

Lecture Topics

Shell scripting, SSH, and SCP

Packaging applications, containerization with Docker

Local and remote VMs

CI/CD

What is DevOps and Configuration management

Monitoring

Software Quality, Maintainability, and TD

Logging, log analysis, and SLAs

Security of web-applications

Deployment strategies, scaling, and load balancing

Deployment and scaling workshop

Infrastructure as Code

Documentation of software and projects

Wrap-up

week 1

week 2

:

Avg. daily load

μ : 146 req/min

week 14

Project Work

Refactoring to current OS

Refactoring to new tech. stack

Deployment to remote server

Setup CI/CD system

Continued development enter maintenance

Add monitoring

Extend CI/CD with static analysis and tests

Add logging, create SLAs

Security assessment pen testing

Isolation of components into services

Easter break maintenance continues

Encode infrastructure

Sunset system final documentation

Write report