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
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
- Topics:
  - Vagrant
- **Slides**
- **Slides**
- **Assignment**

---

**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