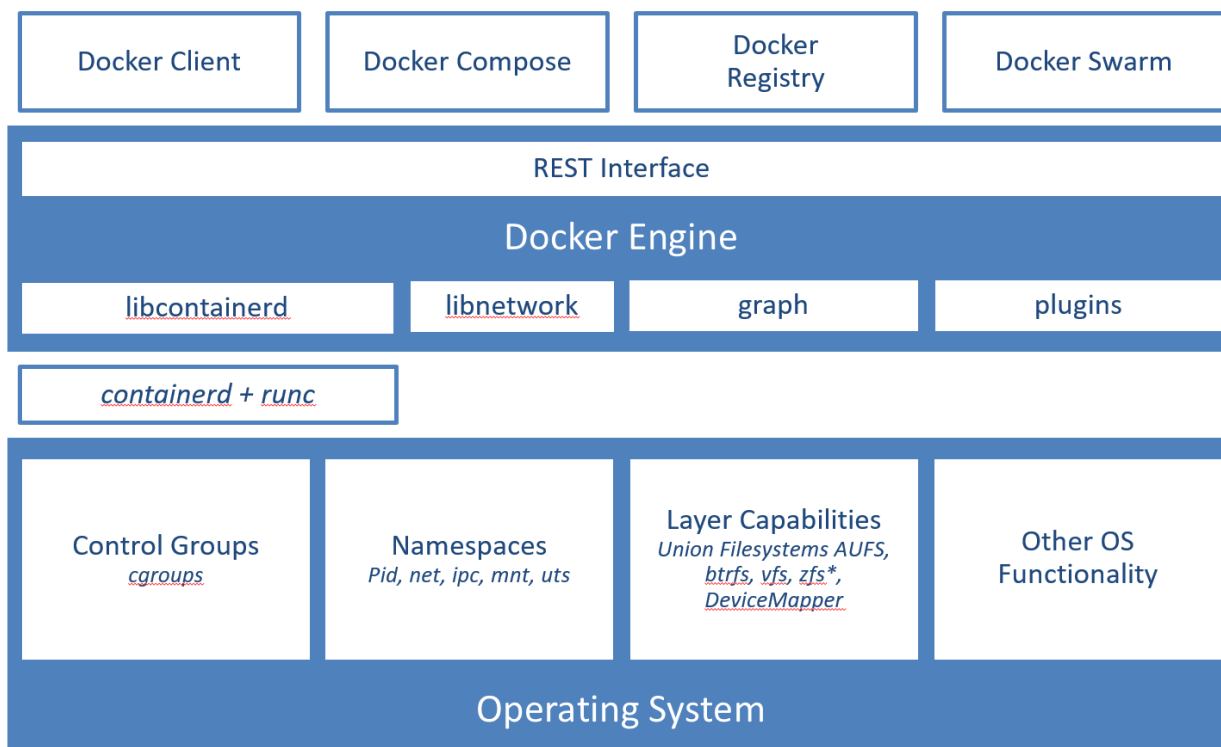


How Docker Works

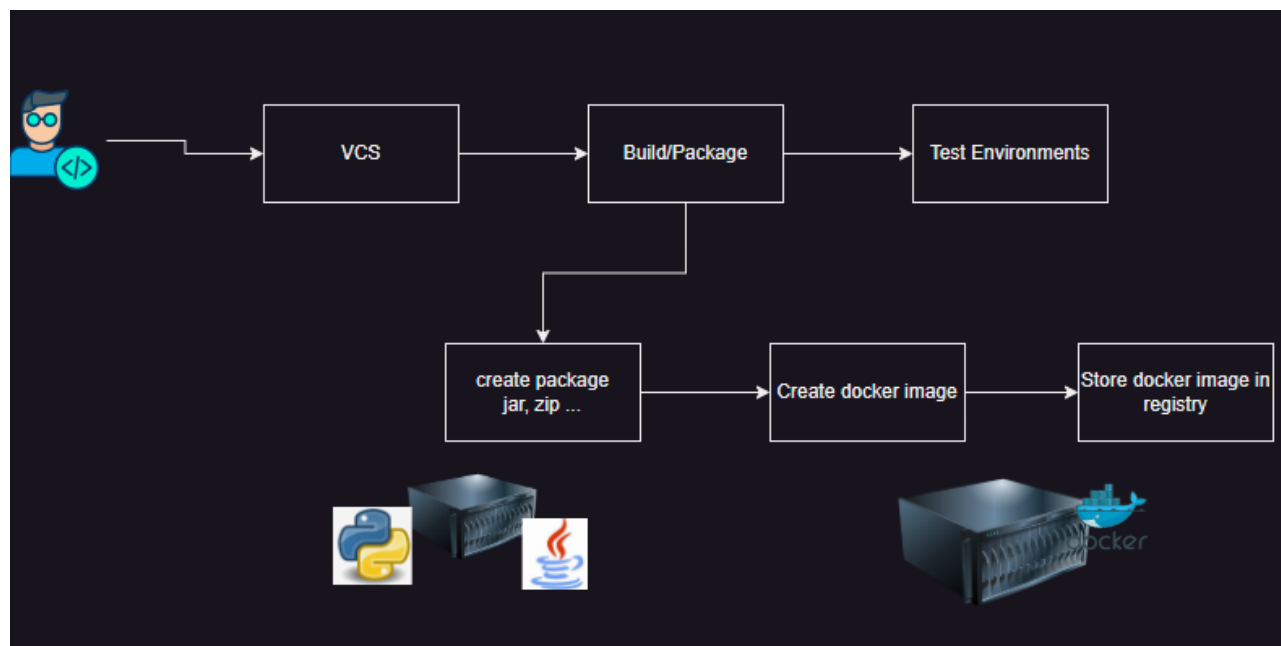
- [Refer Here](#) for docker internals

Architecture In Linux



Using Docker to handle complete build and Package process

- Overview



- Advantages:
 - no need for extra build servers all you need is servers with docker installed.
- Challenges:

- building the package requires extra softwares which are generally not required to run the application
- Docker has provided multi staged build to solve this problem
- [Refer Here](#) for multi stage

Multistage docker build for spring petclinic

- To build spring petclinic
- clone the repo [Refer Here](#)
- To build this project we require
 - jdk 17
 - maven
- steps

```
git clone https://github.com/dummyrepos/spring-petclinic-june24.git
cd spring-petclinic-june24
mvn clean package
```

- [Refer Here](#) for multistage docker file
- now to build the docker image

```
git clone https://github.com/dummyrepos/spring-petclinic-june24.git
cd spring-petclinic-june24
docker image build -t spc:1.0 .
```

Exercise: Write a multistage docker file for nopcommerce

- [Refer Here](#) for nopcommerce code
- Softwares to build:
 - git
 - dotnet 8 sdk
- Softwares to run
 - aspdotnet 8 runtime
- Steps to build

```
git clone https://github.com/nopSolutions/nopCommerce.git
cd nopCommerce
mkdir published
dotnet build -c Release -o published/ src/Presentation/Nop.Web/Nop.Web.csproj
cd published
mkdir bin logs
```

- Published folder has all the necessary stuff to run the application
- Now copy this into runtime stage and start the application