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

• 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:
  - 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