



DEVOPS EASY LEARNING

# Docker\_Command- OVERVIEW

# DOCKER COMMAND

**1.Scenario:** You have a Node.js application that you want to containerize using Docker. Describe the steps and Docker commands you would use to create a Docker image and run a container from it.

- **Question:** Walk me through the process of Dockerizing your Node.js application, including the Docker commands you would use at each step.

**2.Scenario:** You have multiple containers running on your Docker host, and you need to list all the running containers, including their IDs and names.

- **Question:** How would you use a Docker command to list all the running containers on your Docker host, displaying their IDs and names?

**3.Scenario:** You've created a Docker image for a Python web application. Now, you want to push it to a Docker registry (e.g., Docker Hub). Explain the steps involved and the Docker commands required to accomplish this.

- **Question:** Can you outline the steps you would take to push your Python web application Docker image to a Docker registry? Please include the relevant Docker commands.

**4.Scenario:** You have a running Docker container for a PostgreSQL database, and you want to stop and remove it. Describe the Docker commands you would use to do this.

- **Question:** How would you stop and remove a running Docker container that's hosting a PostgreSQL database? Provide the specific Docker commands you would use.



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5. **Scenario:** You're working on a Dockerized microservices architecture where multiple containers communicate with each other. One of your containers is experiencing issues, and you need to view its logs to diagnose the problem.
- **Question:** Explain how you would use Docker commands to view the logs of a specific container in a microservices architecture.
6. **Scenario:** You want to update the environment variables of a running Docker container without stopping it. Describe the Docker commands you would use to achieve this.
- **Question:** How can you update the environment variables of a running Docker container without stopping it? Provide the relevant Docker commands and steps.
7. **Scenario:** You have a Docker image for a Java application that requires specific runtime configurations. Explain how you would pass runtime environment variables to the container when running it.
- **Question:** When running a Docker container for a Java application, how can you pass runtime environment variables to configure the application? Please describe the necessary Docker commands.
8. **Scenario:** You want to create a custom Docker image for a web server with additional configurations. Walk me through the process of creating a Dockerfile for this custom image and building it using Docker commands.
- **Question:** Describe the steps involved in creating a Dockerfile to build a custom Docker image for a web server with additional configurations. Include the Docker commands used for building the image.



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**9. Scenario:** You have a Docker container running a Python web application, and you want to inspect the detailed configuration and runtime information of the container, including its IP address, environment variables, and resource usage. Describe the Docker command(s) you would use to gather this information.

- **Question:** How can you gather detailed configuration and runtime information about a running Docker container, including its IP address, environment variables, and resource usage? Please provide the relevant Docker command(s).

**10.Scenario:** You have a Docker container running a Node.js application, and you want to copy a file from your local machine into the container. Explain the Docker command(s) you would use to copy the file into the container's filesystem.

- **Question:** What Docker command(s) would you use to copy a file from your local machine into a running Docker container that hosts your Node.js application? Please describe the necessary steps.



# THUMBS UP TO TOM AND GERRY!!!

## TOM *and* JERRY

