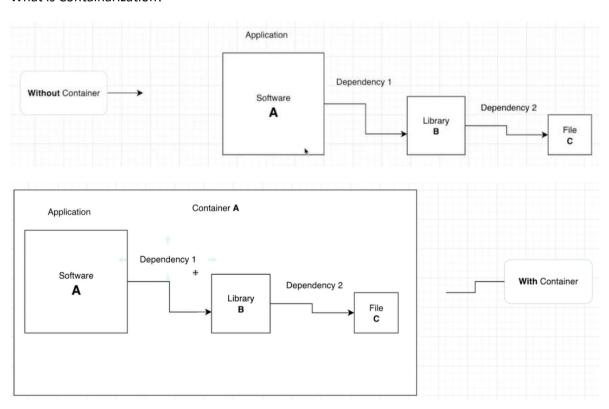
# Docker Tutorial Part-1: How to create Docker Image, How to run it

# Use will cover: 1. What is containerized development 2. What is Docker, and what does it do? 3. Why docker can help development

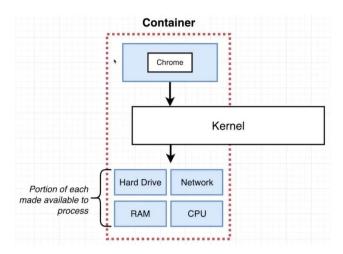
# What is containerized development



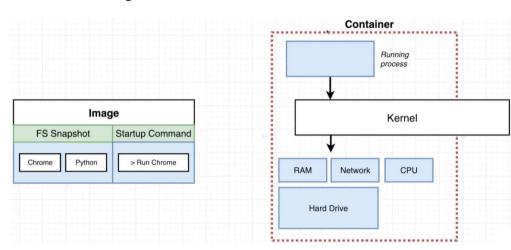
### What is Containarization?

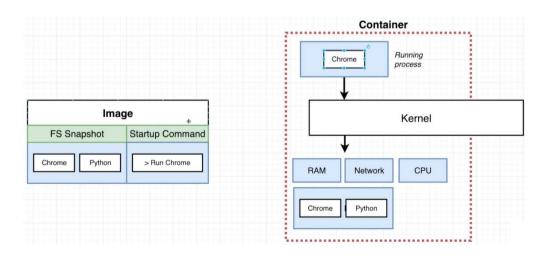


### What is Docker Container?



## What is Docker Image?

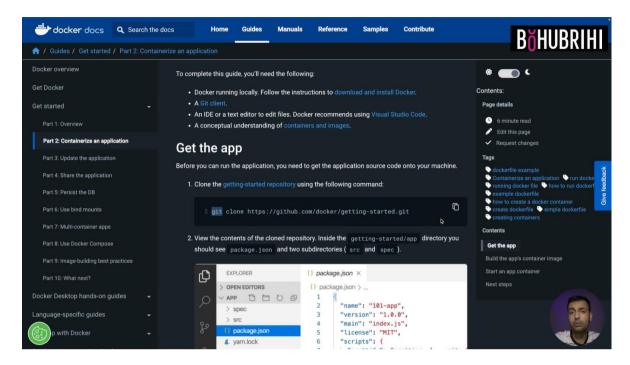




How to clone a project from github?

### Step-1: Clone an application from the repository

a. Go to docker official site <a href="https://docs.docker.com/get-started/workshop/02">https://docs.docker.com/get-started/workshop/02</a> our app/ and copy the git command



b. In VSCODE, open terminal and type below command

```
git clone https://github.com/docker/getting-started-app.git ←-|
```

```
project structure

getting-started-app/

dockerignore
package.json
README.md
spec/
src/
yarn.lock
```

c. In the "getting-started-app" project, right click on "getting-started-app" and create
 a file "Dockerfile" and open it, type below command

- d. In VSCODE terminal, type build image command
  - Check Docker is running or not. Docker must be running

    cd getting-started-app ←-| //login to project directory

    docker build -t getting-started . ←-| //-t is tag, is used for giving a name

e. To see all Docker images created in your pc,

docker images ←-|

REPOSITORY TAG IMAGE ID CREATED SIZE getting-started latest d30faac8547f 4 hours ago 249MB //one images

f. To run docker image in localhost: 3000 port

docker run -d -p 127.0.0.1:3000:3000 getting-started  $\leftarrow$ -| //-d = detach

docker run -d -p 127.0.0.1:3000:3000 getting-started ←-|

here -d = detach, runs the container in the local browser.

-p = port mapping.

127.0.0.1:3000 is local browser ip and port (localhost: portnumber).

:3000 (Image portnumber).

getting-started is Docker image file name

we can make a relation between our localhost 3000 port with container 3000 port as below way

docker run -p 3000:3000 getting-started ←-|

docker run -p 5000:3000 getting-started ←-|

- g. Open browser and type 127.0.0.1:3000 and press enter
- h. To see Running Docker container in command prompt, open command prompt cmd docker ps  $\leftarrow$   $\mid$