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
Assignment
Exam 1

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**Week 5**

- Topics:
  - Jenkins

Readings:
  - DWD-ch 2
  - DWD-ch 3

Slides
Assignment
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:
- Vagrant
- Slides
- Slides
- Assignment

Week 9

Topics:
- AWS vagrant
- Slides
- Aws notes
- Vagrant and AWS Screens
- AWS AMI Screens

Readings:
- How ansible works
- Benefits of CM
- Ansible Getting Started (Also covered in my slides)

Week 10

Topics:
- Ansible Playbooks
- Slides
- Assignment

Readings:
- Ansible Playbooks Intro
- More about playbooks

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