Schedule and outline

Week 1 (Aug 22 - 26)

- Topics:
  - Continuous Deployment & Integration
  - Git

- Readings:
  - What is Dev Ops
  - Youtube video
  - Version Control

- Notes:

- Assignments:
  - Assignment 1 - GIT

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Week 2 (Aug 29 - Sep 2)

- Topics:
  - Cloud overview
  - Scripting
  - YAML

- Readings:
  - Learn X in Y Minutes
  - YAML A Beginners Guide

- Notes:

- Assignments:
  - Assignment 2 - Scripting
  - Assignment 3 - YAML

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Week 3 (Sep 6 - 11)

- Topics:
  - The phoenix project (7-10)

- Slides:

- Assignments:
  - Assignment - Jenkins 2
  - Assignment - Jenkins Pipelines

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Week 4 (Sep 13 - 18)

- Topics:
  - Jenkins - Deployment to Tomcat

- Assignments:
  - Assignment - Jenkins Production

- Readings:
  - reading phoenix (11-14)
  - wip

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Week 5 (Sep 20 - 25)

Exam 1

- Topics:
Week 6 (Sep 27 - Oct 2)

- Topics:
  - Terraform
- Slides:
  - Vagrant Slides
  - Terraform Slides
  - Terraform From Jenkins
- Assignments:
  - Vagrant local
  - Terraform
  - Terraform and Jenkins
- Readings:
  - reading phoenix (15-18)

Week 7 (Oct 4 - 9)

- Topics:
  - Automated Configuration (Configuration Management)
  - Ansible
  - Ansible Playbooks
  - Vagrant + Ansible
- Readings:
  - Ansible vs Terraform
  - How ansible works
  - Benefits of CM
  - Ansible Getting Started (Also covered in my slides)
  - Ansible Playbooks Intro
  - reading phoenix (23-26)
- Slides:
  - Ansible 1
  - Ansible 2
- Assignments:
  - Ansible - Users

Week 8 (Oct 11 - 14)

Fall Break

- Topics:
  - Continue with automation
- Readings:
  - See above
- Assignments:
  - Ansible - Tomcat

Week 9 (Oct 18 - 23)

- Review: Kahoot
- Exam 2
Week 10 (Oct 25 - 30)

- Topics:
- Readings:
- Slides:
- Assignments:

Week 11 (Nov 1 - 6)

- Topics:
- More docker c*
- Deploy using Elastic Beanstalk on AWS
- Slides:
- Readings:
- Assignments:

Week 12 (Nov 8 - 13)

- Topics:
- Guest speakers?
- Ben @ O.C. Tanner
- Brock @ seint nov 12
- Readings:
- Assignments:

Week 13 (Nov 15 - 20)

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

Week 14 (Nov 22)

Thanksgiving

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

- Slides
- Assignments:
  - Final paper on Phoenix
  - Assignment - Presentation

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**Week 15 (Nov 29 - Dec 4)**

- Presentations

Final - See date on syllabus