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
- 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

Week 5

Exam 1

* Readings:
  * phoenix up through chapter 18

Week 6

* Topics:
  * Vagrant
  * AWS vagrant
* 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)
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

Week 10

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

Week 11

- Topics:
  - AWS
- Readings:
  - Materials given
  - phoenix up through chapter 42
- 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

**Week 15**

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

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

**Week 16**

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

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

Final - See date on syllabus