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
- 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
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