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
 Assignment

Week 6

Topics:
- Jenkins - Deployment to Tomcat

Assignment

Exam 2

Week 7
Topics:
- Vagrant

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
- 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