Docker Getting Started

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Section 1 - About the course

Syllabus (part 1)

- About the course

- Introduction to Docker

- Installation of Docker and other tools

- Command line structure - Basic Information

- Containers lifecycle (run, stop, rm)

- Docker Networking Basics

- Container Images - Docker Hub Registry

- Build Images - The Dockerfile Basics

- Persistent Data and Volumes

docker

Syllabus (part 2)

- Docker Compose: The Multi-Container Tool

- Introduction to Container Orchestration (Kubernetes and Docker Swarm)

- Other Resources

Core Objectives:

- Introduce and Understand Linux Containers

- The basis of how Docker works

- How to install the Docker Community Edition

- How to manage image, containers, networks and volumes

- Build images using a Dockerfile

- Tag images and push them to Docker Hub

- Use Docker Compose to deploy Microservices

- Explore the Most Common Use Cases for Docker

- Understand what is container orchestration solution

Prerequisites:

- No paid software required

- PC (Mac/Windows/Linux) with local admin access to install Docker

- Linux basics such as shell terminal, text editing from the command (vim, nano)

- Understand the basics of web and database servers (how they typically communicate, IP's, ports etc.)

- Have a GitHub and Docker Hub account

Resources

- [Slides](#)

- [Exercises and Hands-on Labs](#)

- GitHub repository [dgs19](#)