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

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**Week 2**

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

- [Assignment](#)
- [Assignment](#)
- [Slides](#)

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**Week 3**

- **Topics:**
  - Continuous Deployment & Integration
  - Git
  - Finish SSL
• Readings:
  o What is Dev Ops
  o Youtube video
  o DWD-ch 1
  o Continuous Integration

• Slides
• Assignment

Week 4

• Topics:
  o GIT
  o Continuous Deployment & Integration

• Readings:
  o Git intro
  o DWD-ch 2

• Slides
• Assignment
• Assignment
• Exam 1

Week 5

• Topics:
  o Jenkins

• Readings:
  o DWD-ch 2
  o DWD-ch 3

• Slides
• Assignment
• Assignment
• Assignment

Week 6

• Topics:
  o Jenkins - Deployment to Tomcat

• Assignment

Exam 2

Week 7
• Topics:
  • Vagrant

• Slides

• Slides

• Assignment

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**Week 8**

• Topics:
  • AWS vagrant

• Slides

• Aws notes

• Vagrant and AWS Screens

• AWS AMI Screens

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**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

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**Week 10**

• Topics:
  • Ansible Playbooks

• Readings:
  • Ansible Playbooks Intro
  • More about playbooks

• Slides

• Assignment

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**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