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

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**Week 7**

• Topics:
- Vagrant

- Slides
- Slides
- Assignment

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**Week 9**

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

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**Week 10**

- 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