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| **M** | **Item** | **Details** |
| M0 | docker pull <image-name>:<tag> | Pulls the image from the docker hub |
| M1 | docker build -t <image-name>:<tag> . | Builds the image from the Dockerfile with the mentioned name and tag |
| M2.1 | docker image ls | Shows the list of the images present on your system. short-hand 'docker images' |
| M2.2 | docker container ls | Displays the only running containers. short-hand 'docker ps' |
| M2.3 | docker container ls -a | Displays all the containers present on your system. short-hand 'docker ps -a' |

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| M0 | docker inspect <image name>:<tag> | Shows the detailed information about the image in JSON format. |
| M1 | docker history <image name>:<tag> | Used to inspect the layers of the image. |
| M2.1 | docker tag <source-image>:<tag> <username/new-image-name>:<tag> | Create a tag of the new image that refers to source image. |
| M2.2 | docker push user/<image-name>:<tag> | Push an image to a registry |
| M2.3 | docker image rm <image name>:<tag> | Remove the image. short-hand 'docker rmi <image name>:<tag>' |

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| M0 | docker run --name <container\_name> -p <host\_port : container\_port> -d <image\_name> | Create the container with the specified name and assign the specified port from the image. |
| M1 | docker run --name <container-name> -it -p <host\_port : container\_port> <image-name>:<tag> sh | To run a container from an image in an interactive mode. Press Ctrl + pq it will detach terminal and leave container running in background. |
| M2.1 | docker exec -it <container\_name> sh | To go in the running container shell. Write exit to detach the terminal |
| M2.2 | docker stop container\_name | It will stop the running container. |
| M2.3 | docker start container\_name | Start the stopped container |

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| M0 | docker rm container\_name | Remove the container. |
| M1 | docker logs container\_name | fetch the logs of the container |
| M2.1 | docker inspect container\_name | Shows the detailed information about the container in JSON format. |
| M2.2 | docker volume create my-vol | Create your Volume for Persistent Data |
| M2.3 | docker volumes ls | List down the volumes |

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| M0 | docker volume inspect my-vol | inspect the volumes |
| M1 | docker volumes rm my-vol | remove volume |
| M2.1 | docker run -d --name mycont -v my-vol:/usr/share/nginx/html nginx:latest | start container with -v flag (volume mount) |
| M2.2 | docker run -d --name devtest --mount source=my-vol,target=/usr/share/nginx/html nginx:latest | start container with --mount flag |
| M2.3 | docker run -d -it --name devtest -v "$(pwd)"/myfolder:/app nginx:latest | start container with bind mounts and -v flag |

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| M2.2 | docker run -d -it --name devtest --mount type=bind,source="$(pwd)"/myfolder,target=/app nginx:latest | start container with bind mounts and -mount flag |
| M2.3 |  |  |