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)
• Ansible Playbooks Intro
• More about playbooks
• phoenix up through chapter 30

• Slides
• Slides
• Assignment
• Assignment
• Exam 2

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**Week 9**

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

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**Week 10**

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

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**Week 11**

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

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**Week 12**

- Topics:
  - Docker

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**Week 13**

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

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**Week 14**
- Microservices
- Readings:
  - Monolithic pattern
  - Microservice pattern
  - Breaking away from the monolith
  - The 12 factor app
- Slides
- Assignment

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**Week 15**

Final - See date on syllabus