PXE Boot

DHCP   .

  * [DHCP](#)

```
yum install tftp-server syslinux
```

```
# tftp              (/usr/share/syslinux/*        )
/var/lib/tftpboot

# pxe
/var/lib/tftpboot/pxelinux.cfg/default
/var/lib/tftpboot/pxelinux.cfg/logo.png

# ISO
/var/lib/tftpboot/RHEL/7.3/x64 -> /ISO/rhel-server-7.3-x86_64-dvd.iso #
Symbolic Link
/var/lib/tftpboot/RHEL/6.8/x64 -> /ISO/rhel-server-6.8-x86_64-dvd.iso #
Symbolic Link
/var/lib/tftpboot/RHEL/5.11/x64 -> /ISO/rhel-server-5.11-x86_64-dvd.iso #
Symbolic Link
```

httpd   .

  * httpd

```
yum install httpd
```

  * Repository

```
Alias   /rhel/7.3/x64/    /var/lib/tftpboot/RHEL/7.3/x64/

<Directory "/var/lib/tftpboot">
    Options Indexes FollowSymLinks
    AllowOverride None
```

```
    Order allow,deny
    Allow from all
</Directory>
```

PXE Boot Menu

```
DEFAULT vesamenu.c32
TIMEOUT 600

#
PROMPT          0
#
NOESCAPE        1
#
ALLOWOPTIONS        1
#
ONTIMEOUT       BootLocal


#
MENU TITLE      LinuxDataSystem PXE


#
MENU VSHIFT     3
#
MENU WIDTH      50
#
MENU ROWS       10
#
MENU MARGIN     10
#
MENU TABMSGROW      15
#
MENU TIMEOUTROW     16


# # # # #
MENU COLOR BORDER   30;44    #00000000 #00000000 none
MENU COLOR SCROLLBAR    30;44     #00000000 #00000000 none
MENU COLOR TITLE    0    #ffffffff #00000000 none
MENU COLOR SEL      30;47    #40000000 #ffffffff


#
MENU BACKGROUND     pxelinux.cfg/logo.png


LABEL BootLocal
    MENU LABEL Boot from local HDD
        localboot 0
        TEXT HELP
    Boot to local hard disk
        ENDTEXT

MENU BEGIN Redhat Enterprise Linux
```

```
MENU TITLE Redhat Enterprise Linux
        LABEL Previous
        MENU LABEL Previous Menu
        TEXT HELP
    Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE RHEL/RHEL.menu
MENU END

MENU BEGIN CentOS
MENU TITLE CentOS
        LABEL Previous
MENU LABEL Previous Menu
        TEXT HELP
        Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE CentOS/CentOS.menu
MENU END

MENU BEGIN Fedora
MENU TITLE Fedora
        LABEL Previous
        MENU LABEL Previous Menu
        TEXT HELP
        Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE Fedora/Fedora.menu
MENU END

MENU BEGIN Debian
MENU TITLE Debian
        LABEL Previous
        MENU LABEL Previous Menu
        TEXT HELP
        Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE Debian/Debian.menu
MENU END

MENU BEGIN Ubuntu
MENU TITLE Ubuntu
        LABEL Previous
        MENU LABEL Previous Menu
```

```
        TEXT HELP
        Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE Ubuntu/Ubuntu.menu
MENU END

MENU BEGIN openSUSE
MENU TITLE openSUSE
        LABEL Previous
        MENU LABEL Previous Menu
        TEXT HELP
        Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE openSUSE/openSUSE.menu
MENU END

MENU BEGIN VMware
MENU TITLE VMware
        LABEL Previous
        MENU LABEL Previous Menu
        TEXT HELP
        Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE VMware/VMware.menu
MENU END

MENU BEGIN Tools and Utilities
MENU TITLE Tools and Utilities
        LABEL Previous
        MENU LABEL Previous Menu
        TEXT HELP
        Return to previous menu
        ENDTEXT
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE UTIL/UTIL.menu
MENU END

MENU BEGIN DOS Based
MENU TITLE DOS Based
        LABEL Previous
        MENU LABEL Previous Menu
        TEXT HELP
        Return to previous menu
        ENDTEXT
```

```
        MENU EXIT
        MENU SEPARATOR
        MENU INCLUDE DOS/DOS.menu
MENU END
```

ISO   . repository   http
repository   .

```
LABEL 3
        MENU LABEL RHEL 7.3 (64-bit)
        KERNEL RHEL/7.3/x64/isolinux/vmlinuz
    append initrd=RHEL/7.3/x64/isolinux/initrd.img
repo=http://192.168.222.254/rhel/7.3/x64 devfs=nomount ip=dhcp
        TEXT HELP
        Install RHEL 7.3 (64-bit)
        ENDTEXT
LABEL 2
        MENU LABEL RHEL 6.8 (64-bit)
        KERNEL RHEL/6.8/x64/vmlinuz
        append initrd=RHEL/6.8/x64/initrd.img
repo=http://192.168.222.254/rhel/6.8/x64 devfs=nomount ip=dhcp
        TEXT HELP
        Install RHEL 6.8 (64-bit)
        ENDTEXT
LABEL 1
        MENU LABEL RHEL 5.11 (64-bit)
        KERNEL RHEL/5.11/x64/vmlinuz
        append initrd=RHEL/5.11/x64/initrd.img
repo=http://192.168.222.254/rhel/5.11/x64 devfs=nomount ip=dhcp
        TEXT HELP
        Install RHEL 5.11 (64-bit)
        ENDTEXT
```

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