs/dovecot.pem
ssl_key = </etc/pki/dovecot/private/dovecot.pem
dovecot -n</pre>
```

Message Transport Agent – MTA: mail relay, Postfix Mail User Agent – MUA: Gmail, Outbook, Thunderbird Mail Delivery Agent - MDA: Dovecot



By nhatlong0605

Published 27th September, 2018. Last updated 16th November, 2018. Page 1 of 3. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords! http://crosswordcheats.com

cheatography.com/nhatlong0605/



LFCS_Module6_ServiceConfiguration Cheat Sheet

by nhatlong0605 via cheatography.com/68292/cs/17258/

Setting Up Email Services

```
#Email aliases
vim /etc/postfix/aliases
  user1: user1, user2
postalias /etc/postfix/aliases reload configuration
#parameters
myorigin
inet_interfaces = yourIP, localhost
mydestination = $myhostname, localhost.$mydomain,
localhost, $mydomain
#Send email to test
echo "This is a test" | mail -s "test"
root@example.com
#Check
mail
```

Cache-only DNS Server

Database	
yum install mariadb	Install Mariadb
mysql_secure_installation	Interactive setup for Mysql
mysql -u root -p	Login mysql using root
create database dbname	Create database
use people; create table users(firstname varchar(20),);	Create table
insert into user() values();	Insert values
select * from users	Show table

Configure NFS Server

```
mkdir /nfsshare (Create folder for NFS)
chown nfsnobody:nfsnobody /nfsshare (Change owner to
special nfsnobody user)
chmod 755 /nfsshare
vim /etc/exports
 /share *(rw,no_root_squash)
systemctl enable --now nfs-server
systemctl enable --now rpcbind
systemctl enable --now nfs-idmap
#Mounting NFS Share persistently
ssh into remote client
yum install nfs-utils (install nfs utilities)
mkdir -p /mnt/remote (Create mount point)
mount -t nfs ServerIP:/share /mnt/remote (Mount)
vim /etc/fstab
  #centos:/share /centos/nfs nfs _netdev 0 0\
umount /centos/nfs
mount -a
```



By nhatlong0605

Published 27th September, 2018. Last updated 16th November, 2018. Page 2 of 3. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords! http://crosswordcheats.com

cheatography.com/nhatlong0605/



LFCS_Module6_ServiceConfiguration Cheat Sheet

by nhatlong0605 via cheatography.com/68292/cs/17258/

Configure Samba Server

```
yum install samba
mv /etc/samb/smb.conf.example /etc/samba/smb.conf
(Overwrite)
vim /etc/samba/smb.conf (Create a samba share)
  [share]
            comment = samba share
            path = /samba
            public = yes
mkdir /samba
semanage fcontext -a -t samba_share_t /samba
restorecon -Rv /samba
systemctl start smb
#Create samba user
smbpasswd -a anna
#smb client
yum install smbclient
smbclient -L localhost
#Mount smb persistently
mount -o username=anna //centos/share /mnt
yum install clifs-utils (Install additonal utils)
mkdfir /centos/samba
vim /etc/fstab
  //centos/samba /centos/samba cifs
  _netdev,username=anna,password=password 0 0
```

KVM

```
yum group install "Virtualization Host" or yum install
qemu-kvm libvirt libvirt-client virt-install virt-
viewer virt-manager
systemctl start libvirtd
virt (Start Virtual manger)
#
virsh list (Show available VMs)
```

KVM (cont)

```
virsh list --all (Show all VMs)
virsh start VM name
virsh stop VM name
virsh autostart VM name (Autostart after the host
reboot)
virsh autostart --disable VMname (Disable autostart)
virt-install --name=VM1 --vcpus=1 --memory=1024 --
cdrom=isoimage
virsh edit VM1 (Edit VM1 virtual machine)
virt-clone --original=VM1 --name=VM2 --
file=/var/lib/libviages/VM1.qcow2
```

Managing Docker containers

```
# Install packages
yum install -y yum-utils device-mapper-persistent-data
#Setup stable Docker repo
yum-config-manager --add-repo
https://download.docker.com/linux/centos/docker-ce.repo
#Install Docker CE
yum install docker-ce
#Start Docker service
systemctl start docker
docker search hello
docker pull hello-world
docker run hello-world
docker images (check available images)
docker ps -a (Check all containers)
docker start id (Start specific container)
docker run -it ubuntu bash (Run bash shell inside
docker run -dit --name la-test-web -p 80:80 -v
/home/long/webstuff/:/usr/local/apache2/htdocs/httpd:2
.4 (Create a container for running web server)
docker rm la-test-web (Remove container la-test-web)
```



By nhatlong0605

Published 27th September, 2018. Last updated 16th November, 2018. Page 3 of 3. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords! http://crosswordcheats.com

cheatography.com/nhatlong0605/