SQL Server in Docker on Windows

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Experience

Microsoft Certified Professional 2012/2014, 2016-2017

Over 10 years of experience

Multi-platform DBA

Community

Guatemala SQL Server User Group – board member

Fields of Experience

MS SQL Server

Variaty of GNU / Linux Distros

Oracle 10-11g

Agenda

01

Inspect Docker on Windows

Have a look on Docker for windows and its Architecture.

02

Docker Features comparison

Compare between versions Docker 1 and 2, and its Features advantages and disadvantages.

03

Demo 1

Check out Docker running and interaction with CLI and features.: Kitematic, Powershell, ADS y VSC.

04

Demo 2

Control, administrate containers in SQL Server perspective.

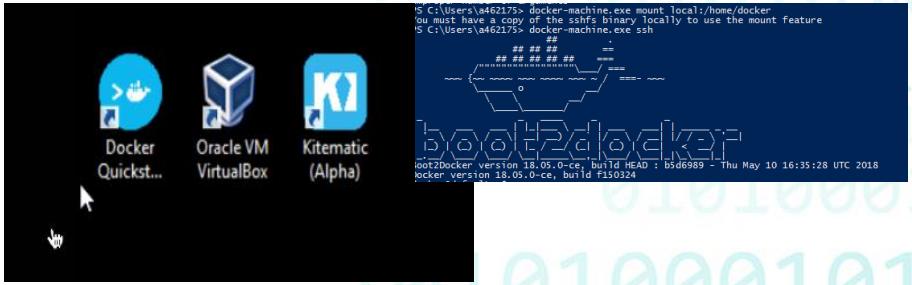
Inspect Docker

Checking Docker on Windows 10 Environment.

Benchmark

Docker Releases

Docker CE V1	Docker CE V2
WIN 7	WIN 10
V-Box **Default**	Hyper-V **Default**
Linux Kernel 3	Linux Kernel 4
Boot2Docker	Mobylinux
.	Kubernetes
Docker Tools	Docker Desktop



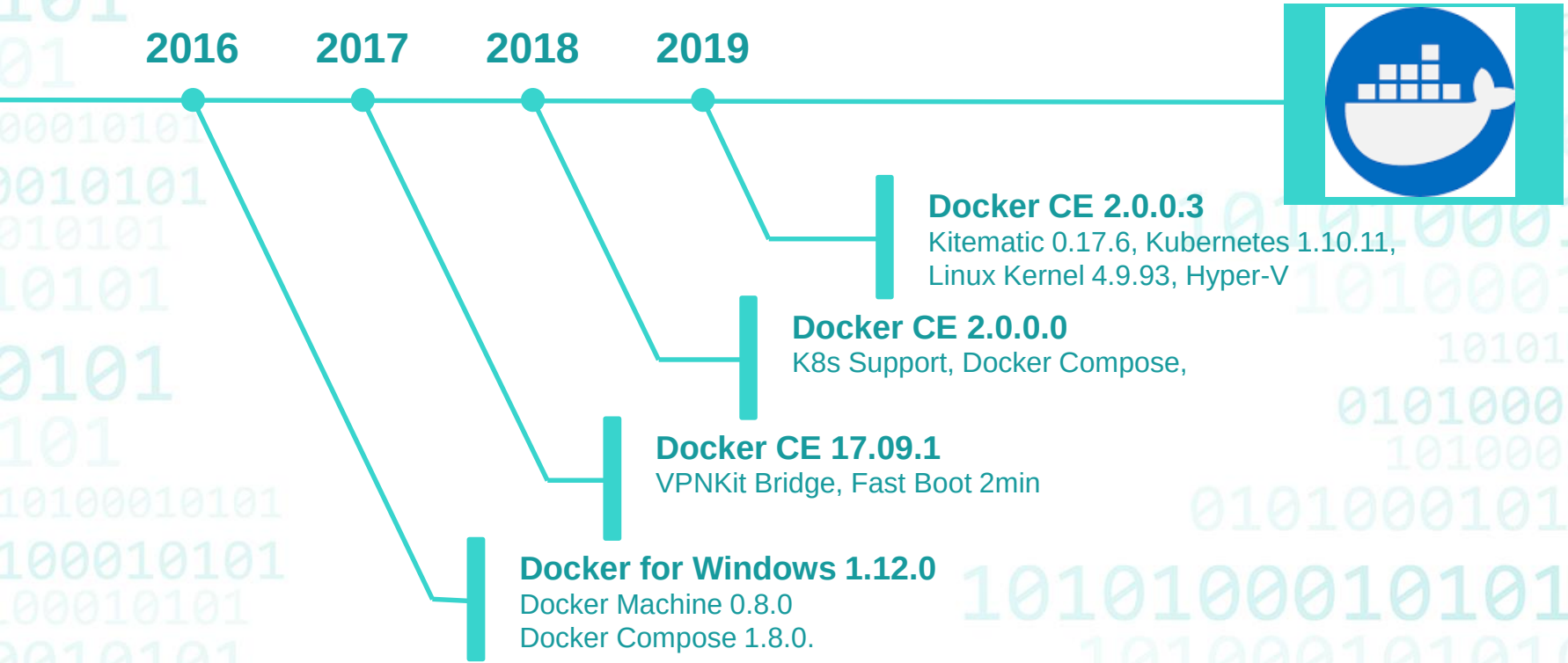
Docker Desktop
Community

Version 2.0.0.3 (31259)
Channel: stable
Build: 8858db3

Engine: 18.09.2
Notary: 0.6.1
Compose: 1.23.2
Credential Helpers: 0.6.0
Machine: 0.16.1
Kubernetes: v1.10.11

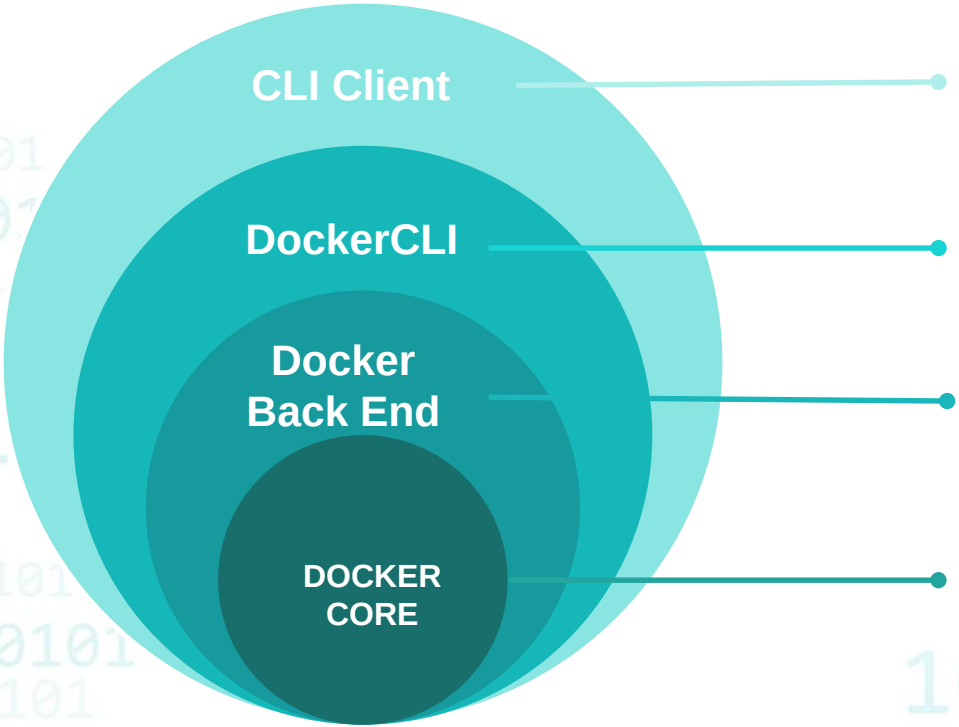
Timeline

Docker Releases



Docker Tiers

Breakdown of tier service communication



CLI Client

Command Line Interface Powershell

Docker CLI

Docker Interpreter interface for Command Line Interface through Powershell console

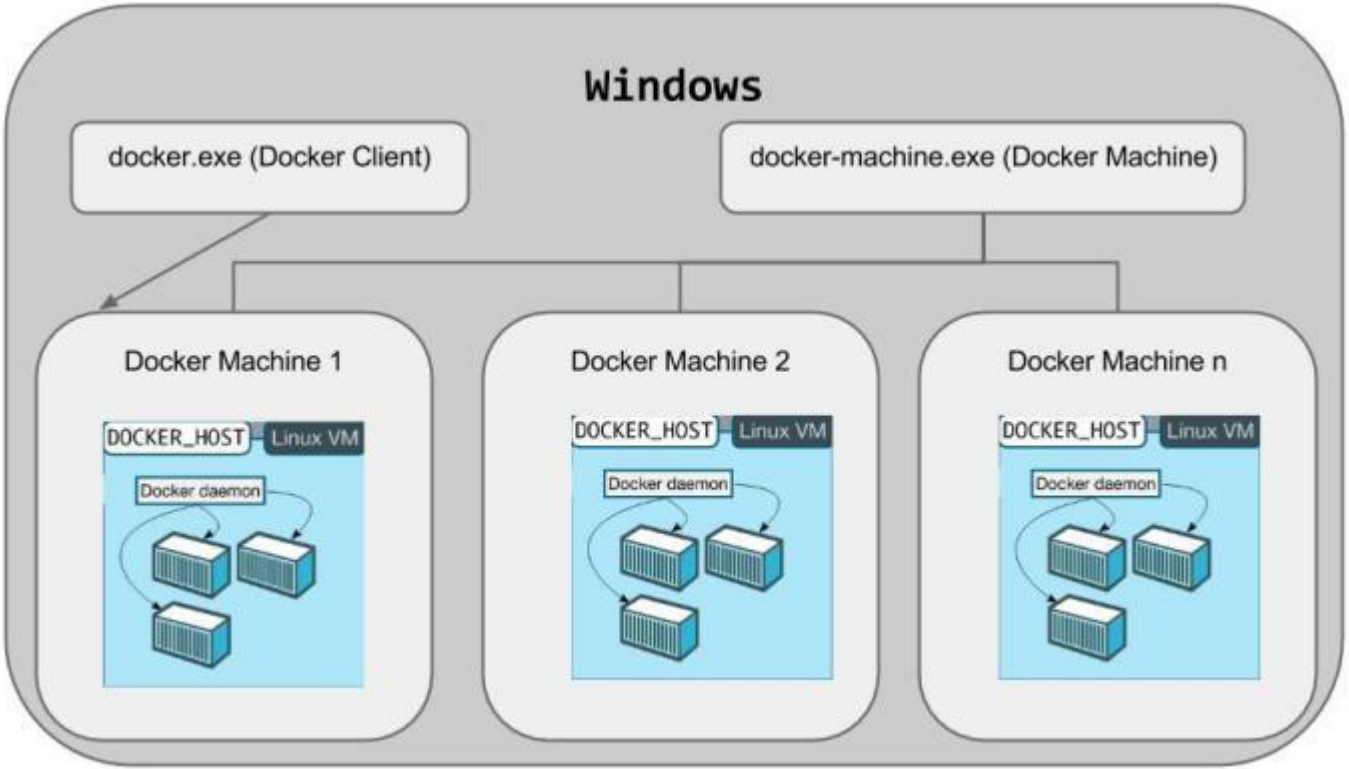
Docker Back End

Set of resources to control the machine and container hub

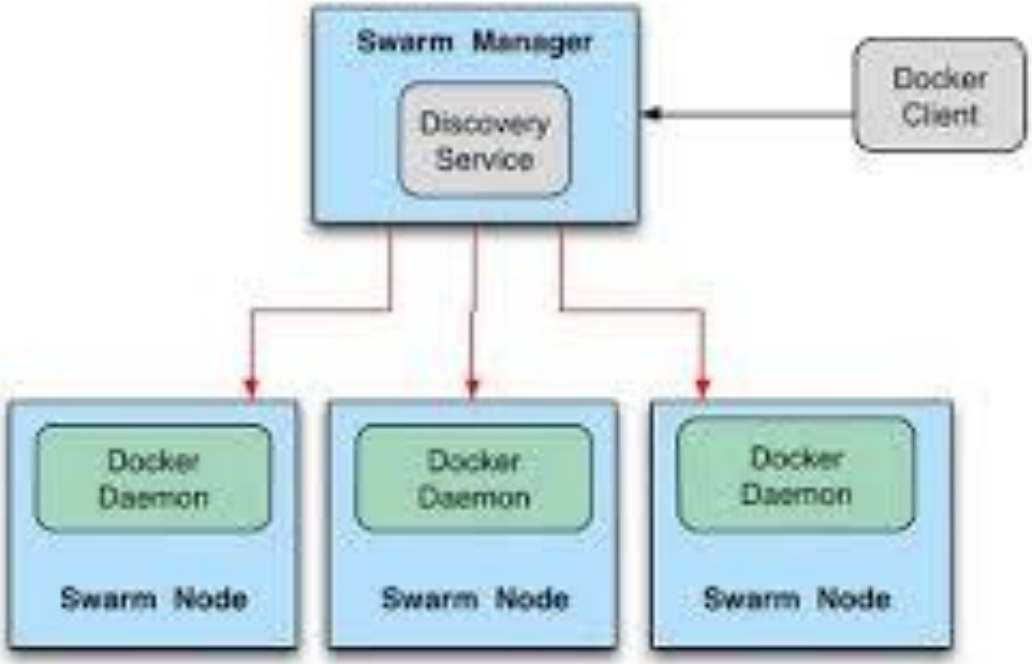
Docker Core

Layer that handles the service and the service container itself.

Basic Layout



Architecture Diagram



Demo 1

Checking Docker on Windows 10 Environment.

Demo 2

Administer Docker on Windows 10 Environment.

Thank you