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
- **Assignments:**
  - [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
- Slides
- Assignment

Thanksgiving

Week 15

Monday - Presentations
Wednesday - Presentations

Week 16

Monday - Presentations
Wednesday - Presentations/Review

Final - See date on syllabus