

RHEL 5.5 on DL360 G6

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Summary

This report describes the installation RHEL 5.5 on a DL360 G6. The goal is to work with RH virtualization, therefore I only consider RH releases that are KVM-compatible.

This release is certified on DL360 G6.

The system has been installed over PXE, and using a RHEL 4 AS laptop as installation server exporting the installation files with NFS. The following paragraphs provide an overview of the services that need to be configured and started on the installation server. The main sources of information are:

1. RHEL 5 Installation Guide
2. RHEL5 Deployment Guide

As a result, the RHEL5.5 installation completed successfully, while other methods attempting to install, from either a USB device or ilo2/virtual media failed as reported before in *rhel_instNotes.pdf*

RHEL 5.5 / media verification

Here the checksum on the ftp server and on the installation server are compared and found to be identical.

source

```
http://blofly.usa.hp.com/X86_64/RedHat/EL5/Update5/Server/MD5SUM
f3119f883257ef9041234feda2f1cad0 RHEL5.5-Server-20100322.0-x86_64-DVD.iso
```

target

```
C:\Users\PARETIJ\Documents>md5sum RHEL5.5-Server-20100322.0-x86_64-DVD.iso

f3119f883257ef9041234feda2f1cad0 *RHEL5.5-Server-20100322.0-x86_64-DVD.iso
```

PXE-based installation

Use a Linux node as PXE –based installation server, as explained in the RHEL 5 installation guide, chapter 34 “PXE Network installations”. The installation server runs RHEL 4 AS.

Installation server (pxe, tftp, nfs, dhcpd)

This is a laptop running RHEL 4 AS (32 bit)

Initialize NIC

```
# ifconfig eth0 10.0.0.1 netmask 255.255.255.0
# route add default gw 10.0.0.1 eth0

# make sure tftpd is installed and on

# /sbin/chkconfig --list | grep -i ftp
```

Mount iso file for sharing

```
# mount -o loop /joe/RHEL5.5-Server-20100322.0-x86_64-DVD.iso /media/iso
```

Configure nfs, /etc/export /media/iso with no restrictions (* option)

```
# /sbin/service nfs reload
```

pxeos

```
# pxeos -a -i "joe pass0" -p NFS -D 0 -s 10.0.0.1 -L /media/iso/ -k vmlinuz
rhel55
```

→ output: /tftpboot/linux-install/pxelinux.cfg/pxeos.xml

```
===== pxeos.xml =====
```

```
<?xml version="1.0" ?>
<OperatingSystems>
  <OS Anonymous="1" Description="joe pass0" Diskless="0" Kernel="vmlinuz" Kickstart=""
  Location="/media/iso" Name="rhel55" Password="" Protocol="NFS" Server="10.0.0.1" User=""/>
</OperatingSystems>
```

Install, configure and start dhcpd

```
#rpm -i /media/usbdisk/dhcp-3.0.1-65.EL4.i386.rpm
```

```
===== dhcpd.conf 1=====

ddns-update-style interim;
ignore client-updates;

subnet 10.0.0.0 netmask 255.255.255.0 {
}
# DHCP Server Configuration file.
# see /usr/share/doc/dhcp*/dhcpd.conf.sample
#
group {
    option routers                10.0.0.1;
    option subnet-mask            255.255.255.0;
    filename "linux-install/pxelinux.0";
    host intel-inside-x {
        hardware ethernet 00:1F:29:CE:BC:B4;
        fixed-address 10.0.0.3;
    }
}

#service dhcpd restart
```

Troubleshooting

pxe no boot filename received pxe-e53

➔ enter subnet definition in /etc/dhcpd.conf file

pxe boot "PXE – t01 file not found"

<http://www.linuxquestions.org/questions/linux-networking-3/pxe-boot-pxe-t01-file-not-found-330842/>

➔ use in /etc/dhcpd.conf : *filename "linux-install/pxelinux.0";*

¹ Note the dhcp configuration file differences compared to the guidelines in chapter22 of "RHEL 5 Deployment Guide". The differences have been determined as explained in the paragraph "troubleshooting"