

Virtualization lab on RHEL 5 and/or RHEL 6 and DL360 G6

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Introduction

This report describes the preparation step to install either RHEL 5 or 6 on a DL360 G6. The goal is to work with RH virtualization, therefore I only consider RH releases that are KVM-compatible.

In addition, both releases are certified on DL360 G6

RHEL 5.5

source

http://blofly.usa.hp.com/X86_64/RedHat/EL5/Update5/Server/MD5SUMf3119f883257ef9041234feda2f1cad0 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

RHEL 6

Red Hat certification

<https://hardware.redhat.com/show.cgi?id=641950>

source

http://blofly.usa.hp.com/X86_64/RedHat/EL6/GA/Server/SHA1SUM

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA256

4391526d756703d55fe0fcd63f82a767492c0d79 RHEL6.0-20100922.1-Server-x86_64-DVD1.iso

-----BEGIN PGP SIGNATURE-----

Version: GnuPG v1.4.4 (GNU/Linux)

iQIVAwUBTJq6vhmeL5H9Qx1RAQh42w/9H/PNawNDgakvZq8mwtncXax6Smhcth5W
4WzBN5o3r8V5xFuh+zUANvbPXOVgWpHhwcLAjSWKG/EYXZMtqZnKgVkNwnFZ/xEf
6Nd4yxfiZlxOqJso9B8+MHRQbM+Swn7tIk18YItzYCHKCGKjU6/f7FI3HQQq8T0f
m4HkbnI78uaRtsRxTgaAA1HfUBw5saQntwQPHhpkPORcRME2c7lpXUOaJHN65np4
w6QaPhnaG5KBvBq5f0X9kY8B7Lynd+20xaz/nb/mkzUgMTQHdtLRrtw/so11C/cl
frT0RZzhbowSagJEW+UVX4JaQwetejqwqXw70IjOTq0pl90hzwtTjWZHibBkMkdm
xybbnE34cdfWI4qxYp8ywiKR451P1v5rI1ARcIxChC1PzZTqGyFeCj7+GTg1q8L9
m3i/vYbAGDx/INQFNLwFlu/eDY2s2/Okv0JNL74/TRkSVe1aQoNS+Be5R7EATq7E
BpM4o8N0mXVbPkDVMpSfuns9+L9xl7kgSWheiR0j4mYT9JeKNI0I+r+eHq7eSAco
7jX6JfinNW1NOFPxdUU9YbCxCh5PnXZOQKRCiBpXhhgQarro/hDKUh051LGa2YKi
FZMUNI0XvdtkcrJnZmBqREyA64HJJkVtu6sPHi89xoLp6td6RfbQlscbXMh3Rwt
h/T8t553OJo=
=W8WI

-----END PGP SIGNATURE-----

Target

C:\Users\PARETIJ\Documents>sha1sum RHEL6.0-20100922.1-Server-x86_64-DVD1.iso

4391526d756703d55fe0fcd63f82a767492c0d79 RHEL6.0-20100922.1-Server-x86_64-DVD1.

iso

Installation errors

bad pbr sig¹

This error, Bad PBR Sig, means that your Primary Boot Record has become borked. This normally happens when you are installing an OS on a machine that the OS is not familiar with, and it writes the record to the wrong place.

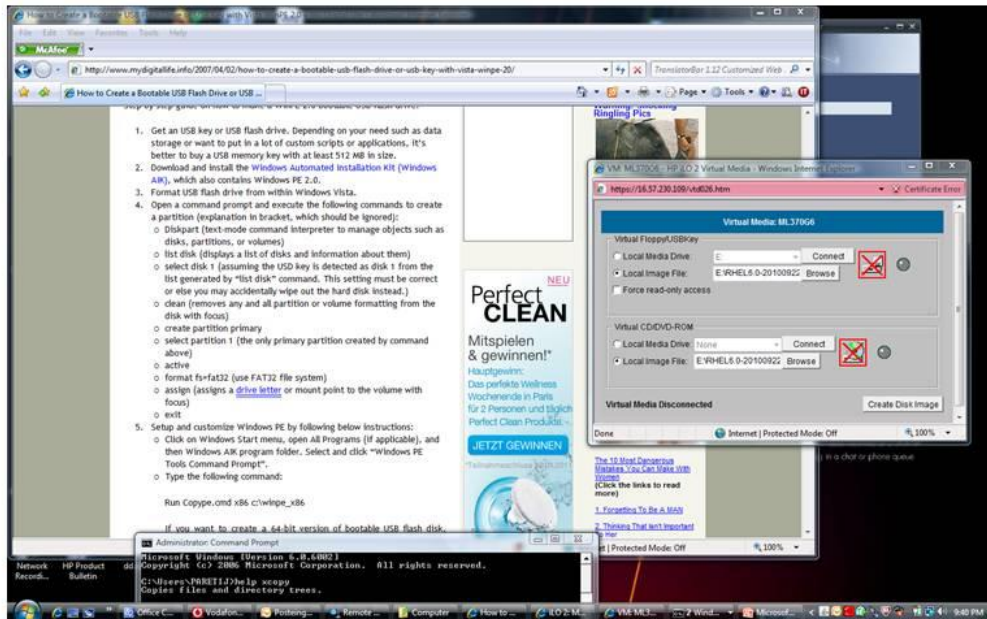
The workaround for the problem is to have a FAT32 partition somewhere on the boot drive. The contents of the partition doesn't matter, and it doesn't need to have a mount point. What matters is having a FAT32 entry in the Master Boot Record. This will be enough to make the BIOS think it sees the recovery partition it is looking for.

Possible solution – 0

1. Format the usb device to FAT32 (see screen dump below)
2. # dd if=stuff.iso of=/dev/sdb²

¹ Partition Boot Record

² Mount point of the usb device without number



Possible solution - 1

The core problem is that how an ISO is converted into bootable USB is not the same from one distribution to another.

The **best** option is unetbootin:

<http://unetbootin.sourceforge.net/>

Unetbootin is an automated tool that will take many different ISOs (it isn't guaranteed to work if you use it with an ISO that isn't on its approved list, though, so you might want to check the compatibility first) and makes bootable flash drives off them.

Download unetbootin

Directory of C:\Users\PARETIJ\Documents

03/28/2011 10:40 AM 4,359,468 unetbootin-linux-527

Run unetbootin on the Linux host "intel-inside-client"

Input: rhel*iso file downloaded from blofly

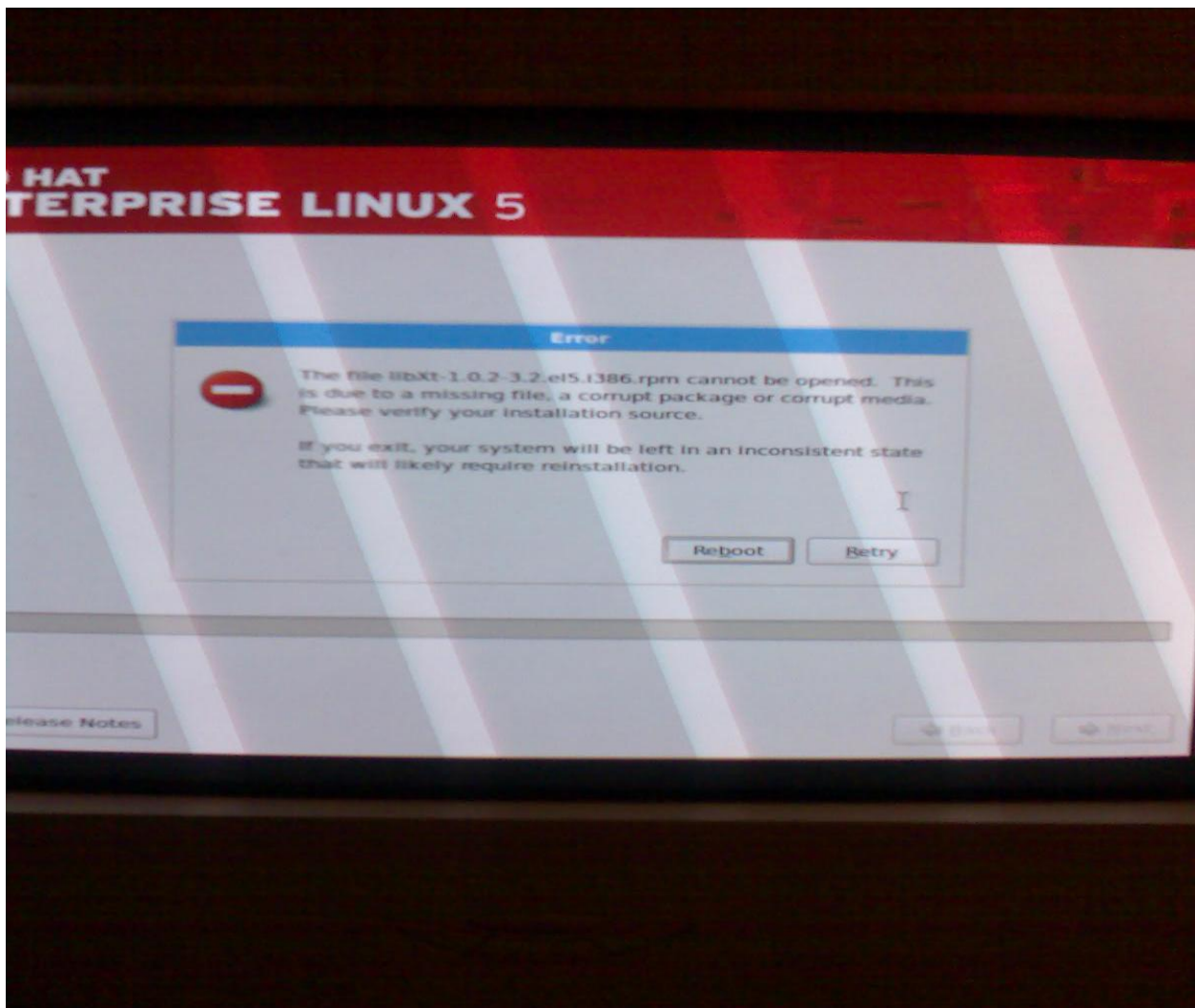
Output: USB device

Result: failed , unetbootin did not produce the usb boot device.

Possible solution - 2

Use ilo2 virtual media served up by a windows vista laptop

The process failed several times as the ilo connection went down during the file transfer



Possible solution - 3

Use another Linux node as PXE –based installation server, as explained in the RHEL 5 installation guide, chapter 34 “PXE Network installations”. One key step is to populate the installation tree:

```
# pxeos -L <location>
```

Answer:

Use:

```
# mount -o loop rhel-server-*.iso /media/iso
```

```
# cp -rvf /media/iso/* /var/ftp/pub/rhel5.5
```

```
...
```

```
#pxeos -L /pub/rhel5.5/ redhat-el5.5
```

(see the guidelines in <http://linuxhelp4u.blogspot.com/2010/07/pxepreboot-execution-environment.html> and in <http://www.youtube.com/watch?v=xFKiShEbSzE>)