**1.Install docker**

>> snap install docker

**2. Python docker**

>>Cat > app.py

Print(“Hello World”);

>>Cat > Dockerfile

FROM python

COPY . .

CMD [“python”,”app.py”]

>>docker build -t dockerpy:1 .

>>docker run dockerpy:1

**3. Node on Docker**

>>cat > app.js

var http = require('http');  
http.createServer(function (req, res) {  
  res.writeHead(200, {'Content-Type': 'text/plain'});  
  res.end('Hello World!');  
}).listen(8080);

>>cat > Dockerfile

FROM node

WORKDIR /usr/apps

COPY . .

EXPOSE 8080

CMD [“node”,”app.js”]

>> docker build -t nodeapp:1 .

>> docker run -it -p 8080:8080 –name nodecon1 nodeapp

**4. php over docker**

We'll start by creating a folder for this project: mkdir lamp-stack && cd lamp-stack

Create another subdirectory, /php which contains the following index.php file:

cat >> Index.php

<!-- ./php/index.php -->

<html>

<head>

<title>Hello World</title>

</head>

<body>

<?php

echo "Hello, World!";

?>

</body>

</html>

Populate docker-compose.yml with the following configuration:

# ./docker-compose.yml

version: '3'

services:

db:

image: mysql:5.7

environment:

MYSQL\_ROOT\_PASSWORD: my\_secret\_pw\_shh

MYSQL\_DATABASE: test\_db

MYSQL\_USER: devuser

MYSQL\_PASSWORD: devpass

ports:

- "9906:3306"

web:

image: php:7.2.2-apache

container\_name: php\_web

depends\_on:

- db

volumes:

- ./php/:/var/www/html/

ports:

- "8100:80"

stdin\_open: true

tty: true

>>docker-compose up -d

Web browser : http://localhost:8100