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

Week 4

• Topics:
  ◦ GIT
  ◦ Continuous Deployment & Integration

• Readings:
  ◦ Git intro
  ◦ DWD-ch 2

• Slides
• 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
• Topics:
  o Vagrant

• Slides

• Slides

• Assignment

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**Week 9**

• Topics:
  o AWS vagrant

• Slides
• Aws notes
• Vagrant and AWS Screens
• AWS AMI Screens

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**Week 10**

• Topics:
  o Google Cloud Platform
  o Automated Configuration (Configuration Management)
  o Ansible

• Readings:
  o [How ansible works](#)
  o [Benefits of CM](#)
  o [Ansible Getting Started](#) (Also covered in my slides)

• Slides
• GCP Screens

• Assignment

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**Week 11**

• Topics:
  o Ansible Playbooks

• Readings:
  o [Ansible Playbooks Intro](#)
  o More about playbooks

• Slides
• Assignment

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**Week 12**

• Topics:
  o More ansible
  o Vagrant + Ansible

• Assignment
• Assignment
Week 13

- Exam 3