

Docker for Developer Productivity

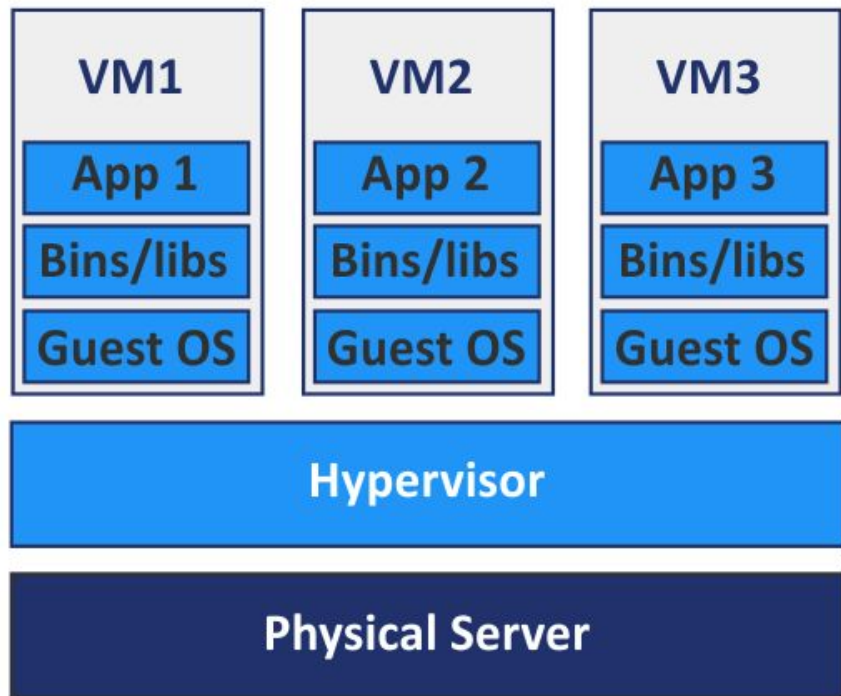
Case Study: ePuskesmas NG Cross Database and
O2O

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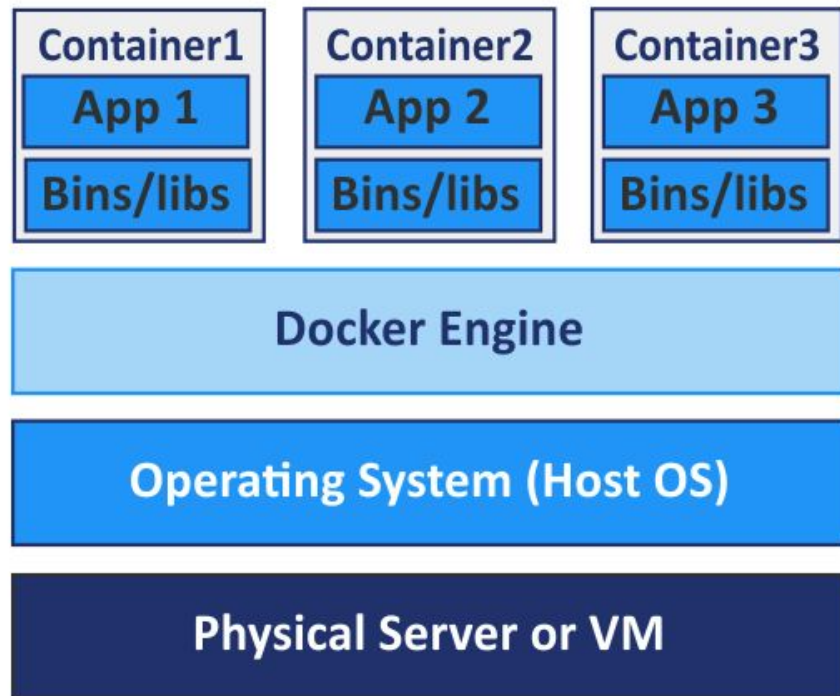
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Virtual Machines



Containers





Simplifying Configuration



Developer Productivity



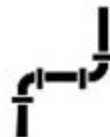
Server Consolidation



Multi-tenancy

8 Docker Use Cases

Code Pipeline Management



App Isolation



Debugging Capabilities



Rapid Deployment



Docker Installation

```
$ sudo apt update
```

```
$ sudo apt install apt-transport-https ca-certificates curl software-properties-common
```

```
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

```
$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic stable"
```

```
$ sudo apt update
```

```
$ sudo apt install docker-ce
```

```
$ sudo systemctl status docker
```

```
$ sudo usermod -aG docker ${USER}
```

Using Docker

```
$ docker run hello-world
```

```
$ docker images
```

```
$ docker ps -a
```

```
$ docker push
```

```
$ docker pull
```

```
$ docker commit
```

```
dll
```

Docker for Cross Database ePuskesmas & O2O

CREATE NETWORK

```
docker network create net212
```

RESTART DOCKER

```
sudo /etc/init.d/docker restart
```

CREATE CONTAINER PORTAINER

```
docker run -d --name portainer01 --ip=172.19.0.212 --net
net212 -p 1000:9000 -v
/var/run/docker.sock:/var/run/docker.sock -v
portainer_data:/data portainer/portainer
```

CREATE PHPMYADMIN

```
docker run --name pma-multi-host --net=net212
--ip=172.19.0.2 -e PMA_ARBITRARY=1 -e
PMA_PORT=3306 -p 8080:80 -d phpmyadmin/phpmyadmin
```

CREATE DIRECTORY VOLUME FOR DOCKER (CUSTOM)

```
sudo mkdir /root/docker_volume
```

CREATE DB1

```
docker run --name DB1 --net=net212 --ip=172.19.0.3 -p
3313:3306 -e MYSQL_ROOT_PASSWORD=IsiPassword -e
MYSQL_ROOT_HOST=172.19.0.2 -v
/root/docker_volume/db1:/var/lib/mysql -d mariadb:10.3 >
/dev/null
```

CREATE DB2

```
docker run --name DB1 --net=net212 --ip=172.19.0.3 -p
3313:3306 -e MYSQL_ROOT_PASSWORD=IsiPassword -e
MYSQL_ROOT_HOST=172.19.0.2 -v
/root/docker_volume/db1:/var/lib/mysql -d mariadb:10.3 >
/dev/null
```

Thank You!