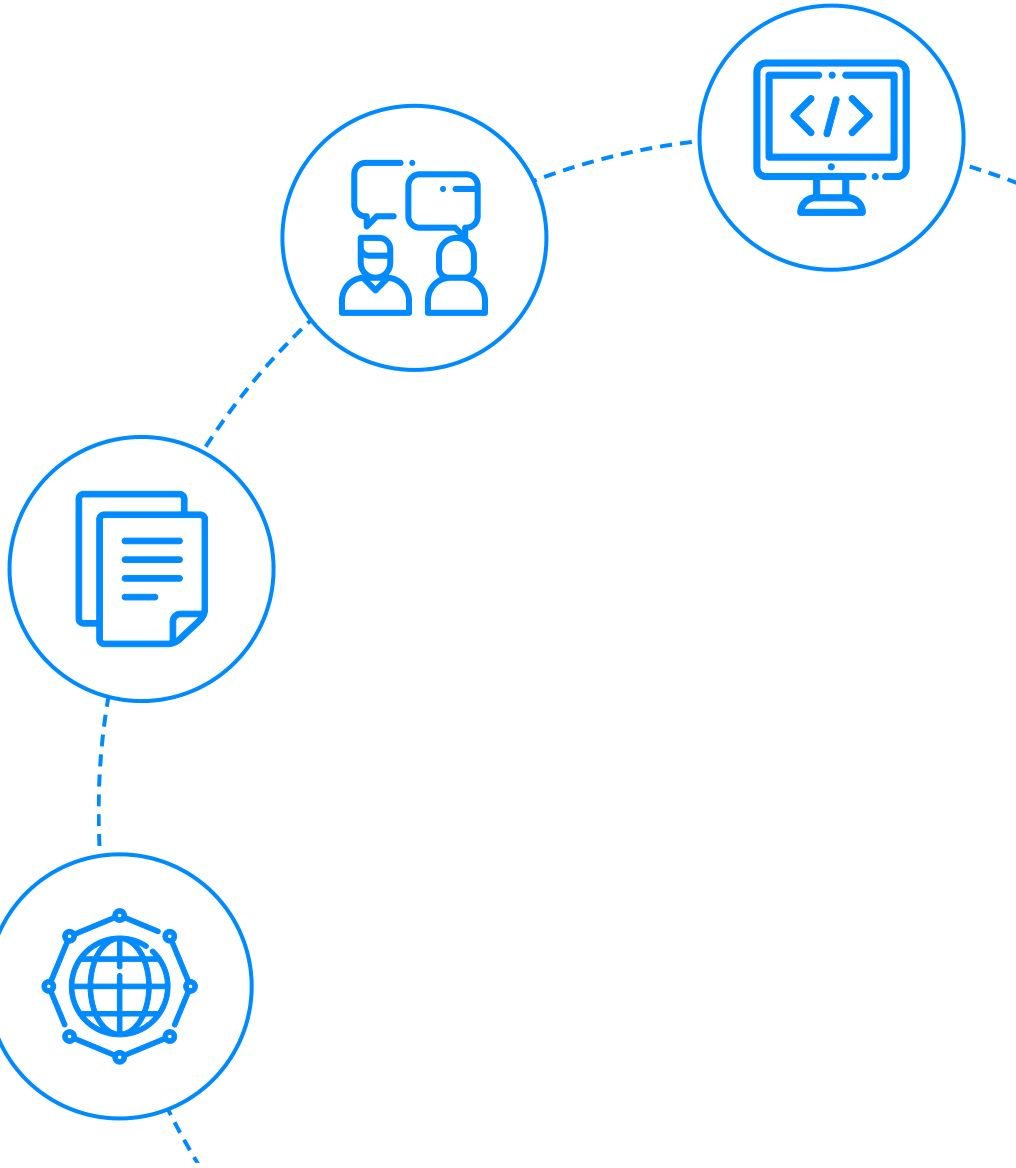
InterviewBit

Docker Cheat Sheet



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Docker Tutorial: Freshers and Experienced

Let's get Started

Docker is an excellent platform for designing, deploying, and executing programs that rely on containers. Docker allows you to construct a container that contains your program, well any packages or libraries that it relies on, as well as any configuration information. When you managed to make a webpage, you used to have to buy a server, install Linux, build up a LAMP architecture, and then run the program. If your program became famous, you used effective load balancing by adding an extra server to guarantee that it didn't crash due to excessive traffic.

The best thing about open source is whether you get to choose the tech you want to employ to finish a job. Docker engine is suitable for single engineers that want a lightweight, pure environment to run but do not require extensive management.

Docker Community Edition (docker-ce) is a wonderful method to begin with containers if Docker is installed on your system and everyone around you is comfortable with the Docker ecosystem. Because the fight to ensure open standards prevails is continuous, sticking with projects that love and appreciate open source should be a long-term plan for your container solution. Private extras may appear interesting at first, but once you lock your tools to a solution that does not allow for the transfer, you lack your freedom of choice. Containers may be freed if they're used correctly.

In this cheat sheet, we will highlight all the important **docker commands** that caters to freshers and experienced professionals, so let's move forward.

Docker Tutorial: Freshers and Experienced

1. Installation of Docker

Command	Meaning	Syntax
For Windows	This command helps you to install Docker on windows.	https://download.docker.com/win/stable/I
For Linux	This command helps you to install Docker on Linux.	curl -sSL https://get.docker.com/ | sh
For mac	This command helps you to install Docker on mac os.	https://download.docker.com/mac/stable/

2. Docker Registry and Repository

Command	Meaning	Syntax
Login to a Registry	This command helps you log in to your Registry.	`docker login` `docker login localhost:8080`
Logout from a registry:	This command helps you log out from your Registry.	`docker logout` `docker logout localhost:8080`
Searching an image	By using this docker command you can search any image from your docker.	`search nginx` `docker search --filter stars=3 --no-trunc r`
Pulling an Image	This command can be used to download a specific image or set of images.	`docker image pull nginx` `docker image pull eon01/nginx localhost:500`

3. Running Containers

Command	Meaning	Syntax
Command to create a container	This command is used to create a container without running	`docker container create -t -i eon01/infinit`
Command to run a container	This command is used to run a container	`docker container run -it --name XYZ -d eon0`
Command to rename a container	Use this command to rename a container	`docker container rename XYZ infinity`
Command for removing a container	This command is used to remove container in the topic	`docker container rm infinite`
Update a container	This command is used to update container in the topic	`docker container update --cpu-shares 512 -m`

4. Commands for Starting or Stopping the Container

Command	Meaning	Syntax
Command for starting a container	This command is used for starting a container	`docker container start nginx`
Command for stopping a container	This command is used for stopping a container	`docker container stop nginx`
Command for restarting the container	This command is used for restarting a container	`docker container restart nginx`
Command for pausing the container	This command is used for pausing a container	`docker container pause nginx`
Command for unpausing the container	This command is used for unpausing a container in the docker	`docker container unpause nginx`

5. Commands for Obtaining Container Information

Command	Meaning	Syntax

Fetching information From Running Containers	We can fetch information from running container by using this command	`docker ps`
		Or
		`docker container ls`

Command for fetching about every container	This command for fetching about every container	`docker container ls -a`
		Or
		`docker ps -a`

Command for container log	We can use this command to see the container log	`docker logs infinite`
Command for 'tail -f' Containers' Logs	With this command Container isn't running in the foreground, and if there isn't anything running in the foreground, Docker closes automatically.	`docker container logs infinite -f`

6. Commands for Managing Images

Command	Meaning	Syntax
Commands for listing images	This command is used to listing images	`docker image ls`
Command for Building images From the current directory's Dockerfile	This command is used for building from the current directory's dockerfile	`docker build`
Command for Building images From a GIT remote repository	This command is used Building images command Using a remote GIT repository	`docker build github.com/creack/docker-fir`
Commands for tagging and building	This command for tagging and building.	`docker build -t eon/infinite`

7. Commands for Networking

Command	Meaning	Syntax
Command for overlay network	This is used to establish a distributed network between many Docker daemon hosts.	`docker network create -d overlay My`
Command for Bridge network	To establish container test1 to bridge demo-bridge, type docker network connect demo-bridge test1.	`docker network create -d bridge MyB`
Command for removing a network	This command s used to remove an overlay network	`docker network rm MyOverlayNetwork`
Command for network listing	This command is used to listing the overlay networks	`docker network ls`

8. Commands for Cleaning Docker

Command	Meaning	Syntax
Command for Removing a Running Container	We can remove a running container by using this command	`docker container rm nginx`
Command for Removing a Container and its Volume	We can use this command for removing the container and the things inside it	`docker container rm -v nginx`
Command for Removing all Exited Containers	We can use this command for removing all the exited containers	`docker container rm $(docker container`
Command for Removing All Stopped Containers	We can remove all the stopped containers by using this command	`docker container rm `docker container`

Conclusion

You should have a solid knowledge of what Docker is and how it operates by this point. Docker's finest feature is cooperation. Docker images may be uploaded to a repo and then downloaded to any other server to execute containers. Furthermore, the Docker hub has hundreds of images developed by users, which you may download down to your servers depending on your specific application. It is also often used throughout container orchestration technologies such as Kubernetes.

Docker is one of the greatest production technologies available today, and its demand is expanding rapidly. It is considered ideal for larger businesses, and because it is open-source, it is a versatile platform that can be used to construct a wide range of applications.

References and Resources

- Official Documentation: https://docs.docker.com/engine/reference/commandline/docker/
- Docker Interview Questions: https://www.interviewbit.com/docker-interview-questions/
- Docker Commands with Examples: https://www.interviewbit.com/blog/docker-commands/

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