RedHat Certified System Administrator (RHEL 9)

SUMMARY

[Root access is mandatory]

1. Check your disks:

lsblk (-f)

2. Using "fdisk" to partition the disk:

fdisk /dev/sdX

n: New partition

p: Print partition table

t: Change type

w: write changes and exit

3. Format the partition(in this step you can also give the partition a LABEL, more in the man pages):

> mkfs.xfs /dev/sdb1 mkfs.ext4 /dev/sdb1 mkfs.vfat /dev/sdb1

{mkswap/dev/sdb1; swapon /dev/sdb1}

- 4. Mount the newly created partition
- Method1: Manually

mount [partition] [existing_path]

Method2: Persistent

vim /etc/fstab

UUID=XXXX /mount_point filesystem_type defaults 0 0 LABEL=XXXX /mount_point filesystem_type defaults 0 0 **EXAMPLE:** UUID=**XXXX** none swap defaults 0 0

PS: You can get the UUID of the partition using "blkid" Do not use the path of the partitions in the "fstab" file because they are given at the boot, meaning they don't uniquely define each partition.

Interrupt boot procedure

- Happens when the system crashes:
 - Some wrong entry in /etc/fstab
 - A mistake in /etc/sudoers
 - Needed to reset root password
- Reboot/Reset the VM and when you get to the grub menu (press 'e'):



2. You will then have access to a file editor, you need to add exactly: "rd.break" (no spaces after that) after the 4th line that ends with "rhgb quiet".



3. Press CTRL+x and it will open a shell, then you have to remount the sysroot directory (which contains the filesystem that you get when booting normally) with the options remount and rw since it's now a Read Only mount:

mount -o remount,rw /sysroot

- 4. Change the root of your filesystem to sysroot: chroot /sysroot
- 5. Resolve whatever issue that caused your system to crash or reset your root password

echo "root_password" | passwd --stdin root

6. To be able to boot next time, you HAVE to create a file "/.autorelabel" to trigger the SELinux system to relabel all objects on the next boot. (More on that in the SELinux Chapter), after that exit twice, continue the boot.

touch /.autorelabel