Resources

- CIT VM Farm
  - Create VM and connect from osx/Linux
  - Manage VMs with CLI instead of Web
  - Connect to vm from Linux host
- AWS
  - Create EC2 instance
  - Connect EC2 instance
- Software
  - If you are using windows to connect to your vm, you might need the following:
    - Putty
    - TightVNC
  - If you have a newer version of windows 10 and have installed the linux subsystem, you can just ssh from the command line like you do in OSX and Linux.

Week 1 (Jan 10,12)

- Slides
  - DHCP Slides
- Readings
- Lectures
  - DHCP Lecture
  - Bionic Networking
  - Wireshark DHCP Capture
- Screenshots/Helps
  - DHCP Dynamic
  - DHCP Fixed
  - DHCP Dynamic Client
- Assignment
  - Hosts

Week 2 (Jan 19)

- Slides
  - NFS Slides
  - PXE Boot
  - Kickstart
- Reading
- Lectures
- Screenshots/Helps
  - NFS How To
  - kickstart
  - tftp and Netboot
- Assignment
  - DHCP

Week 3 (Jan 24, 26)

- Slides
  - Diskless
- Reading
Week 4 (Jan 31, Feb 2)

** EXAM 1 **

- Slides
- Reading
- Lectures
- Screenshots/Helps
  - Review
  - Capture image fog video old video
  - Deploy image fog video
- Assignment
  - Diskless Boot
  - FOG

Week 5 (Feb 7,9)

- Slides
  - Shell 1
  - StdOut
  - StdIn
  - Command Execution
  - Variables
- Reading
  - Shell review - Cookbook ch1
  - The bash cookbook version 2 is located on Oreilly. Navigate to library.dixie.edu -> ebook collections -> O'Reilly. Search for “bash cookbook”.
  - stdout review - Cookbook 2
  - stdin review - Cookbook 3
  - Executing commands - Cookbook 4
- Lectures
  - Sample files
- Screenshots/Helps
- Assignment
  - Bash on Windows

Week 6 (Feb 14,16)

- Slides
  - Logic
  - Sed/Awk
- Reading
  - Variables - cookbook 5
  - Shell logic and arithmetic - cookbook 6
  - A better one on logic
  - Recommended on brackets
  - AWK, SED - Read 7.10- 7.11
Week 7 (Feb 23)

- NO CLASS FEB 21
- Slides
  - Regex
  - Shell Features
- Reading
  - Additional Scripting - Cookbook 10
  - Shell Speed
  - Shell troubleshooting
- Lectures
- Screenshots/Helps
- Assignment
  - Shell Script 3
  - Regex

Week 8 (Feb 28, Mar 2)

- Slides
- Reading
  - Quick Shell - cookbook 18
  - Troubleshooting - cookbook 19
- Lectures
- Screenshots/Helps
  - Sample scripting exam
  - Sample solution other
- Assignment
  - Shell Script 4
  - Shell Script 5

TEST 2

Week 9 (Mar 7,9)

- Slides
  - Terraform
  - Terraform2
  - Terraform3
- Reading
  - Read chapter 2 in “Terraform up and running 2nd edition” found on Oreilly (safarionline) from library.dixie.edu website.
- Lectures
- Review AWS
- Infrastructure as Code
- Terraform
- Screenshots/Helps
- Assignment
  - Terraform
  - Terraform 2

Week Mar 13-19

SPRING BREAK

Week 10 (Mar 21,23)

- Slides
  - Automation with Ansible
  - Ansible Playbooks
  - Ansible Playbooks 2
- Reading
  - Ansible variables
- Lectures
  - Configuration management with Ansible
- Screenshots/Helps
- Assignment
  - Ansible 1
  - Ansible 2

Week 11 (Mar 28,30)

- Slides
  - Ansible Roles
  - Ansible Advanced stuff
- Reading
- Lectures
  - Ansible Roles
  - Example of Roles
- Screenshots/Helps
- Assignment
  - Ansible 3

Terraform and Ansible Exam

Week 12 ( Apr 4,6)

- Slides
  - Python
- Reading
Week 13 (Apr 11,13)

- Slides
  - Salt
- Reading
  - Salt states
  - Basic usage
  - More complex states
- Screenshots/Helps
- Assignment
  - Salt 1

Week 14 (Apr 18,20)

- Slides
  - Salt
- Reading
- Lectures
  - Salt 1
  - Salt 2
- Screenshots/Helps
  - Salt example file
- Assignment
  - Salt 2
  - Salt 3

Week 15 (Apr 25,27)

- SALT
- REVIEW
- EXAM