**Docker part - 2**

* **How to create a docker image:**
* To create a docker image we need to create a docker file.
* Docker file name should be unique (first letter should be capital ‘D’.
* To write a docker file, we should know the set of instructions.
* **Docker file instructions:**
* File name should be capital letter.
* This file is usually present in project root directory.
* Some important commands:
* From: used to specify the base image (from where we are pulling the image)
* Label: to add labels, labels are like meta information of the image. (detail information of the image).
* Run: used to run the commands on docker images.
* Workdir: it makes the directory as current working directory, if the folder is not available then it will automatically create the folder.
* Expose: to open a port on the container. (Maps the container to a port.)
* Cmd: used for starting the application.
* Entry point: like the CMD command.
* Copy: to copy file from local host to docker image and source can only be local file system.
* Add: adding a file to the docker image and source can be local file system or remote URL.
* **Docker home Directory:**
* /var/lib /docker.
* **Docker commands:**
* Docker –-version – to see the version of docker.
* If config –a –configure and display network interfaces on Linux systems.
* Docker –o – it is bridge network.
* Docker info- to see complete information if docker.
* Docker images- to see how many docker images are there.
* Docker image ls- same a docker image command.
* Docker ps – to see number of docker containers.
* Note: display only the current running containers.
* Docker ps –a – it shows all running/ not running docker containers.
* Docker pull <image name>: the command is used to download a docker image from a docker registry like docker hub to your local machine.
* Docker inspect image ID: it will display the pulled image.
* Docker run –itd –name bhavya –p 40:80: image id- used to create docker container.
* Docker ps – to see the number of containers.
* **We take backup we need to create tag first and the wee need to push it.**
* How to create a tag:
* Docker tag<image name>: latest docker hub <username/dev:jenkins>
* **Docker installation**
* Login into AWS account.
* Launch one new ec2 instance with name as Docker\_instance.
* Open git bash and connect the bash and ec2 instance.
* Execute “Sudo su” command.
* Install docker on Linux server “yum install –y docker”
* To see the version of docker “docker --version”
* Linux systems to display network interface configuration “ifconfig -a”
* To start the service of docker “service docker start”
* Too see the information of docker “docker info”
* Move to the docker directory “cd /var/lib/docker”
* Give “ls”
* Move to the ec2-user “cd/home/ec2-user”
* To see the docker images “docker images”
* To see all the containers “docker ps –a"