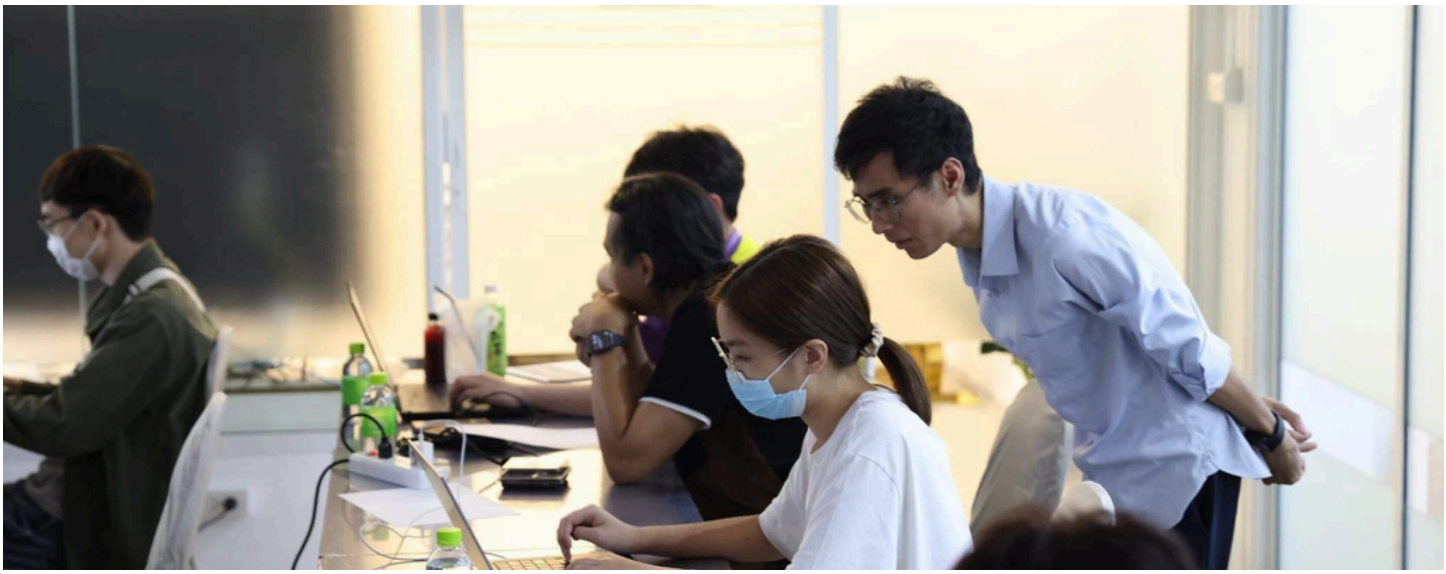
2024

Container Conquest: Dominate with Docker Workshop

DKS
Digital Knowledge Sharing

OVERVIEW

The Container Conquest: Dominate with Docker Workshop course is a learning experience about the basics of Docker, which is an efficient technology used for containerization. Participants will learn about Linux usage, basic Linux commands, working with the VIM text editor, and basic Docker operations including container creation, management, and the use of Docker Compose for orchestrating multiple services simultaneously.



Latest training session photo

OBJECTIVES

- By the end of this workshop, participants will have a solid understanding of Docker fundamentals, including containerization concepts, Docker commands, Dockerfile creation, Docker Compose, and practical Docker use cases.

WHO SHOULD ATTEND?

- Software developers looking to learn Docker for application development.

- DevOps engineers seeking to understand Docker for environment management and team collaboration.
- System administrators interested in using Docker for system management and maintenance.
- Individuals interested in learning containerization and system management in situations requiring flexibility and resource efficiency.
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PREREQUISITES

- Basic knowledge of Linux operating systems.
- Proficiency in Command Line Interface (CLI) usage.

ALL PARTICIPANTS WILL RECEIVE

- One Cloud Servers (VM) per person for training purposes.
- Training manuals/documentation.
- Lunch and refreshments.
- Certification upon completion of the Container Conquest: Dominate with Docker Workshop course.
- Excellent care and attention from instructors and staff.
- Unlimited attendance to the Fundamental Docker Workshop (limited to 5 repeat attendees per training session; if you wish to attend the workshop again, please contact our Facebook Page, Line, Email, or other channels to reserve your seat).

OUTLINE

1. Introduction to Docker
- Overview of containerization
- Docker's role in modern software development
- Benefits of using Docker
2. Getting Started with Docker
- Installing Docker
- Docker architecture overview (Docker Engine, Docker Client, Docker Registry)
- Basic Docker commands (docker run, docker ps, docker images, docker pull)

3. Working with Containers
- Running containers (interactive vs. detached mode)
- Managing container lifecycle (start, stop, restart, remove)
- Inspecting container logs and stats
- Executing commands inside containers
4. Docker Images
- Understanding Docker images
- Building Docker images (docker build)
- Customizing images with Dockerfile
5. Docker Networking
- Networking basics in Docker
- Exposing container ports
- Linking containers
6. Docker Volumes
- Persistent data with Docker volumes
- Managing volumes
7. Docker Compose
- Introduction to Docker Compose
- Writing a Docker Compose file
- Running multi-container applications
8. Best Practices and Tips
- Docker best practices
- Tips for optimizing Docker usage
9. Docker in Production
- Overview of Docker orchestration tools (e.g., Kubernetes)
- Docker in CI/CD pipelines
- Scaling Docker applications

10. Hands-on Project

- Building and deploying a sample application using Docker

11. Q&A and Conclusion

- Recap of key concepts
- Open discussion and Q&A session

Materials Required:

- Laptops with Docker installed (participants)

- Presentation slides
- Sample Dockerfiles and Docker Compose files
- Handouts or digital resources for reference

Pre-requisites:

- Basic understanding of Linux command line
- Familiarity with software development concepts

Target Audience:

- Software developers
- DevOps engineers
- System administrators
- Anyone interested in learning Dock

CONTACT INFORMATION

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