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

**Week 4**

Topics:
- GIT
- Continuous Deployment & Integration

Readings:
- Git intro
- DWD-ch 2

Slides

Assignment

Assignment

Assignment

Exam 1

**Week 5**

Topics:
- Jenkins

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

Slides

Assignment

Assignment

Assignment

**Week 6**

Topics:
- Jenkins - Deployment to Tomcat

Assignment

Exam 2

**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