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:
  - 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:
Week 4

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

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

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### 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

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### Week 10
- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through end of book
- AWS Assignment

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### Week 11
- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through chapter 42
- AWS Assignment

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### Week 12
- AWS Exam (Exam 3)
- Topics:
  - Docker
- Readings:
  - Docker
- Assignment

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### Week 13
Topics:
- Continuous Monitoring
- Nagios

Readings:
- Continuous Monitoring

Video:
- Monitoring for DevOps and Microservices

Assignment
- Slides

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**Week 14**

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

Assignment
- Slides

Thanksgiving

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**Week 15**

Monday - Presentations * Ashby, Behunin, Carter, Cram, Eames, Ercanbrack, Faoasau

Wednesday - Presentations * Fawcett, Graff, Hammons, Hansen, Heckenliable, Henning, Johnson

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**Week 16**

Monday - Presentations * Klafke, Leatherman, McCabe, Muusse, Nenbee, Santistevan, Seegmiller

Wednesday - Presentations/Review * Smith, Smith, Tyler, VanDeberg

Final - See date on syllabus