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

---

**Week 8**

• Topics:
  o AWS vagrant

• Slides

• Aws notes

• Vagrant and AWS Screens

• AWS AMI Screens

---

**Week 9**

• 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

---

**Week 10**

• Topics:
  o Ansible Playbooks

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

• Slides

• Assignment

---

**Week 11**

• Topics:
  o More ansible
  o 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