PXE Server Setup

nkdix -p /tftpboot/pxe_boot_image/
8. Mount installation DVD, CD, or .ISO to suitable mount point (example: /media). Make /fftpboot directory, and enable all users to read, write, and execute from it. Create a directory for base image under /tftpboot. Create directory for PXE menus. 5. Install SYSLINUX, and copy pxelinux.0 to /fftpboot. Start TFTP service. 2. Enable TFTP by changing "disable = yes" to "disable = no" in /etc/xinetd.d/fftp. Install TFTP software on machine that will be PXE server. mkdir cp /usr/lib/syslinux/pxelinux.0 /tftpboot CD or DVD: mount -t iso9660 -o ro /media mkdir /tftpboot service xinetd restart vi /etc/xinetd.d/tftp yum install tftp-server server_args = -s /tftpboot disable = no tftpboot/pxelinux.cfg

.ISO: mount -o loop <filepath>/<disc-name>.iso /media
9. Copy vmlinuz and initud.img from /images/pxeboot/ on OS installation disc, to
base image directory.

cp_/media/images/pxeboot/*-/tftpboot/pxe_boot_image/
10. Create file //fipboot/pxe/lmux.cfg/default and add following bootloader configuration.

Be careful: the kernel name is "vmlinuz."

vi /tftpboot/pxellnux.cfg/default

11. Install HTTP server software.

yum install httpd
12. Start HTTP server.
service httpd stal

service httpd start

13. Copy entire installation disc to HTTP root directory; might take a few seconds.

mkdir /var/www/html/<05-image-filename>

op -R /media/* /var/www/html/<05-image-filename>/

Create kickstart file using system-config-kickstart tool; example on right.

Disable SELinux in kickstart.

/user/bin/system-config-kickstart

If kickstart tool not installed, install using yum.

yum install system-config-kickstart

yum install system-config-kickstart

15. Save kickstart file as ks.ofg to /var/www/html/<0S-image-filename>/

Note: Red colored variables should be customized to your environment

PXE Server Setup (continued)

@legacy-network-server @text-internet "editors @graphical-internet @network-server @web-server @base @development-tools skipx timezone spackages # Do not configure the X Window System selinux --disabled rootpw --iscrypted \$1\$iGgDdKAB\$/wOFkmJ23pllinmT30Lt41 # Reboot after installation network --bootproto=dhcp --device=eth0 --onboot=on url --url=http://<pxe-server-ip>/<OS-image-filename> #Root password # Network information # Use network installation # System language firstboot --disable # Run the Setup Agent on first boot clearpart --all --initlabel : Install OS instead of upgrade SELinux configuration logging --level=info Installation logging level keyboard us # System keyboard firewall --disabled # Firewall configuration # Use text mode install # Partition clearing information # Clear the Master Boot Record bootloader --append="console=ttyS0,9600n8" --location=mbr System timezone #platform=x86, AMD64, or Intel EM64T $_{_{\mathrm{m}}}^{*}$ Example kickstart generated by system-config-kickstart.. System bootloader configuration System authorization information --useshadow --enablemd5 America/Los_Angeles

DHCP Setup

Start the DHCP service. touch /var/lib/dhcpd/dhcpd.leases
3. Configure DHCP in the file /etc/dhcp.conf. yum install dhcp

2. Create the file /var/lib/dhcpd/dhcpd.leases. Install DHCP software on machine that will be DHCP server. service dhcpd start vi /etc/dhcpd.conf max-lease-time 43200; default-lease-time 21600; subnet <ip-address> netmask <decimal-mask> option option-128 code 128 = string; option option-129 code 129 = text; # /etc/dhcpd.conf filename "pxelinux.0"; next-server <pxe-server-ip>; allow bootp; allow ddns-update-style interim; option broadcast-address <subnet-broadcast-ip> option subnet-mask <subnet-mask>; range <low-ip-add> <hi-ip-add>; option routers <default-gateway>; booting;

Required: serve addresses from subnet, /22 recommended. range must exclude addresses assigned elsewhere (i.e inband IP, gateway, relay agent)

Note: Red colored variables should be customized to your environment

Note: You may copy/paste this example into ks.cfg. Red colored variables should be customized to your environment. For RHEL, you must add the line "key --skip."