

Docker Version and Information

```
docker --version      # Show Docker version
docker info           # Display system-wide information about Docker
```

Working with Containers

```
docker ps             # List running containers
docker ps -a          # List all containers (running and stopped)
docker run <image>     # Run a container from an image
docker run -d <image>  # Run a container in detached mode (in the
background)
docker run --name <name> <image> # Run a container with a custom name
docker stop <container> # Stop a running container
docker start <container> # Start a stopped container
docker restart <container> # Restart a container
docker rm <container> # Remove a stopped container
docker exec -it <container> /bin/bash # Access a running container's shell
```

Managing Images

```
docker images         # List all Docker images
docker pull <image>    # Pull an image from Docker Hub
docker build -t <name>:<tag> <path> # Build an image from a Dockerfile
docker rmi <image>     # Remove a Docker image
docker tag <image> <new_name>:<tag> # Tag an image with a new name and/or tag
docker push <name>:<tag> # Push an image to a Docker registry
```

Docker Networks

```
docker network ls      # List all Docker networks
docker network create <name> # Create a new Docker network
docker network inspect <network> # Display details about a Docker network
docker network connect <network> <container> # Connect a container to a network
docker network disconnect <network> <container> # Disconnect a container from a network
docker network rm <network> # Remove a Docker network
```

Docker Volumes

```
docker volume ls      # List all Docker volumes
docker volume create <name> # Create a new Docker volume
docker volume inspect <volume> # Display details about a Docker volume
docker run -v <volume>:/path <image> # Attach a volume to a container
docker volume rm <volume> # Remove a Docker volume
```

Viewing Container Logs

```
docker logs <container> # View logs of a container
docker logs -f <container> # Follow logs of a container (real-time output)
```

Inspecting Containers and Images

```
docker inspect <container/image> # Display detailed information about a container or
image
docker stats      # Display resource usage statistics for containers
```

Container Export and Import

```
docker export <container> > <file.tar> # Export a container's filesystem as a tar archive
docker import <file.tar> <image_name> # Import a tar archive as a Docker image
```

Docker Compose (if installed)

```
docker-compose up      # Start all services defined in docker-compose.yml
docker-compose down    # Stop and remove containers, networks, images, and
volumes
docker-compose logs    # View logs of all services defined in docker-
compose.yml
docker-compose ps      # List containers managed by Docker Compose
```

Cleaning Up Docker

```
docker system prune # Remove unused data (containers, images, networks,
and volumes)
docker container prune # Remove all stopped containers
docker image prune    # Remove unused Docker images
docker volume prune   # Remove unused Docker volumes
docker network prune  # Remove unused Docker networks
```