



Overview

Week 1

Week 2

Week 3

Week 4

Week 5

Grades

Discussion Forums



Congratulations! You've completed the course. [View Final Grade](#)

THIS WEEK'S FORUM

Week 3

Discuss this week's modules here.

2 threads · Last post 5 days ago

Go to forum

System Components



Jerry Cooperstein



Learning Objectives

Understand how the system boots, the role of GRUB and the contents of the /boot directory

Discuss the next steps of launching essential functions using systemd and its predecessors, SysVinit and Upstart

Kill the graphical desktop interface and enter a pure text-based terminal

Analyze memory usage and the role of swap space, and how the system reacts to running out of memory

Discuss how the system works with network devices and how they are identified and named

Configure and bring up or down network interfaces and networks

⌵ Less

System Initialization



Video: Module 3 Overview 1 min

Resume



Video: System Boot 3 min



Reading: /boot Directory 10 min



Video: Using GRUB (Demo) 2 min



Video: System Initialization 3 min



Reading: System Runlevels 10 min



Reading: Killing the Graphical User Interface (Lab) 15 min



Quiz: System Initialization 5 questions

Memory



Reading: Memory 20 min



Reading: Swap 10 min



Video: Using Swap and OOM (Demo) 4 min



Video: Threading Models 2 min



Reading: Invoking the OOM Killer (Lab) 1h



Quiz: Memory 5 questions

Networking



Reading: Networking and Network Interfaces 15 min



Video: Using Predictable Network Interface Device Names 2 min



Reading: Networking and Network Interfaces (Cont.) 15 min



Reading: Static Configuration of a Network Interface (Lab) 30 min



Quiz: Networking 5 questions