LINUX SYSTEM & NETWORK ADMINISTRATION

DAY 1

SETUP VIRTUAL BOX

- INSTALL CENTOS 7 ON VIRTUAL BOX
- MAKE PORT FORWARD FOR ACCESS GUEST OS FROM HOST OS

BASIC LINUX COMMAND

- List file and Directory (ls)
- Change Directory (cd)
- Print Working Directory (pwd)
- Make Directory (mkdir)
- Create Files (touch)
- Remove File or Directory (rm)

BASIC LINUX COMMAND

- Copy File or Directory (cp)
- Move (mv)
- Print file content (cat)
- View file (less)
- Common Editor (vi)

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- What is Yellowdog
  - man yum
- Yellowdog Searcing
  - yum search [name]

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- Yellowdog list Item
  - yum list all
  - yum list [exp]
  - yum list installed [exp]
  - yum list available [exp]
  - yum repolist

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- Yellowdog check info package
  - yum info [package]

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- Yellowdog install software
  - yum install [package]

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- Yellowdog search binary
  - yum provides [bin name]

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- Yellowdog remove software
  - yum remove [package]

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- Yellowdog history
  - yum history list
  - yum history summary [id]
  - yum history info [id]
  - yum history new
  - database directory is /var/lib/yum/history

SOFTWARE MANAGEMENT WITH YELLOWDOG UPDATER MODIFIED

- Manage Source list EPEL
  - yum install epel-release -y
- Manage Source list Remi
  - wget http://mirrors.thzhost.com/remi/enterprise/remi-release-7.rpm
  - rpm -ivh rems-release-7.rpm

LINUX FILE SYSTEM

- /**boot**/ directory contains static files required to boot the system
- /**dev**/ directory contains device nodes that either represent devices that are attached to the system or virtual devices that are provided by the kernel
- /**etc**/ directory is reserved for configuration files that are local to the machine
- /**lib**/ directory should contain only those libraries needed to execute the binaries in /bin/ and /sbin/

LINUX FILE SYSTEM

- /**media**/ directory contains subdirectories used as mount points for removeable media
- /**mnt**/ directory is reserved for temporarily mounted file systems
- /**opt**/ directory provides storage for most application software packages
- /**proc**/ directory contains special files that either extract information from or send information to the kernel

LINUX FILE SYSTEM

- /**sbin**/ directory stores executables used by the root user
- /**srv**/ directory contains site-specific data served by your system
- /**sys**/ directory contains information similarly held in /proc/, but displays a hierarchical view
- /**var** variable data files. this includes spool directories and files, administrative and logging data, and transient and temporary files.

LINUX FILE SYSTEM PERMISSION

- chmod
- chown

LINUX USER MANAGEMENT

- useradd
- userdel
- groupadd
- groupdel
- usermod
- passwd

LINUX QUOTA MANAGEMENT

- install quota package
  - yum install quota -y
- add group to fstab
  - /dev/mapper/cl-home /home ext3 defaults,usrquota,grpquota 1 2
- remount file system
  - mount -o remount /home

LINUX QUOTA MANAGEMENT

- create quota disk
  - quotacheck -cugv /home
- enable quota on path
  - quotaon /home/
- remount file system
  - mount -o remount /home

LINUX QUOTA MANAGEMENT

- assign user
  - edquota -u <username>
- test create file
  - dd if=/dev/zero of=bgfile bs=1m count=8
- check status
  - repquota -as

LINUX COMPRESS WITH TAR

- create
- tar cvf <filename>
- extract
- tar xvf <filename>
- list file
- tar tvf <filename>

- extract single file
- tar xvf <tar file> <target file>
- extract group of file
- tar xvf <tar file> --wildcards '*xxx'
- append file
- tar rvf <tar file> <target file>