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
• 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

Assignment

---

**Week 8**

- Topics:
  - AWS vagrant

Slides

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