



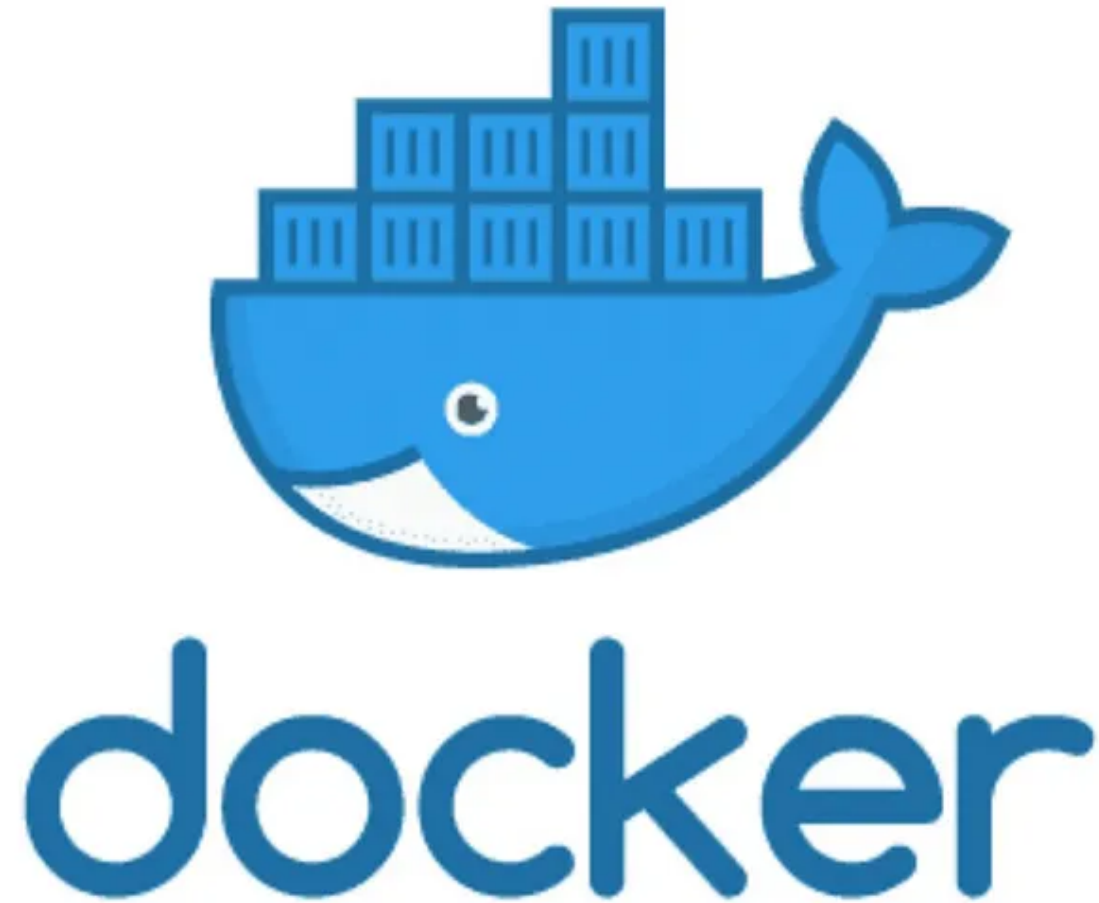
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# Docker—Full Commands...

Docker is basically a software program which enables OS-level virtualization or abstraction.



Extensive list of Docker commands with their uses:

- ◆ `docker run`: Create and start a new container from a Docker image.
- ◆ `docker build`: Build a Docker image from a Dockerfile.
- ◆ `docker pull`: Pull a Docker image from a container registry.
- ◆ `docker push`: Push a Docker image to a container registry.

- ◆ `docker images`: List all Docker images on your local machine.
- ◆ `docker ps`: List running containers.
- ◆ `docker exec`: Execute a command within a running container.
- ◆ `docker stop`: Stop a running container.
- ◆ `docker rm`: Remove one or more containers.
- ◆ `docker rmi`: Remove one or more Docker images.
- ◆ `docker network create`: Create a new Docker network.
- ◆ `docker network ls`: List Docker networks.
- ◆ `docker network inspect`: Display detailed information about a Docker network.
- ◆ `docker network connect`: Connect a container to a Docker network.
- ◆ `docker network disconnect`: Disconnect a container from a Docker network.
- ◆ `docker volume create`: Create a Docker volume.
- ◆ `docker volume ls`: List Docker volumes.
- ◆ `docker volume inspect`: Display detailed information about a Docker volume.
- ◆ `docker volume rm`: Remove a Docker volume.
- ◆ `docker-compose up`: Start and run a multi-container Docker application defined in a Docker Compose file.
- ◆ `docker-compose down`: Stop and remove containers, networks, and volumes created by “`docker-compose up`”.
- ◆ `docker-compose build`: Build Docker images for services defined in a

Docker Compose file.

- ◆ docker-compose logs: View the logs of services running with “docker-compose”.
- ◆ docker-compose ps: List containers created by “docker-compose”.
- ◆ docker login: Log in to a container registry.
- ◆ docker logout: Log out from a container registry.
- ◆ docker inspect: Display detailed information about a Docker object (container, image, volume, etc...)
- ◆ docker cp: Copy files/folders between a container and the host machine.
- ◆ docker attach: Attach to a running container’s STDIN, STDOUT, and STDERR.
- ◆ docker rename: Rename a Docker container.
- ◆ docker restart: Restart a Docker container.
- ◆ docker pause: Pause a running container.
- ◆ docker unpause: Unpause a paused container.
- ◆ docker top: Display the running processes of a container.
- ◆ docker stats: Display real-time usage statistics of containers.
- ◆ docker events: Stream real-time events from the Docker server.
- ◆ docker port: List port mappings of a container.
- ◆ docker save: Save a Docker image to a tar archive.
- ◆ docker load: Load a Docker image from a tar archive.
- ◆ docker commit: Create a new image from a container’s changes.

- ◆ `docker export`: Export the contents of a container's filesystem as a tar archive.
- ◆ `docker system prune`: Remove unused Docker objects (containers, images, networks, volumes, etc...)
- ◆ `docker run --rm`: Run a container and automatically remove it when it exits.
- ◆ `docker run -it`: Run a container in interactive mode with a pseudo-TTY.
- ◆ `docker run -p`: Map a container's port to the host machine.
- ◆ `docker run -v`: Mount a volume from the host machine into a container.
- ◆ `docker run -e`: Set environment variables for a container.
- ◆ `docker run --name`: Assign a custom name to a container.
- ◆ `docker run --network`: Connect a container to a specified Docker network.
- ◆ `docker run --link`: Link a container to another container.
- ◆ `docker network prune`: Remove unused Docker networks.
- ◆ `docker volume prune`: Remove unused Docker volumes.
- ◆ `docker image prune`: Remove unused Docker images.
- ◆ `docker container prune`: Remove stopped containers.
- ◆ `docker exec -it`: Execute a command within a running container in interactive mode.
- ◆ `docker logs`: Fetch the logs of a container.
- ◆ `docker inspect --format`: Retrieve specific information about a Docker object using a Go template.
- ◆ `docker cp`: Copy files/folders between a container and the host machine.

- ◆ `docker events`: Stream real-time events from the Docker server.
- ◆ `docker diff` : Show changes to files and directories within a container's filesystem.
- ◆ `docker top`: Display the running processes of a container.
- ◆ `docker stats`: Display real-time CPU, memory, and network usage of containers.
- ◆ `docker attach`: Attach to a running container's STDIN, STDOUT, and STDERR.
- ◆ `docker import`: Import the contents of a tarball as a new filesystem image.
- ◆ `docker export`: Export the contents of a container's filesystem as a tar archive.
- ◆ `docker wait`: Block until a container stops and then print its exit code.
- ◆ `docker start`: Start one or more stopped containers.
- ◆ `docker pause`: Pause all processes within one or more containers.
- ◆ `docker unpause`: Unpause all processes within one or more containers.
- ◆ `docker kill`: Kill one or more running containers.
- ◆ `docker restart`: Restart one or more containers.
- ◆ `docker logs`: Fetch the logs of a container.
- ◆ `docker stats`: Display real-time CPU, memory, and network usage of containers.



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- ◆ `docker attach`: Attach to a running container's STDIN, STDOUT, and STDERR.
- ◆ `docker prune`: Remove all stopped containers, unused networks, and dangling images.
- ◆ `docker image history`: Show the history of an image, including intermediate image layers.
- ◆ `docker image inspect`: Display detailed information about a Docker image.
- ◆ `docker image tag`: Tag a Docker image to a repository.
- ◆ `docker image build`: Build a Docker image from a Dockerfile.
  
- ◆ `docker swarm init`: Initialize a swarm on the current node and make it the manager.
- ◆ `docker swarm join`: Join a swarm as a worker node.
- ◆ `docker swarm join-token`: Manage join tokens for worker and manager nodes.
- ◆ `docker swarm leave`: Make the current node leave the swarm.
- ◆ `docker node ls`: List nodes in the swarm.
- ◆ `docker service create`: Create a new service, specifying the desired state, replicas, etc.
- ◆ `docker service ls`: List services running in the swarm.
- ◆ `docker service inspect`: Display detailed information about a service.
- ◆ `docker service update`: Update a service with new configurations.

- ◆ docker service scale: Scale a service to a specified number of replicas.
- ◆ docker service rm: Remove a service from the swarm.



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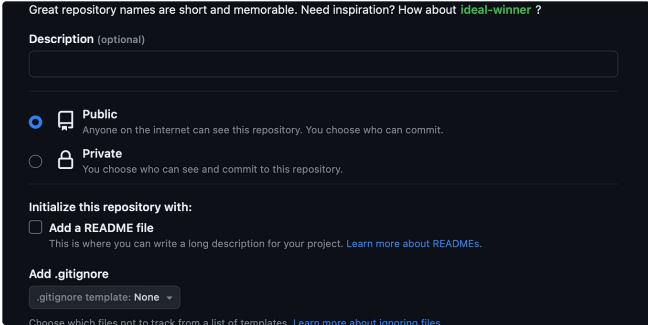
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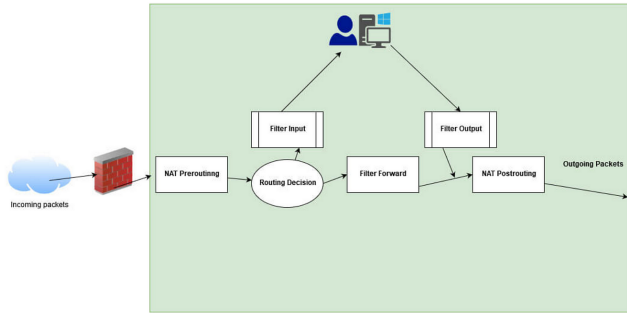
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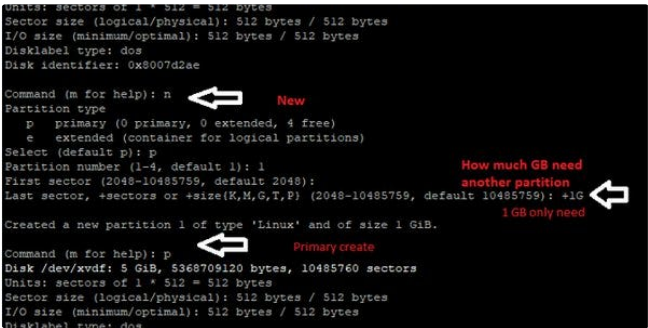
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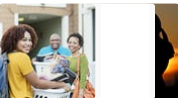
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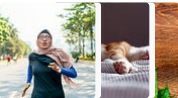
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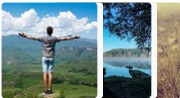
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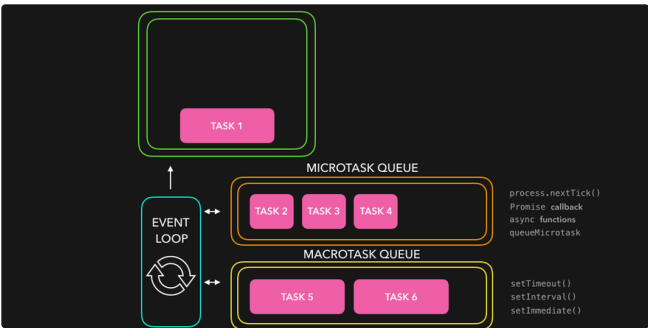
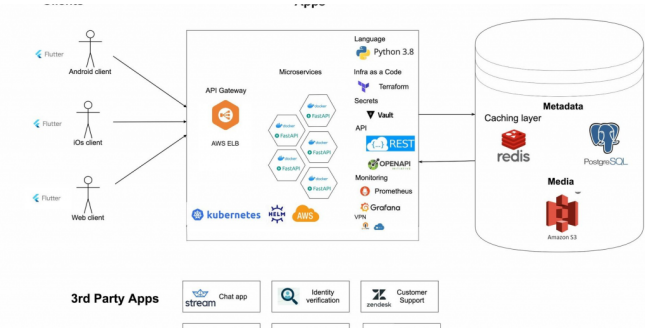
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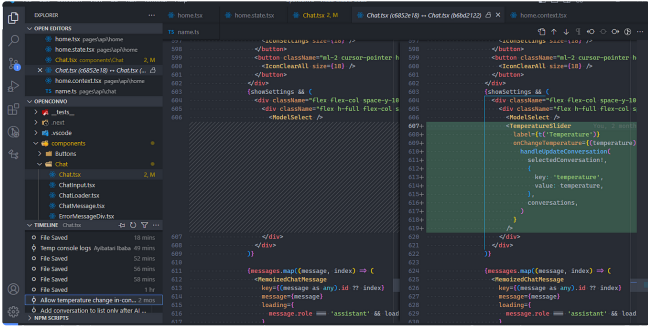
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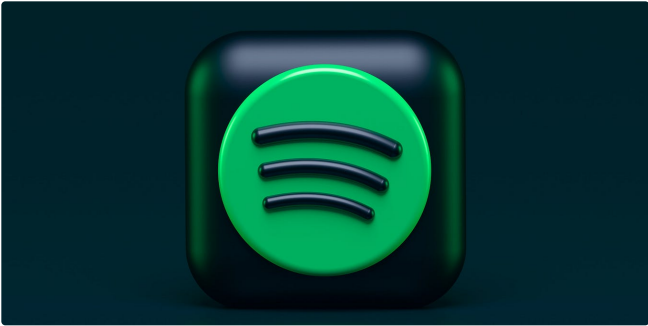
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