

Basic Docker Commands



Docker management Commands and Sub Commands

- To get complete list of docker commands docker
- Docker command format

```
Docker <command> <sub-command> (options)
```

- e.g. docker container run nginx docker volume inspect 123pdew
- Docker help feature

```
Docker <command><sub-command>--help
```

- e.g. docker container --help
- e.g. docker container run --help

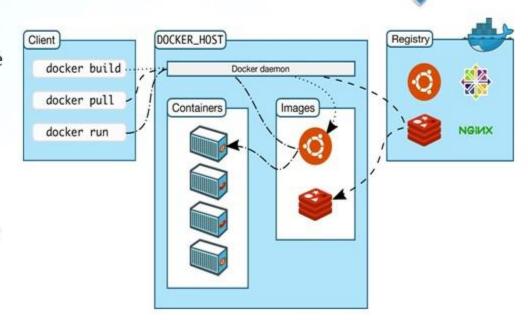


Docker: Provisioning - Docker Hub

Url: https://hub.docker.com/

Docker Hub is a cloud-based registry service which allows youto link to code repositories, build your images and test them, stores manually pushed images, and links to Docker Cloud so that you can deploy images to your hosts.

It provides a centralized resource for container image discovery, distribution and change management, user and team collaboration, and workflow automation throughout the development pipeline.





Docker: Provisioning - Docker Hub Features

- Image Repositories: Find and pull images from community and official libraries. Manage, push to, and pull from private image libraries to which you have access.
- Automated Builds: Automatically create new images when you make changes to a source code repository.
- Webhooks: A feature of Automated Builds, Webhooks let you trigger actions after a successful push to a repository.
- Organizations: Create work groups to manage access to image repositories.
- GitHub and Bitbucket Integration: Add the Hub and your Docker Images to your current workflows.



- Search an image in docker repository
 - docker search nginx
- Start a container
 - docker run nginx
- What did just happen now?
 - Downloaded image 'nginx' from Docker Hub
 - Started a new container from that image



- List Running Containers
 - docker ps
- List All Containers
 - docker ps -a



- Stop a running container
 - docker stop <Container_ID>
- Remove a container
 - docker rm <Container_ID>



- List Images
 - docker images
- Remove an Images
 - docker rmi <lmage_Name>



- Pull an Images
 - docker pull <lmage_Name>
- Pull Ubuntu Image
 - docker pull ubuntu



- Run a docker container from Ubuntu
 - docker run ubuntu
- See running containers
 - docker ps
- See all containers
 - docker ps -a



- Append sleep command
 - docker run ubuntu sleep 5
- Auto login to container while running
 - docker run -it ubuntu bash
- Run some commands within container. Let's check the operating system.
 - cat /etc/*release*



- Run a container
 - docker run nginx
- Run a container in background
 - docker run -d nginx
- See running container
 - docker ps
- Attach a container
 - docker attach < Container_ID>



Exercise

- Run a container from "timer" image
- It prints the current time. Exit from the container
- Run the same container in detach mode
- Attach the container to see the output



- Execute a command in running container
 - docker exec <Container_ID> <Command>
 - docker exec 123jjhf cat /etc/hosts



- Run a container
 - docker run nginx
- Open another terminal
- Try deleting Nginx image
 - docker rmi nginx
 - You will notice it fails and tells that image is used by container
- Delete the container
- Delete the image
- You will notice that image is deleted now



Exercise

- Pull the Centos Image
- Run Bash while running the Centos image
- · Exit from container
- Execute Sleep command for 5 sec
- Delete Centos image
- Remove all the stopped containers

