Schedule and outline

Texts

- Virtualization for Dummies (Dummies)
- Xenserver Administration Handbook
- ESXi Documentation from VMware
- Learning VMware Vsphere (LVV)

Week 1

Topics:
- Hypervisors
- Types of virtualization

Readings:
- Dummies chapter 1, 3
- Explained by vmware

Intro Slides
More Slides
ESXI Install (part)
Rufus
Assignment

Week 2

ESXI and VMWare
- Installation

Readings:
- LVV chapter 1
- LVV chapter 2
- LVV chapter 5

Slides
Connect ISO to esxi
Assignment

Week 3

NFS on Ubuntu How To
VMWare Server Appliance
- Installation

Readings:
- LVV chapter 6
- LVV chapter 3
- create cluster
- add host to cluster
- Move hosts to cluster
- Create cluster datastore

Slides - Install VCSA
Slides - VCSA Objects
Assignment
Assignment
Week 4

- Virtual Machines
- Readings:
  - LVV Chapter 8
- My how-tos:
  - Create virtual machine using vcsa
  - Install VMware Tools Linux
- Slides
- Slides
- Assignment

Week 5

- Readings:
  - LVV Chapter 4
  - Networking concepts overview
  - vSphere Standard Switches
  - vSphere Distributed Switch Architecture
- My how-tos:
  - Create an eSXI port group and new vswitch video
  - Add a vm to a vSwitch
  - Create distributed switch video video2
  - Enable vmotion
- Assignment
- Assignment
- Slides

Week 6

- Readings:
  - Storage overview
  - DRS Settings
- Slides
- Slides
- Assignment

Week 7

- Slides
- Kahoot review
- Exam on VMWare (Testing Center)

Week 8

- Topics:
  - Virtualization with Proxmox
  - Fall Break

Week 9

- Topics:
  - Essentially we will redo all our assignments with Proxmox
  - Proxmox exam
Week 10

- Topics:
  - Containers (LXC with Proxmox)
  - Docker
- Readings:
  - Chapter 1
  - Slides
  - Assignment
  - Assignment
  - Assignment

Week 11

- Topics:
  - More Docker
- Readings:
  - Entrypoint vs CMD
  - Chapter 3
  - Basic container networking
  - Slides
  - Slides
  - Assignment

Week 12

- Topics:
  - Kubernetes
- Readings:
  - K8S tutorial
  - Slides
  - Slides
  - Assignment
  - Assignment

Week 13

- Topics:
  - Kubernetes

Thanksgiving

Week 14

- Topics:
  - Kubernetes on GCP
  - Slides
  - Assignment

Week 15

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