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#####  
# DOCKER  
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docker build -t friendlyname .           # Create image using this directory's  
Dockerfile  
docker run -p 4000:80 friendlyname       # Run "friendlyname" mapping port 4000 to 80  
docker run -d -p 4000:80 friendlyname    # Same thing, but in detached mode  
docker exec -it [container-id] bash      # Enter a running container  
docker ps                                # See a list of all running containers  
docker stop <hash>                       # Gracefully stop the specified container  
docker ps -a                             # See a list of all containers, even the ones  
not running  
docker kill <hash>                       # Force shutdown of the specified container  
docker rm <hash>                         # Remove the specified container from this  
machine  
docker rm $(docker ps -a -q)             # Remove all containers from this machine  
docker images -a                         # Show all images on this machine  
docker rmi <imagename>                   # Remove the specified image from this  
machine  
docker rmi $(docker images -q)           # Remove all images from this machine  
docker logs <container-id> -f           # Live tail a container's logs  
docker login                             # Log in this CLI session using your Docker  
credentials  
docker tag <image> username/repository:tag # Tag <image> for upload to registry  
docker push username/repository:tag      # Upload tagged image to registry  
docker run username/repository:tag       # Run image from a registry  
docker system prune                     # Remove all unused containers, networks,  
images (both dangling and unreferenced), and optionally, volumes. (Docker 17.06.1-ce and  
superior)  
docker system prune -a                  # Remove all unused containers, networks,  
images not just dangling ones (Docker 17.06.1-ce and superior)  
docker volume prune                     # Remove all unused local volumes  
docker network prune                    # Remove all unused networks
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#####  
# DOCKER COMPOSE  
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docker-compose up                       # Create and start containers  
docker-compose up -d                    # Create and start containers in detached  
mode  
docker-compose down                     # Stop and remove containers, networks,  
images, and volumes  
docker-compose logs                     # View output from containers  
docker-compose restart                  # Restart all service  
docker-compose pull                     # Pull all image service  
docker-compose build                    # Build all image service  
docker-compose config                   # Validate and view the Compose file  
docker-compose scale <service_name>=<replica> # Scale special service(s)  
docker-compose top                      # Display the running processes  
docker-compose run -rm -p 2022:22 web bash # Start web service and runs bash as its  
command, remove old container.
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#####  
# DOCKER SERVICES  
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docker service create <options> <image> <command> # Create new service  
docker service inspect --pretty <service_name>    # Display detailed information  
Service(s)  
docker service ls                          # List Services  
docker service ps                          # List the tasks of Services  
docker service scale <service_name>=<replica>      # Scale special service(s)
```

docker service update <options> <service\_name> # Update Service options

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#####  
# DOCKER STACK  
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```
docker stack ls # List all running applications on this  
Docker host  
docker stack deploy -c <composefile> <appname> # Run the specified Compose file  
docker stack services <appname> # List the services associated with an  
app  
docker stack ps <appname> # List the running containers associated  
with an app  
docker stack rm <appname> # Tear down an application
```

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#####  
# DOCKER MACHINE  
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```
docker-machine create --driver virtualbox myvm1 # Create a VM  
(Mac, Win7, Linux)  
docker-machine create -d hyperv --hyperv-virtual-switch "myswitch" myvm1 # Win10  
docker-machine env myvm1 # View basic  
information about your node  
docker-machine ssh myvm1 "docker node ls" # List the  
nodes in your swarm  
docker-machine ssh myvm1 "docker node inspect <node ID>" # Inspect a  
node  
docker-machine ssh myvm1 "docker swarm join-token -q worker" # View join  
token  
docker-machine ssh myvm1 # Open an SSH  
session with the VM; type "exit" to end  
docker-machine ssh myvm2 "docker swarm leave" # Make the  
worker leave the swarm  
docker-machine ssh myvm1 "docker swarm leave -f" # Make master  
leave, kill swarm  
docker-machine start myvm1 # Start a VM  
that is currently not running  
docker-machine stop $(docker-machine ls -q) # Stop all  
running VMs  
docker-machine rm $(docker-machine ls -q) # Delete all  
VMs and their disk images  
docker-machine scp docker-compose.yml myvm1:~ # Copy file to  
node's home dir  
docker-machine ssh myvm1 "docker stack deploy -c <file> <app>" # Deploy an app
```