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PXE Boot

— 2017/02/07 09:09

DHCP가

- DHCP

```
[root@dlp ~]# yum install tftp-server syslinux xinetd
# PXE syslinux tftpboot
[root@dlp ~]# mkdir /var/lib/tftpboot/pxelinux.cfg
[root@dlp ~]# cp /usr/share/syslinux/pxelinux.0 /var/lib/tftpboot/
```

tftp

```
[root@dlp ~]# vi /etc/xinetd.d/tftp
# line 14: change
disable = no

[root@dlp ~]# systemctl start xinetd
[root@dlp ~]# systemctl enable xinetd
```

가

```
# 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
```

http

httpd

- httpd

```
yum install httpd
```

- Repository

```
/etc/httpd/conf.d/repo.conf
```

```
Alias /rhel/ /var/lib/tftpboot/RHEL/
Alias /centos/ /var/lib/tftpboot/CentOS/
Alias /fedora/ /var/lib/tftpboot/Fedora/
Alias /debian/ /var/lib/tftpboot/Debian/
Alias /ubuntu/ /var/lib/tftpboot/Ubuntu/
```

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

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

PXE Boot Menu

```
pxelinux.cfg/default
```

```
DEFAULT vesamenu.c32
TIMEOUT 600

#          가
PROMPT          0
#          가
NOESCAPE        1
#          가
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 . repository http

- RHEL6 : repo=<repository>
- RHEL5 : method=<repository>

RHEL/RHEL.menu

```
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/isolinux/vmlinuz
    append initrd=RHEL/6.8/x64/isolinux/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/isolinux/vmlinuz
    append initrd=RHEL/5.11/x64/isolinux/initrd.img
method=http://192.168.222.254/rhel/5.11/x64 devfs=nomount ip=dhcp
    TEXT HELP
    Install RHEL 5.11 (64-bit)
    ENDTEXT
```

- [logo.png](#)

- https://www.server-world.info/en/note?os=CentOS_Stream_8&p=pxe&f=1

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