



Workshop – Installation tips of Red Hat Enterprise Linux v.4 on IBM eServer x206m

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Pre Installation of eServer x206m

- Adaptec SATA Raid
- On Hardware Level press Control “A” to enter Adaptec utility (for RAID 0,1)
- Download RHEL v.4 or v.3 SATA RAID Driver from
 - X86 (32 bit)
 - <http://www-306.ibm.com/pc/support/site.wss/document.do?Indocid=MIGR-61878>
 - X86_64 (64 bit)
 - <http://www-306.ibm.com/pc/support/site.wss/document.do?Indocid=MIGR-63041>
 - Depend on version currently available
 - v.3 (GA,U4,U5,U6) and v.4 (GA,U1,U2)
- Driver is in tar format
- Unpack the tar file by using command on linux or by winzip on window
 - `bash# tar xvf ibm_dd_adpahci_1.19.3854_rhel4u1_32.tar`
- You should have 2 files (Example for v.4 X86 U1)
 - `adpahci.rhel4qu1.i686.img` (1.44 MB Floppy Image)
 - `adpahci.rhel4qu1.i686.rpm` (rpm file for upgrade kernel use)

Pre Installation of eServer x206m cont.

- Create a driver disk
- On linux
 - (Normal Floppy)
 - `dd if=/tmp/adpahci.rhel4qu1.i686.img of=/dev/fd0`
 - (USB Floppy or USB Thumb Drive)
 - `dd if=/tmp/adpahci.rhel4qu1.i686.img of=/dev/sda`
- On Window
 - Get rawrite from
 - <http://www.tux.org/pub/dos/rawrite/>
 - Dos Prompt
 - Type rawrite
 - (You will be ask where is the path of your image file)
 - (Target Drive to be written)

Pre Installation of eServer x206m cont.

- Get CD 1 to boot
- When you see the First Red Hat Installer boot screen
 - Plugin Driver Disk into normal Floppy Drive
 - Plugin USB Floppy + Driver Disk, USB Thumb Drive
 - Type linux dd

Now You are all set to Install RHEL :-)



Red Hat Enterprise Linux

- To install or upgrade in graphical mode, press the <ENTER> key.
- To install or upgrade in text mode, type: linux text <ENTER>.
- Use the function keys listed below for more information.

[F1-Main] [F2-Options] [F3-General] [F4-Kernel] [F5-Rescue]

boot: linux dd_

Welcome to Red Hat Enterprise Linux



<Tab>/<Alt-Tab> between elements ; <Space> selects ; <F12> next screen

- Normal Floppy Drive (/dev/fd0)
- USB Floppy Drive and USB Thumb Drive (/dev/sda)

Welcome to Red Hat Enterprise Linux



Post Installation of eServer x206m

- Upgrade kernel from U1 to U2
- kernel-smp-2.6.9-11.EL -> kernel-smp-2.6.9-22.EL
- Make sure you also upgrade Adaptec SATA Raid Driver
- Recall the tar file earlier
 - Download U2 tar file (ibm_dd_adpahci_1.19.3854_rhel4u2_32.tar)
 - Unpack ibm_dd_adpahci_1.19.3854_rhel4u2_32.tar)
 - rpm -ivh kernel-smp-2.6.9-22.EL.i686.rpm
 - rpm -ivh adapahci.rhel4qu2.i686.rpm

Extra Information on IBM eServer xSeries

- Similar installation procedure for any other IBM ServeRAID machine
- xSeries 460, 366, 306m etc
- IBM ServeRAID software matrix
 - <http://www-307.ibm.com/pc/support/site.wss/SERV-RAID.html>

