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)
- Topics:
  - Virtualization with Proxmox
- [Assignment](#)

Week 8
- Topics:
  - Virtualization with Proxmox
  - Containers (LXC with Proxmox)
- Readings:
  - [LXC vs Docker](#)
- [Assignment](#)
- [Slides](#)
- Fall Break
Week 9

- Topics:
  - Docker
- Readings:
  - Chapter 1
- Assignment
- Assignment
- Assignment
- Slides
- Slides
- Slides

Week 10

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

Week 11

- Test 2
- Topics:
  - Kubernetes
  - demo
- Readings:
  - K8S tutorial
  - Working with Kubernetes Objects
- Slides
- Slides
- Assignment
- Assignment

Week 12

- Topics:
  - Kubernetes on GCP
  - Kubernetes
- Slides
- Assignment

Week 13

- Topics:
  - More kubernetes
- Assignment

Thanksgiving

Week 14

- Topics:
  - More kubernetes
- K8s yml files
- virtualbox?

- Slides
- Assignment

## Week 15

- Monday - catch up
- Wed - Practical (test4)
- Fri - Canvas (test4)

We will have presentations on the day of the final.