Schedule and outline

Texts

- Virtualization for Dummies
- Xenserver 7.0 Documentation
- Mastering Citrix Xenserver
- Xenserver Administration Handbook
- ESXi Documentation from VMware
- VMware vsphere Essentials

Week 1

- Topics:
  - Hypervisors
  - Types of virtualization
  - XenServer

- Readings:
  - ch1-XAH
  - Dummies chapter 1,3
  - Explained by vmware

- Intro Slides
- More Slides
- Install Slides
- NFS Slides
- Assignment

Week 2

- Topics:
  - Installing Xenserver
  - Creating virtual machines
  - Creating shared storage

- Readings:
  - MCX chapter 1, only the sections on Planning and Installing Citrix XenServer through Installing and setting up Xencenter
  - Administrators Guide Section 5.1

- Slides
- Slides
- Assignment

Week 3

- Topics:
  - VM Memory
  - Virtual Machines

- Readings:
  - MCX chapter 4

- Slides
- Assignment
Week 4

- Topics:
  - Pools
  - Disaster recovery
  - backups
  - snapshots
  - exports and imports
- Readings:
  - MCX chapter 5
- Slides
- Assignment

Week 5

- Upgrades
  - rolling pool upgrade
- User management?
- Readings:
  - XAH chapter 8
  - XS 7 Documentation ch 8
- Slides
- Slides
- Slides
- Update Screenshots
- Assignment

Week 6

- Metrics and Monitoring
- Networking?
- Stress testing? Performance Evaluation
- Slides
- Assignment
- Assignment

Week 7

- FreeNas
  - Howto
- Test?

Week 8

- ESXI and VMWare
  - Installation
- Readings:
  - VvE chapter 1
- Slides
- Assignment

Week 9

- VMWare Server Appliance
Week 10

- Virtual Machines
  - Readings:
    - *VVE Chapter 3*
    - *VVE Chapter 4*
  - My how-tos:
    - *Create virtual machine using vcsa*
    - *Install VMware Tools Linux*
    - *Create an VM on ISCSI Datastore*
    - *Connect VMWare to iscsi datastore*
    - *Add another ISCSI target to vmware*
    - *Create an ISCSI target on freenas*

Week 11

- Readings:
  - *VVE Chapter 6*
  - *Networking concepts overview*
  - *vSphere Standard Switches*
  - *vSphere Distributed Switch Architecture*
- My how-tos:
  - *Create an eSXI port group and new vswitch*
  - *Add a vm to a vSwitch*
  - *Create distributed switch*

Week 12

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

Week 13
Week 14

Topics: Docker, Containers

- Readings
  - chapter 1
  - chapter 2
  - Install Docker

- Slides

Week 15

Topics: Docker

- Readings
  - chapter 3
- Slides
- Assignment
- Assignment
- Assignment
- Assignment