Build Commands: Docker uses the build command for building images from a Docker file. Some of the most common commands include:

Command	Explanation
docker build	Builds an image from a Dockerfile in the current directory
docker build https://github.com/docker/ rootfs.git#container:docker	Builds an image from a remote GIT repository
docker build -t imagename/tag	Builds and tags an image for easier tracking
docker build https://yourserver/file.tar.gz	Builds an image from a remote tar archive
docker build -t image:1.0 -< <eoffrom "hello="" busyboxrun="" echo="" td="" world"eof<=""><td>Builds an image via a Dockerfile that is passed through STDIN</td></eoffrom>	Builds an image via a Dockerfile that is passed through STDIN

Clean Up Commands: To keep your system clean and save disk space, it's a great idea to clean up unused images, containers, and volumes. Check the commands below for more details:

Command	Explanation
docker image prune	Clears an unused image
docker image prune -a	Clears all images that are not being used by containers
docker system prune	Removes all stopped containers, all networks not used by containers, all dangling images, and all build cache
docker image rm image	Removes an image
docker rm container	Removes a running container

<pre>docker kill \$ (docker ps -q)</pre>	Stops all running containers
docker swarm leave	Leaves a swarm
docker stack rm stackname	Removes a swarm
<pre>docker volume rm \$(docker volume ls -f dangling=true -q)</pre>	Removes all dangling volumes
docker rm \$(docker ps -a -q)	Removes all stopped containers
docker kill \$ (docker ps -q)	Stops all running containers

Container Interaction Commands: Interact with your Docker container with the following common commands:

Command	Explanation
docker start container	Starts a new container
docker stop container	Stops a container
docker pause container	Pauses a container
docker unpause container	Unpauses a container
docker restart container	Restarts a container
docker wait container	Blocks a container
docker export container	Exports container contents to a tar archive
docker attach container	Attaches to a running container

docker wait container	Waits until the container is terminated and shows the exit code
<pre>docker commit -m "commit message" -a "author" container username/image_name: tag</pre>	Saves a running container as an image
docker logs -ft container	Follows container logs
docker exec -ti container script.sh	Runs a command in a container
docker commit container image	Creates a new image from a container
docker create image	Creates a new container from an image

Container Inspection Commands: Sometimes, you need to inspect your containers for quality assurance or troubleshooting purposes. These commands help you get an overview of what different containers are doing:

Command	Explanation
docker ps	Lists all running containers
docker -ps -a	Lists all containers
docker diff container	Inspects changes to directories and files in the container filesystem
docker top container	Shows all running processes in an existing container
docker inspect container	Displays low-level information about a container
docker logs container	Gathers the logs for a container

docker stats container

Shows container resource usage statistics

Manage Images Commands: Some of the most common image management commands include:

Command	Explanation
docker image ls	Lists images
docker image rm mysql	Removes an image
docker tag image tag	Tags an image
docker history image	Displays the image history
docker inspect image	Displays low-level information about an image

Run Commands: Docker uses the run command to create containers from provided images. The default syntax for this command looks like this:

docker run (options) image (command) (arg...) After the default syntax, use one of the following flags:

Explanation
Runs a container in the background and prints the container ID
Sets environment variables
Sets a hostname to a container
Creates a meta data label for a container
Assigns a name to a container

network	Connects a container to a network
rm	Removes container when it stops
read-only	Sets the container filesystem as read-only
workdir , -w	Sets a working directory in a container

Registry Commands: If you need to interact with Docker Hub, use the following commands:

Command	Explanation
docker login	Logs in to a registry
docker logout	Logs out from a registry
docker pull mysql	Pulls an image from a registry
<pre>docker push repo/ rhel-httpd:latest</pre>	Pushes an image to a registry
docker search term	Searches Docker Hub for images with the specified term

Service Commands:Manage all Docker services with these basic commands:

Command	Explanation
docker service ls	Lists all services running in a swarm
docker stack services stackname	Lists all running services
docker service ps servicename	Lists the tasks of a service
docker service update servicename	Updates a service
docker service create image	Creates a new service

<pre>docker service scale servicename=10</pre>	Scales one or more replicated services
docker service logs stackname servicename	Lists all service logs

Network Commands: If you need to interact with the Docker network, use one of the following commands:

Command	Explanation
docker network create networkname	Creates a new network
docker network rm networkname	Removes a specified network
docker network ls	Lists all networks
docker network connect networkname container	Connects a container to a network
docker network disconnect networkname container	Disconnects a container from a network
docker network inspect networkname	Displays detailed information about a network