✕ **Try again once you are ready.**

Required to pass: 80% or higher

You can retake this quiz up to 3 times every 8 hours.

<kbd>Back to Week 3</kbd>

<kbd>Retake</kbd>

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

1 / 1 point

○ **GRUB -> BIOS -> init (PID 1)**

◉ **BIOS -> GRUB -> init (PID 1)**

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

○ **init (PID 1) -> BIOS -> GRUB**

✗ **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.

☐ **vmlinuz**

This should be selected

☐ **config**

Un-selected is correct

☐ **initramfs**

This should be selected

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

0 / 1 point

☑ Choose which Linux kernel to user 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

This should be selected

☐ Choose various options for booting up the system

This should be selected

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

1 / 1 point

○ systemd -> SysVinit -> Upstart

○ SysVinit -> systemd -> Upstart

◉ SysVinit -> Upstart -> systemd

Correct
SysVinit goes back many years and systemd is the most recent

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

0 / 1 point

○ 3

◉ 1

This should not be selected
Runlevel 1 is single user mode with no network or graphical login

○ 5

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