Docker Containerization Essentials

Course outline

- Introducing docker

  - Containerization motivations and implementation

- Containerization fundamentals

  - Container implementation from the Linux kernel

  - Container lifecycle details

  - Core container creation, auditing and management CLI

- Creating images

  - Layered filesystem implementation and performance implications

  - Creating images with Dockerfiles

  - Optimising image builds with multi-stage builds and image design best practices

- Docker volumes

  - Docker volume creation and management

- Docker networking basics

  - Docker native networking model

  - Software defined networks for containers

  - Docker-native single-host service discovery and routing