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APRIL 7, 2023
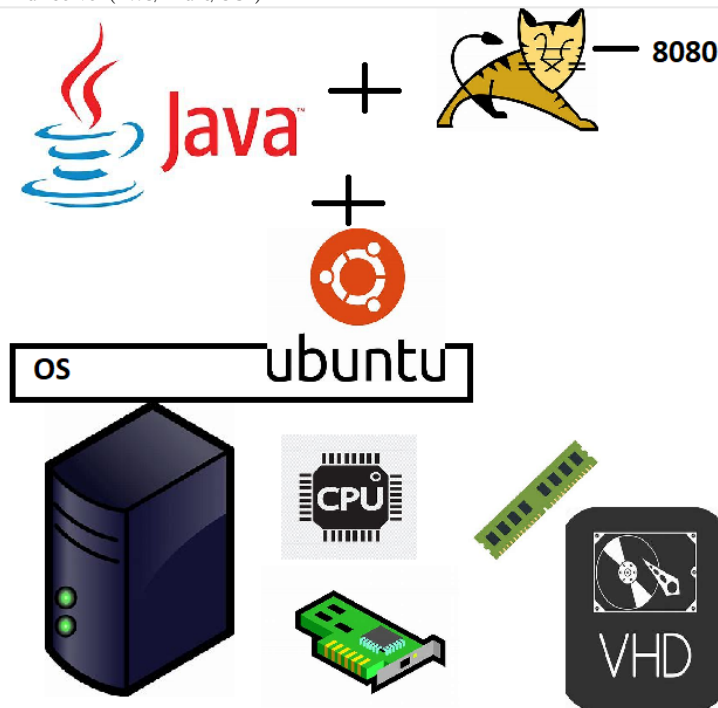
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Docker Contd

- Applications bring revenue to enterprises and to run applications we need servers, os etc

Lets create a linux server and install tomcat in it

- Create a linux server (AWS/Azure/GCP)

- We have experimented in the linux vm
    - network interface gives network connectivity
    - cpu, ram and disk are available
    - to install softwares we have used package manager apt

- Commands

```
sudo apt update
sudo apt install net-tools openjdk-11-jdk tomcat9 -y
# to check network
ifconfig
# to check java
java -version
# to check tomcat
sudo systemctl status tomcat9
```

- We were able to exactly the similar operations inside container as well.

Let me take a application

- This is spring pet clinic application
- Lets try to run this application on linux
- Refer Here
- To build the code

```
sudo apt update
sudo apt install openjdk-17-jdk maven -y
git clone https://github.com/spring-projects/spring-petclinic.git
cd spring-petclinic
# java package
```

```
mvn package
java -jar target/spring-petclinic-3.0.0-SNAPSHOT.jar
```

- Docker way of working
    - We create a docker image (docker packaging format)
        - We need to create Dockerfile
        - push the image to registry (docker hub)
        - create the container using the image anywhere

- Dockerfile

```
FROM amazoncorretto:17-alpine-jdk
LABEL author=khaja
ADD target/spring-petclinic-3.0.0-SNAPSHOT.jar /springpetclinic.jar
EXPOSE 8080
CMD ["java", "-jar", "/springpetclinic.jar"]
```

- Create docker image

```
docker image build -t spc:1.0 .
```

- to create container

```
docker container run -d -P spc:1.0
docker container run -d -P spc:1.0
docker container run -d -P spc:1.0
```

Next Steps

- How is container able to give ip address/storage/process/cpu/ram etc
- Container architectures (3 versions)
- understanding image and container
- docker container life cycle
- containerization
- networking , storage aspects

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