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;

                }

    ****

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

JEETU | Kickstart

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==================