Schedule and outline

Texts

- [DevOps for Web Development](#) (Abbreviated as DWD below)
- [The phoenix project](#)

Week 1 (Aug 24 - 28)

- Topics:
  - Continuous Deployment & Integration
  - Git
- Readings:
  - [What is Dev Ops](#)
  - [Youtube video](#)
  - [DWD-ch 1](#)
  - [Continuous Integration](#)
  - [Git intro](#)
  - [Version Control](#)
  - [DWD-ch 2](#)
  - [The phoenix project] Chapters 1 - 2
- Slides:
  - [Intro](#)
  - [More Intro](#)
  - [Git basics](#)
  - [Git hello world](#)
  - [Basic git](#)
  - [Branching and merging](#)
- Notes:
  - [Create EC2 instance](#)
- Assignments:
  - [Assignment 1 - AWS](#)

Week 2 (Aug 31 - Sep 4)

- Topics:
  - Cloud overview
  - Connecting to EC2 again
  - Our sample petClinic project
  - Jenkins
- Readings:
  - [The phoenix project] (3-6)
  - [DWD-ch 2](#)
  - [DWD-ch 3](#)
- Slides:
  - [Chapter 2](#)
  - [Slides](#)
- Notes:
- Assignments:
  - [Assignment 2 - Git](#)
  - [Assignment 3 - Production VM](#)
  - [Assignment 4 - Jenkins](#)
Week 3 (Sep 7 - 11)

- Topics:
  - The phoenix project (7-10)
- Slides:
- Assignments:
  - Assignment - Jenkins 2
  - Assignment - Jenkins Pipelines

Week 4 (Sep 14 - 18)

- Topics:
  - Jenkins - Deployment to Tomcat
- Assignments:
  - Assignment - Jenkins Production
- Readings:
  - reading phoenix (11-14)
  - wip

Week 5 (Sep 21 - 25)

Exam 1

- Topics:
  - Vagrant
- Readings:
  - reading phoenix (15-18)
- Slides:
  - Slides

Week 6 (Sep 28 - Oct 2)

- Topics:
  - Terraform
- Slides:
  - Vagrant Slides
  - Terraform Slides
  - Terraform From Jenkins
- Assignments:
  - Vagrant local
  - Terraform
  - Terraform and Jenkins
- Readings:
  - reading phoenix (19-22)

Week 7 (Oct 5 - 9)

- 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 8 (Oct 12 - 14)

Fall Break

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

Week 9 (Oct 19 - 23)

- Review: Kahoot
- Exam 2
- Topics:
- Readings:
  - reading phoenix (27-30)
- Assignments:
  - Cloud 1

Week 10 (Oct 26 - 30)

- Topics:
  - Cloud
- Readings:
  - Materials given
  - reading phoenix (31-34)
- Assignments:
  - Cloud 2
  - Cloud 3

Week 11 (Nov 2 - 6)

- Topics:
  - Cloud
- Readings:
  - Materials given
  - phoenix up through end of book
- Assignments:
  - Cloud 4

Week 12 (Nov 9 - 13)

- AWS Exam (Exam 3)
- Topics:
  - Docker
- Readings:
- Slides:
• intro
• files app.py requirements.txt
• Assignments:
  • Assignment - Docker

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**Week 13 (Nov 16 - 20)**

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

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**Week 14 (Nov 23)**

*Thanksgiving*

• Microservices
• Readings:
  • Monolithic pattern
  • Microservice pattern
  • Breaking away from the monolith
  • The 12 factor app
• Slides
• Assignments:
  • Assignment - Presentation
  • Final paper on Phoenix

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**Week 15 (Nov 30 - Dec 4) (Online only this week)**

Monday - Presentations Wednesday - Presentations

Final - See date on syllabus