Class 14

Permission

Umask (user file creation mask ) = it is numerical value which substract from full permission then assign to file/folder .

Full permission

Directory = 777 = rwxrwxrwx

File = 666 = rw-rw-rw-

Privilege user (root)

Directory = 755 = 777-755 =022

File = 644 = 666-644 =022

Non-privilege user (abc)

Directory = 755 = 777-755 = 022

File = 644 = 666-644 =022

Change the umask

1. Temporary
2. Permanent
3. Temporary =

See the umask = umask

Umask 222 = 777-222 = 555 , file = 666-222 =444

Bash

1. Permanent

Specific user

For all

Specific user

Abc

Vim .bashrc

Umask 444

:wq

Bash

For all

Vim /etc/bashrc

75 umask 002 = non privilege

76 else

77 umask 022 = root

troubleshoot

1. Break the root password

2 way

1 way = restart = 1 line = rd.break (ramdisk) = ctrl+x

= mount –o remount rw /sysroot (root partition can be editable)

= chroot /sysroot (root home will /sysroot)

= passwd root or passwd (for change the root password)

= touch /.autorelabel (linux = firewall , selinux ) = relabeling

= exit =exit

2 way

= restart = 1 line = rd.break selinux=0 (ramdisk) = ctrl+x

= mount –o remount rw /sysroot (root partition can be editable)

= chroot /sysroot (root home will /sysroot)

= passwd root or passwd (for change the root password)

Booting process of linux

1. Hardware boot
2. Boot loader
3. Kernel
4. Inid/systemd
5. Login screen
6. Hardware boot = = power on = POST (power on self test) = BIOS (basic input output system) = first boot device
7. Boot loader = it start the OS

Linux = LILO , LOLIN , GRUB , GRUB2

1. Kernel = it make interface between hardware and OS

RHEL 5,6 = iniird (intial ram disk)

RHEL7,8,9 = initramfs.img (initial ram file system)

1. Initd/systemd = start the services

RHEL 5,6 - initd

RHEL 7,8,9 = systemd

Pstree = see all service

1. Login screen

User name = /etc/passwd

Password = /etc/shadow

GRUB corrupt and recover

Rm -rf /boot/grub2/grub.cfg

Init 6

Grub>

Shutdown and go to BIOS and start from OS image

Troubleshooting = rescue a centos linux system = press 1 = chroot /mnt/sysimage

=grub2-mkconfig -o /boot/grub2/grub.cfg

= touch /.autorelabel

Exit

Exit

Give Grub password

Cd /boot/grub2

Grub2-setpassword

New file = user.cfg

Remove the password

Rm user.cfg

Break the grub password

Restart - boot from CD = troublrshooting = rescue a centos linux = press 1 = chroot /mnt/sysimage

= cd /boot/grub2 = rm -f user.cfg = exit = exit

Kernel panic

Cd /boot

Intriramfs-4 -- - img =kernel file

Rm -f initramfs

Init 6

Solve

Go to 2 line

Cd /boot

Uname –r (kernel version ) =copy it

Dracut initramfs-paste.img

Make new file forcefully

Mkinitrd --force paste.img paste

Init 6

Start from 1 line