Docker:

Installation: https://docs.docker.com/engine/installation/linux/ubuntu/

Commands:

1) docker search “image name” // to search all public images on docker
2) docker pull “image name” // to pull images to local
3) docker images // listing all images available on local
4) Docker run -it -p 80:80 “image_name” // you will get login to your image
   // after login, you can install softwares to your image
5) docker run -it -p 80:80 centos:rails2 /bin/bash // to run docker image by //binding port and all running image are called containers
6) docker ps // to list all running containers
7) docker stop “container_id” // to gracefully stop container Note: get container id from docker ps
8) Docker commit “container_id” name:tag // to save container changes into a image
   // if you kill without saving, then u will lost all changes inside of your image
9) Docker kill “container_id” // to forcefully kill container process

Using with Docker file

1) Create a docker file named as Dockerfile with required configuration. Below is an example of Dockerfile
   a) FROM ubuntu14:rails // with FROM we need to specify the image name available on local
   b) WORKDIR /root/docker_test // specify the path used inside the image where we need run commands like bundle etc
   c) run /bin/bash -l -c "bundle" // commands specifield with run are executed while building an image
   d) docker run -p 3000:80 “image_name” //this would run application on port 3000 which is running on port 80 inside container
   e) docker run -d -p 3000:80 “image_name” // run image in background
   f) cmd /bin/bash -l -c "rails s -b 0.0.0.0 -p 80" // commands specified with cmd are executed while running an image
2) docker build -t “image_name” . // this would create an image unsing the commands specified inside the Dockerfile

Push image on docker

To push image we need to signup at docker “https://cloud.docker.com/”

1) docker login // this would prompt for username and password for docker
2) docker tag “image_name” “username/image_name:tag_name” // we need to provide username before image name to push an image on docker so give tag name to local image
3) docker push username/image_name:tag_name //this would publish image on docker publically

4) docker run -p 4000:80 username/image_name:tag_name // this would run image directly if not available on local then pull it from cloud then run the app server directly
5) Docker attach *container-id* //open running container with given ID