

Introduction to Docker



Shailendra Chauhan

Microsoft MVP, Technical Consultant and Corporate Trainer

Agenda

- Introduction to Docker
- Docker Platform Tools
- Docker Benefits
- Docker Desktop
- Docker Desktop Installation
- Getting Started with Docker

Introduction to Docker



- A light weight, open and secure platform for developing, shipping and running applications using container technology.
- Provides Container solutions for developers, architects, DevOps, and IT People.
- Run on most Linux distributions, Windows and Mac OS.
- Supported by most of cloud providers like AWS, Azure, Google etc.
- Provide Dev/Test, CI and DevOps platform for many use cases.

Docker Platform Tools

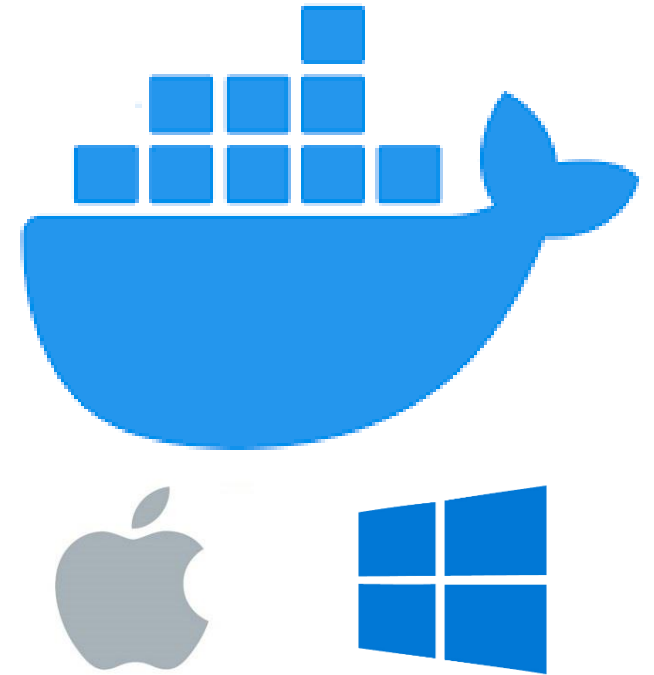
- Docker Desktop for Windows/Mac
 - Desktop Community
 - Desktop Enterprise
- Docker Engine
- Docker CLI
- Universal Control Plane
- Docker Trusted Registry
- Docker Compose

Docker Benefits

- Infrastructure Cost Savings
- Standardization and Productivity
- Isolation
- Security
- Makes app lifecycle efficient and consistent
- Continuous Deployment and Testing
- On Demand Scaling
- Multi-Cloud Platforms Support

Docker Desktop

- An application for Mac and Windows to build production-ready container applications
- Enables to build and test Linux & Windows based applications at local machine
- Available in two editions:
 - Desktop Community
 - Desktop Enterprise



Docker Desktop Installation : Windows

- Windows 10 64-bit: Pro, Enterprise, Education (Build 15063 or later)
- Hyper-V and Containers Windows features must be enabled.
- 4GB system RAM and BIOS-level hardware virtualization support must be enabled in the BIOS settings.

Docker Desktop Installation : Mac

- Mac hardware must be a 2010 or newer model with Intel's hardware support for virtualization.
- macOS must be version 10.13 or newer

Docker Desktop Installation

- The Docker Desktop installation includes :
 - Docker Engine
 - Docker CLI client
 - Docker Compose
 - Docker Machine
 - Kitematic
- Containers and images created with Docker Desktop are shared between all user accounts on machines where it is installed.

Getting Started with Docker