Schedule and outline

Texts

- [DevOps for Web Development](Abbreviated as DWD below)
- [The phoenix project]

Week 1

- Topics:
  - Continuous Deployment & Integration
  - Git

- Readings:
  - [What is Dev Ops]
  - [Youtube video]
  - [DWD-ch 1]
  - [Continuous Integration]
  - [Git intro]
  - [DWD-ch 2]
  - [The phoenix project] Chapters 1 - 2

- Slides:
  - [Intro]
  - [More Intro]
  - [Git basics]
  - [Git hello world]
  - [Basic git]
  - [Branching and merging]

- Assignments:
  - [Project 1]

Week 2

- Topics:
  - Cloud overview
  - Our sample petClinic project

- Readings:
  - The phoenix project up through chapter 6
  - [DWD-ch 2]
  - [DWD-ch 3]

- Slides:
  - [Chapter 2]

- Notes:
  - [Aws notes]

- Assignments:
  - [Assignment]
  - [Assignment]
  - [Assignment]

Week 3

- Topics:
  - Jenkins
  - The phoenix project up through chapter 10
Week 4

- Topics:
  - Jenkins - Deployment to Tomcat
- Assignment
- Readings:
  - reading phoenix up through chapter 14
  - wip

Week 5

Exam 1

- Topics:
  - Vagrant
- Readings:
  - phoenix up through chapter 18
- Slides:
  - Slides

Week 6

- Topics:
  - Vagrant
  - AWS vagrant
- Slides:
  - Slides
  - AWS Vagrant
  - Vagrant local
  - Vagrant AWS
- Readings:
  - phoenix up through chapter 22

Week 7

- Topics:
  - Automated Configuration (Configuration Management)
  - Ansible
  - Ansible Playbooks
  - Vagrant + Ansible
- Readings:
  - How ansible works
  - Benefits of CM
  - Ansible Getting Started (Also covered in my slides)
  - Ansible Playbooks Intro
  - More about playbooks
  - phoenix up through chapter 26
- Slides:
  - Ansible 1
  - Ansible 2
- Assignments:
  - Ansible - Tomcat
Week 8

- Topics:
  - Continue with automation
- Readings:
  - See above
- Assignments:
  - Ansible & Vagrant on AWS

Week 9

- Fall Break
- Review: Kahoot
- Exam 2 (Written in testing center, Hands-on in class)
- Topics:
- Readings:
  - phoenix up through chapter 30

Week 10

- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through chapter 34
- AWS Assignment

Week 11

- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through end of book
- AWS Assignment

Week 12

- AWS Exam (Exam 3)
- Topics:
  - Docker
- Readings:
- Slides:
  - intro
  - files app.py requirements.txt
- Assignment

Week 13

- Topics:
  - Continuous Monitoring
  - Nagios
- Readings:
  - Continuous Monitoring
Week 14

- Microservices
- Readings:
  - [Monolithic pattern](#)
  - [Microservice pattern](#)
  - [Breaking away from the monolith](#)
  - [The 12 factor app](#)
- Slides
- Assignment

Thanksgiving

Week 15

Monday - Presentations

Wednesday - Presentations

Week 16

Monday - Presentations

Wednesday - Presentations/Review

Final - See date on syllabus