####### # DOCKER ####### docker init # Creates Docker-related starter files 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 # See a list of all docker ps -a 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 -f <hash> # Remove force 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 # Log in this CLI session docker login 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

containers, networks, images (both dangling and unreferenced), and

optionally, volumes. (Docker 17.06.1—ce and superior)

# Run image from a

# Remove all unused

# Remove all unused

registry

registry

docker system prune

docker system prune -a

docker run username/repository:tag

```
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
#######
# DOCKER COMPOSE
#######
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
                                      # Restart all service
docker-compose restart
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.
#######
# DOCKER SERVICES
#######
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
docker service update <options> <service name>  # Update Service
options
#######
# DOCKER STACK
#######
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
#######
# DOCKER MACHINE
#######
docker-machine create --driver virtualbox myvm1
# Create a VM (Mac, Win7, Linux)
docker-machine create -d hyperv --hyperv-virtual-switch "myswitch"
mvvm1 # 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
```