# 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:
  - 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