Schedule and outline

Texts

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

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Week 1

- Topics:
  - TCP/HTTP Review / Name-based vs ip-based hosting
  - Apache
  - NGINX
  - IIS

- Readings:
  - Apache name-based
  - Apache ip-based
  - Virtual Host in depth

- Slides

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Week 2

- Topics:
  - SSL

- Readings:
  - EC2 Allow Firewall
  - Easy SSL
  - Easier SSL - Lets Encrypt

- Assignment

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Week 3

- Topics:
  - Continuous Deployment & Integration
  - Git
  - Finish SSL
Week 4

- Topics:
  - GIT
  - Continuous Deployment & Integration

- Readings:
  - Git intro
  - DWD-ch 2

- Slides
- Assignment
- Assignment
- Exam 1

Week 5

- Topics:
  - Jenkins

- Readings:
  - DWD-ch 2
  - DWD-ch 3

- Slides
- Assignment
- Assignment
- Assignment

Week 6

- Topics:
  - Jenkins - Deployment to Tomcat

- Assignment

Exam 2

Week 7
Week 8

- Topics:
  - AWS vagrant
- Slides
- Aws notes
- Vagrant and AWS Screens
- AWS AMI Screens

Week 9

- Topics:
  - Google Cloud Platform
  - Automated Configuration (Configuration Management)
  - Ansible
- Readings:
  - How ansible works
  - Benefits of CM
  - Ansible Getting Started (Also covered in my slides)
- Slides
- GCP Screens
- Assignment

Week 10

- Topics:
  - Ansible Playbooks
- Readings:
  - Ansible Playbooks Intro
  - More about playbooks
- Slides
- Assignment

Week 11

- Topics:
  - More ansible
  - Vagrant + Ansible
- Assignment
- Assignment
Week 12

• Topics:
  ○ Chef
  ○ Docker
• Exam 3
• Readings:
  ○ Docker
  ○ Assignment
  ○ Assignment

Week 13

• Topics:
  ○ Docker
  ○ Thanksgiving

Week 14

• Continuous Monitoring:
  ○ Nagios
• Readings:
  ○ Continuous Monitoring
• Video:
  ○ Monitoring for DevOps and Microservices
• Slides
• Assignment

Week 15

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

Final - See date on syllabus