Schedule and outline

Texts

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

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](#)
- [Slides](#)
- [Slides](#)
- [Nginx Howto](#)
- [IIS Howto](#)
- [Register AWS](#)
- [EC2 Create](#)
- [Slides](#)
- [Assignment](#)

Week 2

- Topics:
  - SSL
- Readings:
  - [EC2 Allow Firewall](#)
  - [Easy SSL](#)
  - [Easier SSL - Lets Encrypt](#)
- [Assignment](#)
- [Assignment](#)
- [Slides](#)

Week 3

- Topics:
  - Continuous Deployment & Integration
  - Git
  - Finish SSL
• Readings:
  - [What is Dev Ops](#)
  - [Youtube video](#)
  - [DWD-ch 1](#)
  - [Continuous Integration](#)

• [Slides](#)
• [Assignment](#)

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**Week 4**

• Topics:
  - [GIT](#)
  - Continuous Deployment & Integration

• Readings:
  - [Git intro](#)
  - [DWD-ch 2](#)

• [Slides](#)
• [Assignment](#)
• [Assignment](#)
• [Assignment](#)

• Exam 1

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**Week 5**

• Topics:
  - Jenkins

• Readings:
  - [DWD-ch 2](#)
  - [DWD-ch 3](#)

• [Slides](#)
• [Assignment](#)
• [Assignment](#)
• [Assignment](#)

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**Week 6**

• Topics:
  - Jenkins - Deployment to Tomcat

• [Assignment](#)

Exam 2

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**Week 7**
**Week 8**

- Topics:
  - Vagrant
- Slides
- Slides
- Assignment

**Week 9**

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

- 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