Docker Build Commands:

docker build -t .: Build a Docker image from a Dockerfile in the current directory and tag it with a name.

docker build --no-cache -t .: Build a Docker image without using the cache.

docker build -f -t .: Build a Docker image using a specified Dockerfile.

Docker Clean Up Commands:

docker system prune: Remove all unused Docker resources, including containers, images, networks, and volumes.

docker container prune: Remove all stopped containers.

docker image prune: Remove unused images.

docker volume prune: Remove unused volumes.

docker network prune: Remove unused networks.

Container Interaction Commands:

docker run : Run a Docker image as a container.

docker start : Start a stopped container.

docker stop : Stop a running container.

docker restart : Restart a running container.

docker exec -it : Execute a command inside a running container interactively.

Container Inspection Commands:

docker ps: List running containers.

docker ps -a: List all containers, including stopped ones.

docker logs : Fetch the logs of a specific container.

docker inspect : Inspect detailed information about a container.

Image Commands:

docker images: List available Docker images.

docker pull : Pull a Docker image from a Docker registry.

docker push : Push a Docker image to a Docker registry.

docker rmi : Remove a Docker image.

Docker Run Commands:

docker run -d : Run a Docker image as a container in detached mode.

docker run -p : : Publish container ports to the host.

docker run -v : : Mount a host directory or volume to a container.

docker run --name : Assign a custom name to the container.

Docker Registry Commands:

docker login: Log in to a Docker registry.

docker logout: Log out from a Docker registry.

docker search : Search for Docker images in a Docker registry.

docker pull /: Pull a Docker image from a specific registry.

Docker Service Commands:

docker service create --name : Create a Docker service from an image.

docker service ls: List running Docker services.

docker service scale =: Scale the replicas of a Docker service.

docker service logs : View logs of a Docker service.

Docker Network Commands:

docker network create : Create a Docker network.

docker network ls: List available Docker networks.

docker network inspect : Inspect detailed information about a Docker network.

docker network connect : Connect a container to a Docker network

Docker Volume Commands:

docker volume create : Create a Docker volume.

docker volume ls: List available Docker volumes.

docker volume inspect : Inspect detailed information about a Docker volume.

docker volume rm : Remove a Docker volume.

Docker Swarm Commands:

docker swarm init: Initialize a Docker swarm on the current node.

docker swarm join: Join a Docker swarm as a worker node.

docker node ls: List the nodes in a Docker swarm.

docker service create: Create a service in the Docker swarm.

docker service scale: Scale the replicas of a service in the Docker swarm.

Docker Filesystem Commands:

docker cp : : Copy files from a container to the host.

docker cp :: Copy files from the host to a container.

Docker Environment Variables:

-e or --env: Set environment variables when running a container.

docker run -e = : Set an environment variable when running a container.

Docker Health Checks:

HEALTHCHECK instruction: Define a command to check the health of a container.

docker container inspect --format='{{json .State.Health}}' : Check the health status of a container.

Docker Compose Commands:

docker-compose up: Create and start containers defined in a Docker Compose file.

docker-compose down: Stop and remove containers defined in a Docker Compose file.

docker-compose ps: List containers defined in a Docker Compose file.

docker-compose logs: View logs of containers defined in a Docker Compose file.

Docker Stats:

docker stats: Display a live stream of resource usage by containers.

docker stats : Display the resource usage of a specific container.