How to configure KICKSTART server

1. Disable SELinux & firewall

#setenforce 0

2. Create directory

#mkdir /var/www/html/kickstart

---copy rhel7 dvd rom contents in it.---

#cp /run/media/root/RHEL7...(cd name) /var/www/html/kickstart

OR

[root@/run/media/root/RHEL7...(cd name)] #cp -var \* /var/www/html/kickstart

3. configuring DHCP server

a. DHCP - system should hv a static ip

b. Install dhcp server

c. Configuration of DHCP file

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#vim /etc/dhcp/dhcpd.conf

Allow booting;

Allow bootp;

authoritative;

subnet 192.168.0.0 netmask 255.255.255.0{

default-lease-time 21600;

max-lease-time 43200;

range dynamic-bootp 192.168.0.101 192.168.0.200;

filename "pxelinux.0";

next-server 192.168.0.1;

}

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d. Enabling DHCP

#systemctl enable dhcpd // enabling dhcp

#systemctl start dhcpd // starting dhcp

#systemctl status dhcpd // checking status of dhcp

4. Create an answer file "ks.cfg"

install - #yum install system-config-kickstart

& save it in "/var/www/html/kickstart" directory

now run system-config-kickstart

#system-config-kickstart

GUI will be opened

a. select default on page 1 - basic configuration

b. install method -

http

server - 192.168.0.1

directory - kickstart

c. bootloader

install new boot loader

d. partition info

donot clean MBR

remove all exss..

layout...

e. network configuration

add nw device

eno16777736

f. firewall

disable all

g. ...

save it in

**/var/www/html/kickstart** path

5. Configure Apache web server to export "ks.cfg" file to target system

#yum install httpd //install apache server

#vim /etc/httpd/conf/httpd.conf //apache conf file

:set nu

at line 86

*edit ->*  ServerAdmin root@192.168.0.1

at line 96

add ServerAdmin 192.168.0.1:80

at line 164

cursor at 'i'ndex.html, add ks.cfg in between 'DirectoryIndex' & 'index.html'

**DirectoryIndex ks.cfg index.html**

#systemctl enable httpd

#systemctl start httpd

#systemctl status httpd

application -> firefox web

type in url - http://192.168.0.1/kickstart

ks.cfg page will appear

minimize browser

& install remaining packages, which are left at "step 4, point g"

#vim /root/anaconda-ks.cfg

:set nu

:35,76 w >> /var/www/html/kickstart/ks.cfg

//copy packages to ks.cfg file from line 35 (start package line) to 76 (package ending line)

refresh the browser, all the packages will be list at the end

6. Configure TFTP server

#yum install tftp-server

#mkdir /var/lib/tftpboot/pxelinux.cfg

#cp /usr/share/syslinux/pxelinux.0 /var/lib/tftpboot

#systemctl enable tftp.socket

#systemctl start tftp.socket

#systemctl status tftp.socket

// tftp.socket is renamed in RHEL7, previsouly in RHEL6 was tftp

7. configure PXE boot environment

#mkdir /var/pxe

#ln -s /var/www/html/kickstart /var/pxe/kickstart

#mkdir /var/lib/tftpboot/kickstart

copy vmlinuz & initrd.img to other dir

#cp /var/pxe/kickstart/images/pxeboot/vmlinuz /var/lib/tftpboot/kickstart

#cp /var/pxe/kickstart/images/pxeboot/initrd.img /var/lib/tftpboot/kickstart

8. Setup banner for target systems

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#vim /var/lib/tftpboot/pxelinux.cfg/default

timeout 1000 //sec

default menu.c32

menu title == Boot Menu ==

label 1

menu label ^ 1) Rhel Installation

kernel kickstart/vmlinuz

append initrd=kickstart/initrd.img ks=http://192.168.0.1/kickstart

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#cp /usr/share/syslinux/menu.c32 /var/lib/tftpboot

#iptables -F //flushing IPv4

#ip6tables -F //flushing IPv6

===================KICKSTART SERVER DONE===================