Schedule and outline

Texts
- Virtualization for Dummies (Dummies)
- ESXi Documentation from VMware
- Learning VMware Vsphere (LVV)
- Proxmox Admin guide (PX)

Week 1 (Aug 24 - 28)
- Topics:
  - Hypervisors
  - Types of virtualization
  - Virtualization with Proxmox
  - connect iso to proxmox
  - Virtual Machines
- Readings:
  - Dummies chapter 1,3
  - PX 1 , PX 2.3.1, 2.3.2
  - Explained by vmware
- Slides:
  - Intro Slides
  - More Slides
  - Proxmox Chapter 1
- Notes:
  - Movie - Connect to proxmox with tunnel from mac/linux
  - Movie - install vm
- Assignments:
  - Project 1 - Research
  - Also begin project 2

Week 2 (Aug 31 - Sep 4)
- Topics:
  - More on VMs
  - NFS and proxmox
  - Clustering
- Readings:
  - PX 5 (Explanation of the GUI) (review if needed)
  - PX 10
- Slides:
  - Proxmox Chapter 10
- Notes:
  - FreeNas Install
  - FreeNas NFS
  - FreeNas networking
- Assignments:
  - Proxmox Install

Week 3 (Sep 7 - Sep 11)
- Topics:
  - Clustering
  - High availability
- Readings:
  - PX 6
- Slides:
  - Proxmox Chapter 6
Week 4 (Sep 14 - 18)

- Topics:
  - Finish up, Proxmox exam
  - Review

- Readings:
  - Proxmox 8

- Assignments:
  - Proxmox Stats

Week 5 (Sep 21 - 25)

- Topics:
  - containers
  - docker

- Readings:
  - LXC vs Docker
  - Chapter 1
  - Good overview video of Docker

- Slides:
  - Containers
  - Docker 1
  - Docker 2
  - Docker 3

- Assignments:
  - Docker - hello
  - Docker - identidock
  - Docker - webapp

Week 6 (Sep 28 - Oct 2)

- Topics:
  - More Docker
  - docker compose

- Readings:
  - Entrypoint vs CMD
  - Chapter 3
  - Basic container networking

- Slides:
  - Docker storage
  - Docker compose

- Assignments:
  - Docker - Mysql Apache

Week 7 (Oct 5 - 9)

- Topics:
  - Kubernetes

- Readings:
  - K8S tutorial

- Slides:
Week 8 (Oct 12 - 15)

- Topics:
  - Kubernetes
  - K8s yml files
- Slides:
  - Slides
- Assignments:
  - K8s wordpress

Week 9 (Oct 19 - 23)

Week 10 (Oct 26 - Oct 30)

Week 11 (Nov 2 - 6)

- Topics:
  - More kubernetes
  - Kubernetes on GCP
- Slides:
  - Slides
- Assignments:
  - K8s php and redis

Week 12 (Nov 9 - 13)

- Topics:
  - More kubernetes
- Assignments:
  - K8s pokemon
  - K8s google cloud

Week 13 (Nov 16-20)

- Topics:
  - Kubernetes exam
  - Canvas exam

Week 14 (Nov 23)

- Topics:
  - Monday - Prep for presentations
  - ** Thanksgiving **
- Assignments:
  - Presentation Instructions

Week 14 (Nov 30 - Dec 4)
• Monday - Presentations
• Wed - Presentations