

1. What is the proper order of system initialization stages on most x86-based systems?

1 / 1 point

- ☒ BIOS -> GRUB -> init (PID 1)
- ☐ GRUB -> BIOS -> init (PID 1)
- ☐ init (PID 1) -> BIOS -> GRUB

✓ **Correct**

The system starts with BIOS, then moves to GRUB, and then starts first user process, init.

2. Which files need to be in the **/boot** directory for the system to boot up (select all that apply)?

0 / 1 point

✓ **System.map**

✗ **This should not be selected**

This file contains important debugging information, but is not needed to boot.

✓ **config**

✗ **This should not be selected**

This file contains the kernel configuration and is there for reference and is not needed to boot.

✓ **initramfs**

✓ **Correct**

This is the initial ram filesystem, which contains essential drivers for hardware and filesystems.

☐ **vmlinuz**

3. Using GRUB lets you (Select all correct answers):

1 / 1 point

✓ Choose various options for booting up the system



Correct

One can change many parameters that the system starts with



Choose which Linux kernel to use for boot



Correct

One can either have different options in the menu, or add one at run time



Choose between operating systems or different Linux distributions



Correct

One can have a multiple boot system, with multiple versions of Linux, Microsoft Windows, etc

4. Select the order in which the following system initialization methods were introduced:

1 / 1 point



systemd -> SysVinit -> Upstart



SysVinit -> Upstart -> systemd



SysVinit -> systemd -> Upstart



Correct

SysVinit goes back many years and systemd is the most recent

5. Which runlevel is multiple user with no graphical desktop?

1 / 1 point



3



1



5



Correct

Runlevel 3 is multiple user with network, but only text login