**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**

• **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