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:
- 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:
  • [Slides]
• Assignments:
  • [Assignment]
  • [Assignment]

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**Week 4**

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

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**Week 5**

Exam 1

• Topics:
  • Vagrant
• Readings:
  • phoenix up through chapter 18
• Slides:
  • [Slides]

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**Week 6**

• Topics:
  • Vagrant
  • AWS vagrant
• Slides:
  • [Slides]
  • [Slides]
  • [AWS Vagrant]
  • Vagrant local
  • Vagrant AWS
• Readings:
  • phoenix up through chapter 22

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**Week 7**

• 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 26
• Slides:
  • [Ansible 1]
  • [Ansible 2]
• Assignments:
  • [Ansible - Tomcat]
Week 8

- **Topics:**
  - Continue with automation
- **Readings:**
  - See above
- **Assignments:**
  - Ansible & Vagrant on AWS

Week 9

*Fall Break*

- Review: Kahoot
- Exam 2 (Written in testing center, Hands-on in class)
- **Topics:**
- **Readings:**
  - phoenix up through chapter 30

Week 10

- **Topics:**
  - AWS
- **Readings:**
  - Materials given
  - phoenix up through chapter 34
  - AWS Assignment

Week 11

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

Week 12

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

Week 13

- **Topics:**
  - Continuous Monitoring
  - Nagios
- **Readings:**
  - Continuous Monitoring
Week 14

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

Thanksgiving

Week 15

Monday - Presentations

Wednesday - Presentations

Week 16

Monday - Presentations

Wednesday - Presentations/Review

Final - See date on syllabus