RHCEv8 Online Class 02052021 10:00pm RHCSA-sysadmin

-Installation

-Accessing the Command Line

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#### **How to Install Linux**

1-Install Linux on local host

2-online platform

3-COSS online servers

#### 1-Install Linux on local host

steps:

1-1-download and Install virt-platform over Guest OS

1-1-1-Oracle VirtulaBox

https://www.virtualbox.org/wiki/Downloads

### 1-1-2-Download CentOsv8.3 iso image

http://isoredirect.centos.org/centos/8/isos/x86\_64/

http://centos.mirror.snu.edu.in/centos/8.3.2011/isos/x86 64/

http://centos.mirror.snu.edu.in/centos/8.3.2011/isos/x86 64/CentOS-8.3.2011-x86 64-dvd1.iso

follow record to install Linux

#### 2-Online Platform

https://www.katacoda.com/

3-COSS online servers

# ACCESSING THE COMMAND LINE INTRODUCTION TO THE BASH SHELL

how access to Linux

1-cli

2-gui

3-web access

#### what is cli?

1-cli

-cli, command line its text-based interface. users run commands on cli and get respond from Linux.

-cli provided by SHELL

in RHEL default shell is **BASH**-Bourne-Again **SH**ell

# echo \$SHELL

/bin/bash

2-gui-Graphical User Interface

access to Linux through gui mode

after login to Linux cli, watch bash prompt:

[root@servera ~]#

root ->current login user

servera ->hostname

->Tilde/Tilda symbol. this section says where is your location on Linux.

#/\$ ->#->superuser(root) \$->regular user

## **Linux Command Structure**

<command> <option> <argument/target location>

# Is / # Is -a /mnt

#### what is option

using option to filter output of command. Linux options started by '-'

#### find out bash prompt through commands

# whoami

# hostname

<FQDN> Fully Qualified Domain Name

# hostname --help ->shows command's options

# hostname -s

or

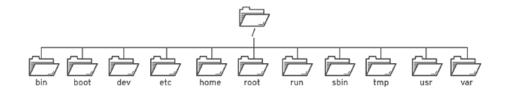
# hostname --short # hostname -i # hostname -d

->print working directory # pwd

## **Managing Files from the Command Line** what is Filesystem Hierarchy Structure/System-FHS

-inverted tree directory based structure started by '/'

-'/' its root of FHS



# Ctrl+l

# clear ->clear screen

# ls /

bin dev home lib64 mnt proc run srv tmp var boot etc lib media opt root sbin sys usr

->root user home dir /root ->other users home dir

/home

/boot ->OS boot files

->stored Linux configuration files /etc

->stored Linux device files /dev

/mnt ->mount external storages likes pendrive, external hard disk

/media ->mount CD/DVD, iso images

/bin ->executable binary files/commands accessible by root and users /sbin ->super executable binary files/commands accessible just by root

ex:

to find out commands home dir:

# which <command>

# type -a <command>

# which fdisk

/usr/sbin/fdisk

or

# type -a fdisk

fdisk is /usr/sbin/fdisk

# which id

/usr/bin/id

## concept

-what is TAB completion

by pressing TAB key on keyboard we are be able to complete commands and path on Linux.

ex:

# Is

# Ismem

# Iscpu

# Isblk

# Ispci

# Isscsi

# Isusb

/proc ->comes from process. shows running kernel process

# cat /proc/cpuinfo

# cat /proc/partitions

# cat /proc/meminfo

/opt -> location to install application on Linux

/lib ->library files 32bit
/lib64 ->library files 64bit
/tmp ->temp files are here
/var ->variable files are here

# change location on FHS by using 'cd' command

# pwd /root # cd /tmp # pwd /tmp # cd /opt # pwd /opt

# cal # bc # date

# uptime # passwd

# short cuts

1-Ctrl+c ->terminate
2-Ctrl+d ->save and quit
3-Ctrl+z ->stop/freeze

## collect OS name and version

# hostnamectl

# cat /etc/redhat-release