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:**
  - *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
• 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