

32.09May.JenkinsGitSelenium Adv Docker

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Create Services

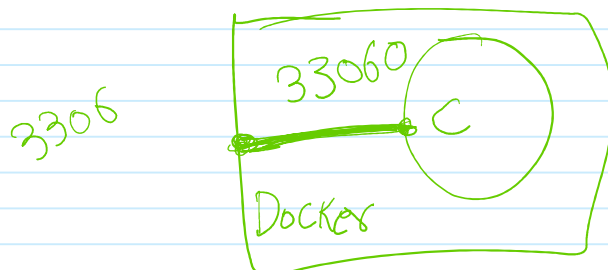
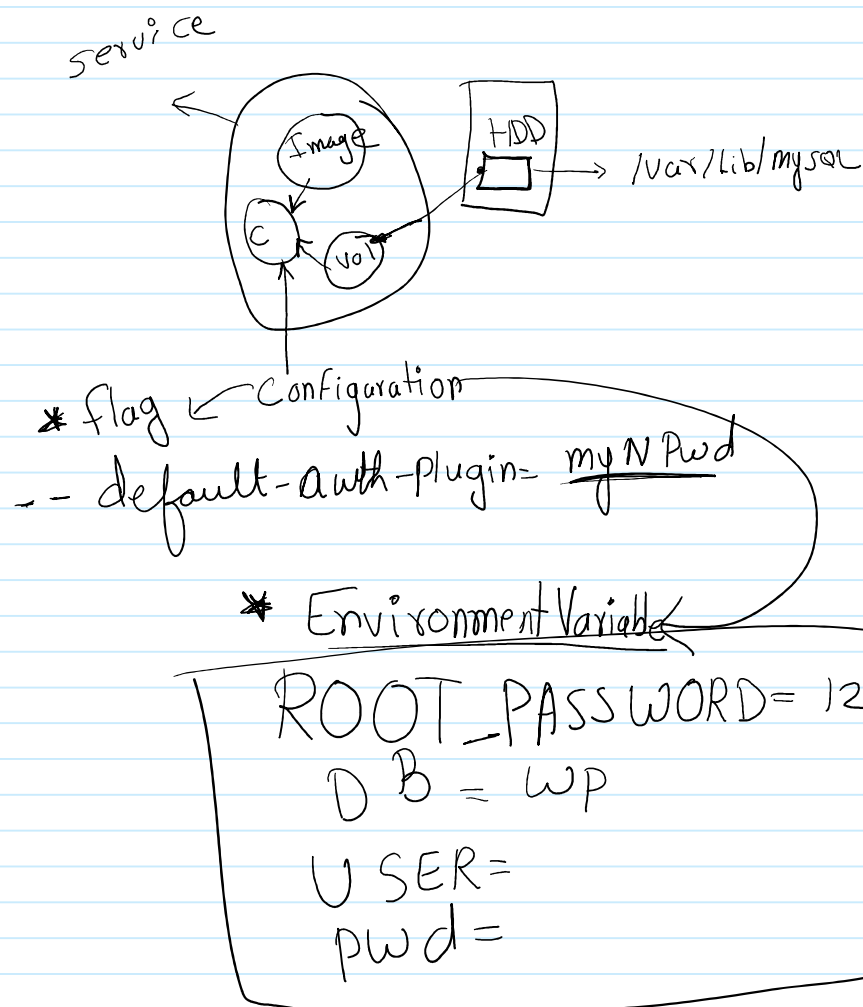
1. MySQL = Database
2. WordPress = CMS(Blogs)

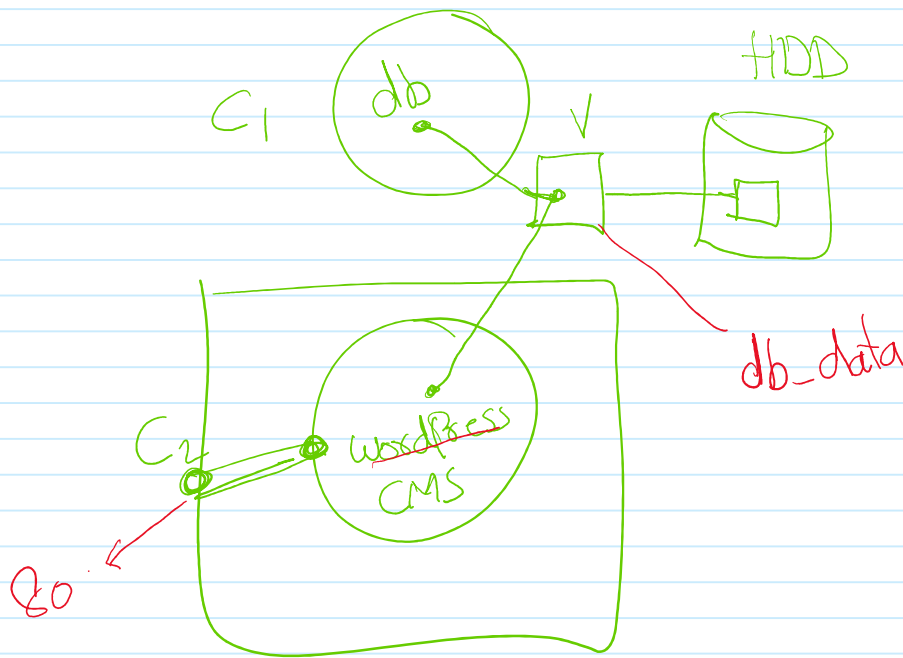
```
$ cat > compose.yaml
```

```
services:
```

```
db:
```

```
image: RemoteImageName
```





- Bridge Network Adapter = 1023/per bridge
- Mounts File System = 1048576/File System Type

BR_PORT_BITS = 1023

\$ docker-compose -f my-services.yaml up --scale servicename=1000 -d

How to Manage Docker:

1. Ad hoc Command
2. Dockerfile
3. Compose

RUN(Image to Container)

\$ docker run bash:latest

\$ docker pull bash:latest

\$ docker images

\$ docker rmi <Image-ID>

\$ docker build [Dockerfile(Instructions) --> CustomImage] ==> RUN (CustomImage --> Container)

Docker Images

1. Remote Image = Container Registry
2. Local Image = Docker Host
3. CustomImage = Local Custom Image(Dockerfile)

Using Ad hoc Command

1. Create Container using bash remote image version is latest
2. Pass command while running container
 - a. Create File \$ echo Welcome > file.txt
 - b. Display the content of a file
3. No Detachable and Once run you may lost data.

```
$ docker run bash:latest -c "echo Welcome > file.txt && cat file.txt"
```

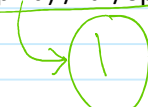
```
$ docker run bash:latest -c "cat file.txt"
```

ERROR

```
$ ls $(pwd)
```

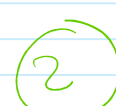
```
$ docker run -v $(pwd):/var/opt/project bash:latest bash -c "echo welcome > /var/opt/project/file.txt"
```

```
$ ls $(pwd)
```




```
$ docker volume ls
```

```
$ docker volume create foo
```



```
$ docker volume inspect foo
```



```
$ docker run -d -v foo:/root --name mycontainer alpine sleep 3600
```

```
$ docker exec -it mycontainer sh
```

```
/# cd /root
```

```
/# touch mujahed.txt
```

```
/# exit
```

```
$ ls /var/lib/docker/volumes/foo/_data
```

```
mujahed.txt
```

```
$ docker volume create --name mysql_volume --opt type=nfs --
```