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6 min read · Jan 12

All Docker Commands in One Place…

- **What is Docker?**
  Docker is a containerization platform that allows you to package and distribute applications in a lightweight and portable manner. One of the main benefits of Docker is that it allows you to run applications in a consistent environment, regardless of the underlying operating system or infrastructure.
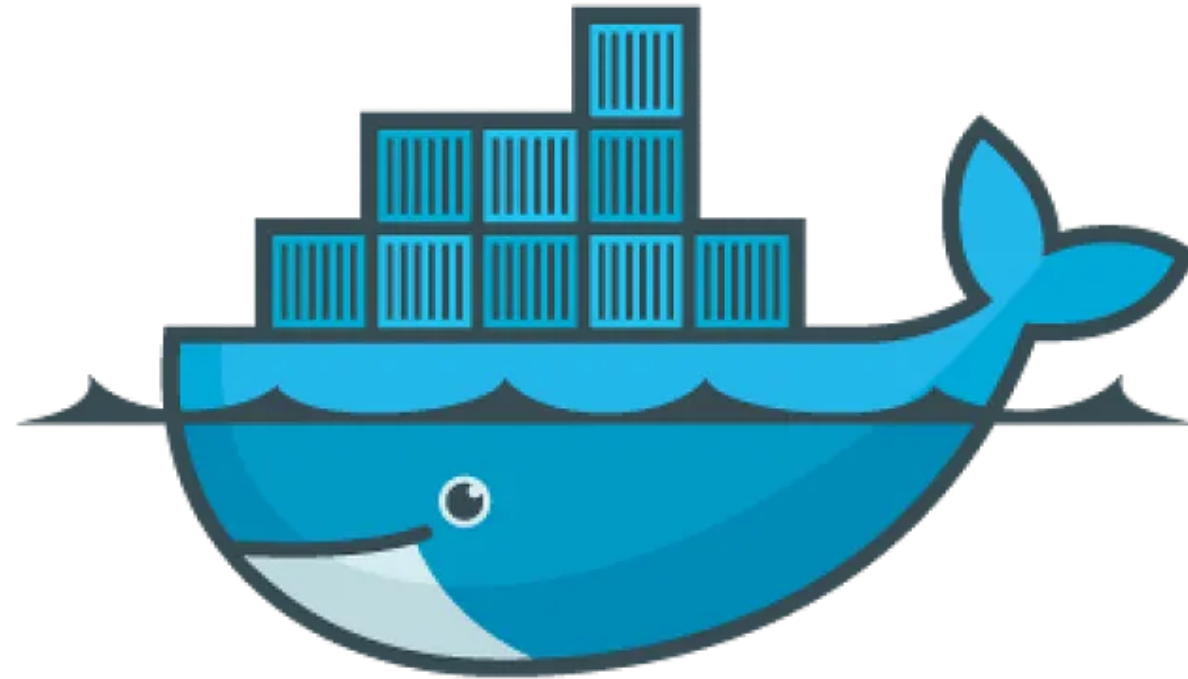
Docker

- To use Docker, you will need to install the Docker engine on your machine. You can then use the docker command line tool to manage

Docker containers. Here is a list of some common Docker commands that you may find useful:

Building Docker images

Build a Docker image from a Dockerfile.

Create a new Docker image from the changes made to a container.

```
docker build
docker commit
```

Running Docker containers

Run a new Docker container based on an image.

Start an existing stopped container.

Stop a running container.

Forcefully stop a running container.

Remove a stopped container.

```
docker run
docker start
docker stop
```

```
docker kill
docker rm
```

Inspecting Docker containers

List running containers.

View detailed information about a container.

```
docker ps
docker inspect
```

Building Docker images

Build a Docker image from a Dockerfile.

Create a new Docker image from the changes made to a container.

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Inspecting Docker containers

List running containers.

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```
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docker inspect
```

Managing Docker images

List available Docker images.

Download a Docker image from a registry.

Upload a Docker image to a registry.

Remove a Docker image.

```
docker images
docker pull
docker push
docker rmi
```

Managing Docker volumes

Create a new Docker volume.

Remove a Docker volume.

List available Docker volumes.

```
docker volume create
docker volume rm
docker volume ls
```

Managing Docker networks

Create a new Docker network.

Remove a Docker network.

List available Docker networks.

```
docker network create
docker network rm
docker neywork ls
```

Running commands in a Docker container

Run a command in a running Docker container.

Copying files to and from a Docker container

Copy files to and from a Docker container.

```
docker exec
docker cp
```

Managing Docker services

Create a new Docker service.

Scale a Docker service.

Remove a Docker service.

List available Docker services.

```
docker service create
docker service scale
docker service rm
docker service ls
```

Managing Docker secrets

Create a new Docker secret.

Remove a Docker secret.

List available Docker secrets.

```
docker secret create
docker secret rm
docker secret ls
```

Managing Docker configs

Create a new Docker config.

Remove a Docker config.

List available Docker configs.

```
docker config create
docker config rm
docker config ls
```

Managing Docker nodes

List available Docker nodes.

View detailed information about a Docker node.

```
docket node ls
docker node inspect
```

Managing Docker tasks

List available Docker tasks.

View detailed information about a Docker task.

```
docker task ls
docker task inspect
```

Managing Docker plugins

Install a Docker plugin.

Enable a Docker plugin.

Disable a Docker plugin.

Remove a Docker plugin.

List available Docker plugins.

```
docker plugin install
docker plugin enable
docker plugin disable
docker plugin rm
docker plugin ls
```

Managing Docker swarm

Initialize a Docker swarm.

Join a Docker swarm as a worker or manager.

Leave a Docker swarm.

```
docker swarm init
docker swarm join
docker swarm leave
```

Logging

View the logs of a Docker container.

```
docker logs
```

Debugging

Show Docker disk usage.

Show Docker events.

Show Docker system information.

Remove unused data from Docker.

```
docker system df
docker system events
docker system info
docker system prune
```

Other Docker commands.

Log in to a Docker registry.

Log out of a Docker registry.

Show the Docker version information.

```
docker login
docker logout
docker version
```

Searching for Docker images

Search for Docker images in a registry.

```
docker search
```

Importing and exporting Docker images

Save a Docker image to a tar archive.

Load a Docker image from a tar archive.

```
docker save
docker load
```

Tagging Docker images

Tag a Docker image.

```
docker tag
```

Managing Docker stacks

Deploy a Docker stack.

List available Docker stacks.

List the tasks of a Docker stack.

Remove a Docker stack.

```
docker stack deploy
docker stack ls
```

```
docker stack ps
docker stack rm
```

Managing Docker system

Show Docker disk usage.

Show Docker events.

Show Docker system information.

Remove unused data from Docker.

```
docker system df
docker system events
docker system info
docker system prune
```

Debugging Docker

Display real-time performance statistics for a running container.

```
docker container stats
```

Other

Update the settings of a Docker plugin.

Set the current Docker context.

List available Docker contexts.

```
docker plugin set
docker context use
docker context ls
```

Managing Docker context

Create a new Docker context.

Remove a Docker context.

Managing Docker cluster

List available Docker clusters.

```
docker context create
docker context rm
```

```
docker cluster ls
```

Debugging Docker

Show Docker disk usage.

Show Docker events.

Show Docker system information.

Remove unused data from Docker.

```
docker system df
docker system events
docker system info
docker system prune
```

Other

Display the running processes of a container.

Update the configuration of a container.

```
docker top
docker update
```

Managing Docker secrets

Create a new Docker secret.

View detailed information about a Docker secret.

List available Docker secrets.

```
docker secret create
docker secret inspect
docker secret ls
```

Managing Docker configs

Create a new Docker config.

View detailed information about a Docker config.

List available Docker configs.

Managing Docker nodes

Promote a worker node to a manager in a Docker swarm.

Demote a manager node to a worker in a Docker swarm.

```
docker config create
docker config inspect
docker config ls
docker node promote
docker node demote
```

Managing Docker stacks

Deploy a Docker stack.

List available Docker stacks.

List the tasks of a Docker stack.

Remove a Docker stack.

```
docker stack deploy
docker stack ls
docker stack ps
docker stack rm
```

Managing Docker secrets

Create a new Docker secret.

View detailed information about a Docker secret.

Remove a Docker secret.

```
docker secret create
docker secret inspect
docker secret rm
```

Managing Docker configs

Create a new Docker config.

View detailed information about a Docker config.

Remove a Docker config.

Managing Docker nodes

List available Docker nodes.

View detailed information about a Docker node.

```
docker config create
docker config inspect
docker config rm
docker node ls
docker node inspect
```

Managing Docker tasks

List available Docker tasks.

View detailed information about a Docker task.

```
docker task ls
docker task inspect
```

Managing Docker plugins

Install a Docker plugin.

Enable a Docker plugin.

Disable a Docker plugin.

Remove a Docker plugin.

List available Docker plugins.

```
docker plugin install
docker plugin enable
docker plugin disable
docker plugin rm
docker plugin ls
```

Managing Docker images

```
docker image history
```

Managing Docker containers

Pause a running container.

Unpause a paused container.

List the port mappings or a specific mapping for a container.

```
docker container pause
docker container unpause
docker container port
```

Managing Docker networks

Connect a container to a network.

Create a new Docker network.

Disconnect a container from a network.

View detailed information about a Docker network.

List available Docker networks.

Remove a Docker network.

```
docker network connect
docker network create
docker network disconnect
docker network inspect
docker network ls
docker network rm
```

Debugging Docker

Show Docker disk usage.

Show Docker events.

Show Docker system information.

Remove unused data from Docker.

```
docker system df
docker system events
docker system info
docker system prune
```

I'm glad to have been able to help you!

Docker is a powerful tool that allows you to easily package and deploy applications in a consistent and portable manner. By using the various

Docker commands, you can build and run Docker images, manage Docker containers, networks, and volumes, and perform a variety of other tasks.

I hope you have a better understanding of the various Docker commands and how they can be used.

Docker   Containerization   Orchestration   All Docker Command   Command

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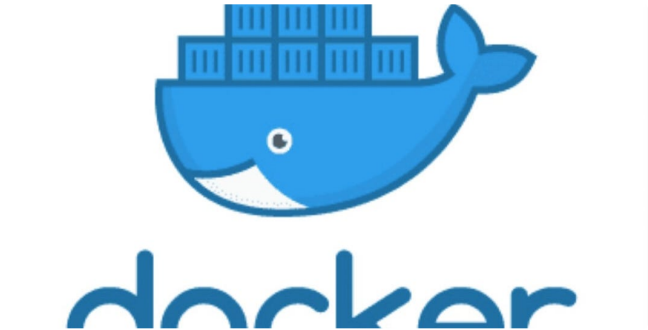
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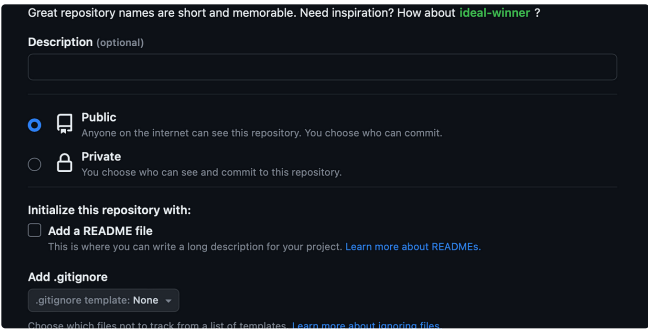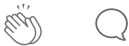
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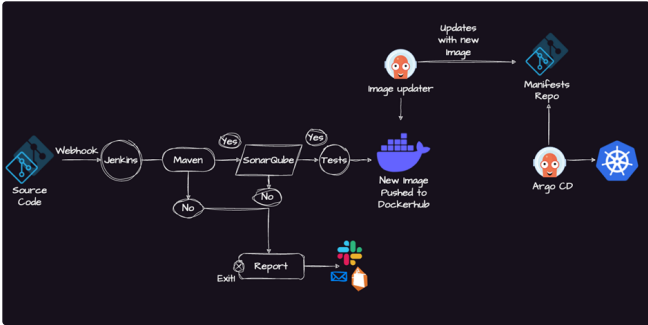
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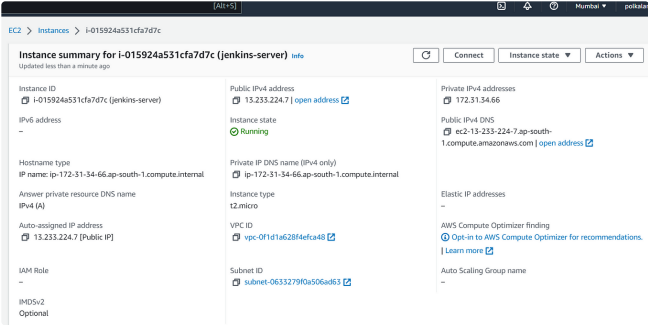## CI/CD Pipeline: Jenkins Pipeline for Java Application with Maven,...

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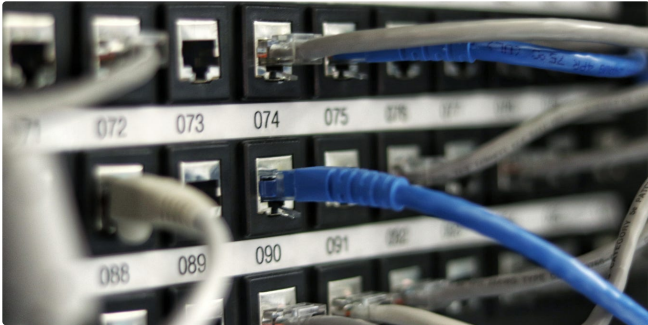**Coding & Development**
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