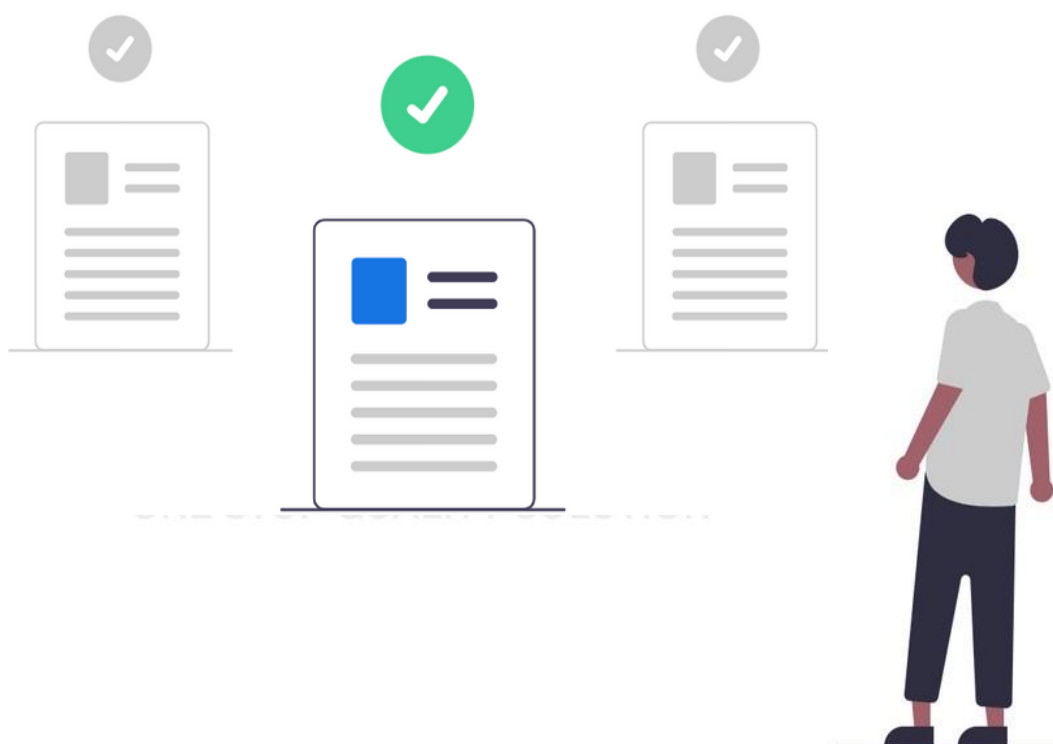# DOCKER COMMANDS

- **docker --version**: Check Docker version.
- **docker info**: Display system-wide information.
- **docker --help**: Get help and list commands.
- **docker run IMAGE**: Run a container from an image.
- **docker pull IMAGE**: Download an image from a registry.
- **docker images**: List all available images.
- **docker ps**: List running containers.
- **docker ps -a**: List all containers (including stopped ones).
- **docker stop CONTAINER**: Stop a running container.
- **docker start CONTAINER**: Start a stopped container.
- **docker restart CONTAINER**: Restart a container.
- **docker pause CONTAINER**: Pause a running container.
- **docker unpause CONTAINER**: Unpause a paused container.
- **docker rm CONTAINER**: Remove a stopped container.
- **docker rmi IMAGE**: Remove an image.
- **docker search TERM**: Search for images on Docker Hub.
- **docker logs CONTAINER**: View container logs.
- **docker exec -it CONTAINER COMMAND**: Run a command in a running container.
- **docker build -t IMAGE:TAG PATH**: Build a Docker image from a
- Dockerfile.
- **docker push IMAGE:TAG**: Push an image to a registry.
- **docker pull IMAGE:TAG**: Pull an image from a registry.
- **docker commit CONTAINER NEW_IMAGE**: Create a new image from a container.
- **docker network ls**: List Docker networks.
- **docker volume ls**: List Docker volumes.
- **docker version**: Show Docker version information.
- **docker login**: Log in to a Docker registry.
- **docker logout**: Log out from a Docker registry.

- **docker run -d IMAGE**: Run a container in detached mode.

- **docker run -p HOST_PORT:CONTAINER_PORT IMAGE**: Map ports.

- **docker run -v HOST_DIR:CONTAINER_DIR IMAGE**: Mount volumes.

- **docker stats**: Show container resource usage statistics.

- **docker top CONTAINER**: Display running processes in a container.

- **docker inspect CONTAINER/IMAGE**: View detailed information.

- **docker events**: Monitor Docker events.

- **docker rename OLD_NAME NEW_NAME**: Rename a container.

- **docker cp CONTAINER:SRC_PATH DEST_PATH**: Copy files between a container and the local filesystem.

- **docker-compose up**: Start services defined in a docker-compose.yml
- file.

- **docker-compose down**: Stop and remove containers defined in a
- docker-compose.yml file.

- **docker-compose ps**: List containers managed by Docker Compose.

- **docker-compose logs**: View logs for services managed by Docker Compose.

- **docker system df**: Show disk usage.

- **docker system prune**: Remove all stopped containers, dangling images, and unused networks and volumes.

- **docker history IMAGE**: View image history.

- **docker inspect --format="{{.NetworkSettings.IPAddress}}" CONTAINER**: Get a container's IP address.

- **docker exec -u USER CONTAINER COMMAND**: Run a command as a specific user in a container.

- **docker run -e KEY=VALUE IMAGE**: Set environment variables.

- **docker run --rm IMAGE**: Automatically remove the container when it exits.

- **docker push REGISTRY/IMAGE:TAG**: Push an image to a custom registry.