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

Week 2

Topics:
- AWS

Readings:
- The phoenix project up through chapter 6

Week 3

Topics:
- Jenkins

Readings:
- DWD-ch 2
- DWD-ch 3
- The phoenix project up through chapter 10
**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)
• Ansible Playbooks Intro
• More about playbooks
• phoenix up through chapter 30

• Slides
• Slides
• Assignment
• Assignment
• Exam 2

---

**Week 9**

• 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