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 DevOps
  - 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

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**Week 5**

Exam 1

- Readings:
  - phoenix up through chapter 18

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**Week 6**

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

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**Week 7**

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

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**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
  - phx up through chapter 34
- AWS Assignment

Week 10

- Topics:
  - AWS
- Readings:
  - Materials given
  - phx up through chapter 38
- AWS Assignment

Week 11

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

Week 12

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

Week 13

- Topics:
  - Docker

Week 14
• Continuous Monitoring:
  ◦ Nagios
• Readings:
  ◦ Continuous Monitoring
• Video:
  ◦ Monitoring for DevOps and Microservices
• Slides
• Assignment

Week 15

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

Final - See date on syllabus