Lesson02: Operating System (Linux).

```
LAB: 01- Linux Installation and environment readiness.
Follow the class.
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LAB: 02- Selinux & Linux Repository Management.
Linux Repository Management:
# yum install nginx
# cd /etc/yum.repos.d/
# vim nginx.repo
    [nginx]
    name=nginx repo
    baseurl=http://nginx.org/packages/mainline/centos/7/$basearch/
    apacheck=0
    enabled=1
:x
# yum clean all
# yum repolist
# yum install nginx
# systemctl status nginx
# systemctl start nginx
# systemctl status nginx
# systemctl is-enabled nginx
# systemctl enable nginx
# systemctl is-enabled nginx
Linux Selinux Management:
# getenforce
# vim /etc/selinux/config
   # This file controls the state of SELinux on the system.
   # SELINUX= can take one of these three values:
       enforcing - SELinux security policy is enforced.
       permissive - SELinux prints warnings instead of enforcing.
       disabled - No SELinux policy is loaded.
   SELINUX=disabled
   # SELINUXTYPE= can take one of three two values:
       targeted - Targeted processes are protected,
   #
       minimum - Modification of targeted policy. Only selected processes are
protected.
       mls - Multi Level Security protection.
   SELINUXTYPE=targeted
# init 6
# getenforce
```

LAB: 03- Linux File System Management.

```
# fdisk /dev/xvdf
# Isblk
# pvcreate /dev/xvdf1
# yum install lvm2
# cat /proc/partitions
# partprobe
# pvcreate /dev/xvdf1
# vgcreate myvg /dev/xvdf1
# vgs
# Ivcreate -L 100GB myvg
# lvcreate -L 10GB myvg
# lvdisplay
# mkdir /pagecloud -p
# cd /dev/mapper/
# Is
# blkid
# mkfs.xfs /dev/myvg/lvol0
# vi /etc/fstab +
UUID
            /pagecloud xfs
                                defaults
                                              0 0
# mount -a
# df -HT
# cd /pagecloud/
# touch page.txt
```

LAB: 04- Linux Server Root Password Break procedure.

- 1. Go to GRAB Menu/Start up menu.
- 2. Press E
- 3. Type and "rd.break" append end of the line.
- 4. Press ctrl+X

```
Red Hat Enterprise Linux Server, with Linux 3.10.0-123.e17.x86 64
Red Hat Enterprise Linux Server, with Linux 0-rescue-7dc3a65cc34a4f67a7d+

Press "e" to edit the selected boot option.

Use the I and | keys to change the selection.

Press 'e' to edit the selected item, or 'c' for a command prompt.
```

```
insmod ext2

set rout='hd0,msdos1'

if I x$feature_platform_search_hint = xy 1: then
scarch -no-floppy --fs-uuid --set=root --hint-bios=hd0,msdos1 --hint
t-efi=hd0,msdos1 --hint-baremetal=ahci0,msdos1 --hint='hd0,msdos1' 76bd87f9-6\)
38d-4562-924c-ad0b10db2185
else
search -no-floppy --fs-uuid --set=root 76bd87f9-638d-4562-924c-ad0b\)
ilinux16 /vmlinuz-3.10.0-123.e17.x86_64 root=UUID=9636862f-cacd-4ab9-a5\)
be-sun16 rhgb quiet LANG=en US.UTF-8 rd break_
initrd16 /initramfs-3.10.0-123.e17.x86_64.img

Press Ctrl-x to start, Ctrl-c for a command prompt or Escape to discard edits and return to the menu. Pressing Tab lists
possible completions.

when the cursor will be at the start point of the line started with linux16..... press END" then it will go to the end of the line, then type "rdbreak" and then press "ctrl+x" to boot
```

- 5. switch_root:/# mount -o remount, rw /sysroot/
- 6. switch_root:/# chroot /sysroot/
- 7. Sh-4.2 # passwd
- 8. <TYPE NEW PASSWORD>
- 9. Confirm the password again.
- 10. sh-4.2 # touch /.autorelabel
- 11. sh-4.2 # exit
- 12. switch_root:/# exit