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

Week 5

Topics:
- Jenkins

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

Week 6

Topics:
- Jenkins - Deployment to Tomcat

Exam 2

Week 7
Week 8

- Topics:
  - Vagrant

- **Slides**

- **Slides**

- **Assignment**

Week 9

- Topics:
  - AWS vagrant

- **Slides**

- **Aws notes**

- **Vagrant and AWS Screens**

- **AWS AMI Screens**

- **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