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
- Slides
- Slides
- Assignment

Week 2

- Topics:
  - AWS
- Readings:
  - The phoenix project up through chapter 6
- Aws notes
- Assignment
- Assignment

Week 3

- Topics:
  - Jenkins
- Readings:
  - DWD-ch 2
  - DWD-ch 3
  - The phoenix project up through chapter 10
- Slides
- Assignment
- Assignment
- Assignment
**Week 4**

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

**Week 5**

Exam 1

- **Readings:**
  - phoenix up through chapter 18

**Week 6**

- Topics:
  - Vagrant
  - AWS vagrant
- **Slides**
- **Slides**
- **Slides**
- **Slides**
- **Vagrant and AWS Screens**
- **AWS AMI Screens**
- **Assignment**
- **Readings:**
  - phoenix up through chapter 22

**Week 7**

- Topics:
  - Google Cloud Platform
  - Vagrant on GCP
- **GCP Screens**
- **Assignment**
- **Readings:**
  - phoenix up through chapter 26

**Week 8**

- 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)
Week 9
- Review: Kahoot
- Exam 2 (Written in testing center, Hands-on in class)
- Topics:
  - AWS
- Readings:
  - Materials given
- AWS Assignment

Week 10
- Topics:
  - AWS
- Readings:
  - Materials given
- AWS Assignment

Week 11
- Topics:
  - Chef
  - Docker
- AWS Exam (Exam 3)
- Readings:
  - Docker
- Assignment
- Assignment

Week 12
- Topics:
  - Docker

Week 13
- Continuous Monitoring:
  - Nagios
- Readings:
  - Continuous Monitoring
- Video:
  - Monitoring for DevOps and Microservices
- Slides
- Assignment
Week 14

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

Week 15

Final - See date on syllabus