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
  - phoenix up through chapter 34
- AWS Assignment

Week 10

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

Week 11

- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through chapter 42
- AWS Assignment

Week 12

- AWS Exam (Exam 3)
- Topics:
  - Docker
- Readings:
  - Docker
- Assignment

Week 13

- Topics:
  - Continuous Monitoring
- Assignment
- Slides

Week 14
Week 15

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

Final - See date on syllabus