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:
  - Intro
  - More Intro
  - Git basics
  - Git hello world
  - Basic git
  - Branching and merging
- Assignments:
  - Project 1

Week 2

- Topics:
  - Cloud overview
  - Our sample petClinic project
- Readings:
  - The phoenix project up through chapter 6
  - DWD-ch 2
  - DWD-ch 3
- Slides:
  - Chapter 2
- Notes:
  - Aws notes
- Assignments:
  - Assignment
  - Assignment
  - Assignment

Week 3

- Topics:
  - Jenkins
  - The phoenix project up through chapter 10
• Slides:
  o Slides
• Assignments:
  o Assignment
  o Assignment

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**Week 4**

• Topics:
  o Jenkins - Deployment to Tomcat
• Assignment
• Readings:
  o reading phoenix up through chapter 14
  o wip

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**Week 5**

Exam 1

• Topics:
  o Vagrant
• Readings:
  o phoenix up through chapter 18
• Slides:
  o Slides

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**Week 6**

• Topics:
  o Vagrant
  o AWS vagrant
• Slides:
  o Slides
  o Slides
  o AWS Vagrant
  o Vagrant local
  o Vagrant AWS
• Readings:
  o phoenix up through chapter 22

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**Week 7**

• Topics:
  o Automated Configuration (Configuration Management)
  o Ansible
  o Ansible Playbooks
  o Vagrant + Ansible
• Readings:
  o How ansible works
  o Benefits of CM
  o Ansible Getting Started (Also covered in my slides)
  o Ansible Playbooks Intro
  o More about playbooks
  o phoenix up through chapter 26
• Slides:
  o Ansible 1
  o Ansible 2
• Assignments:
  o Ansible - Tomcat
Week 8

- Topics:
  - Continue with automation
- Readings:
  - See above
- Assignments:
  - Ansible & Vagrant on AWS

Week 9

Fall Break

- Review: Kahoot
- Exam 2 (Written in testing center, Hands-on in class)
- Topics:
- Readings:
  - phoenix up through chapter 30

Week 10

- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through chapter 34
- AWS Assignment

Week 11

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

Week 12

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

Week 13

- Topics:
  - Continuous Monitoring
  - Nagios
- Readings:
  - Continuous Monitoring
- Video:
  - Monitoring for DevOps and Microservices


**Week 14**

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

Thanksgiving

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**Week 15**

Monday - Presentations

Wednesday - Presentations

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**Week 16**

Monday - Presentations

Wednesday - Presentations/Review

Final - See date on syllabus