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
  - 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:
  - Docker
  - Assignment

**Week 13**

- Topics:
  - Continuous Monitoring
  - Nagios
- Readings:
  - Continuous Monitoring
- Video:
  - Monitoring for DevOps and Microservices
Week 14

- Microservices
- Readings:
  - Monolithic pattern
  - Microservice pattern
  - Breaking away from the monolith
  - The 12 factor app

Week 15

Monday - Presentations
Wednesday - Presentations

Week 16

Monday - Presentations
Wednesday - Presentations/Review

Final - See date on syllabus