Schedule and outline

Texts

- **DevOps for Web Development** (Abbreviated as DWD below)
- **The phoenix project**

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**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

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**Week 2**

- Topics:
  - AWS
- Readings:
  - The phoenix project up through chapter 6
- *Aws notes*
- Assignment
- Assignment

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**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)
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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

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Week 14

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

Thanksgiving

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