

# 202.2 - System Recovery

## **Weight: 4**

Description: Candidates should be able to properly manipulate a Linux system during both the boot process and during recovery mode. This objective includes using both the init utility and init-related kernel options. Candidates should be able to determine the cause of errors in loading and usage of bootloaders. GRUB version 2 and GRUB Legacy are the bootloaders of interest. Both BIOS and UEFI systems are covered.

## **Key Knowledge Areas:**

- BIOS and UEFI
- NVMe booting
- GRUB version 2 and Legacy
- grub shell
- boot loader start and hand off to kernel
- kernel loading
- hardware initialisation and setup
- daemon/service initialisation and setup
- Know the different boot loader install locations on a hard disk or removable device.
- Overwrite standard boot loader options and using boot loader shells.
- Use systemd rescue and emergency modes.

## **Terms and Utilities:**

- mount
- fsck
- inittab, telinit and init with SysV init
- The contents of /boot/, /boot/grub/ and /boot/efi/
- EFI System Partition (ESP)
- GRUB
- grub-install
- efibootmgr
- UEFI shell

- initrd, initramfs
- Master boot record
- systemctl

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