Docker Swarm Cheatsheet

Node management

- Initialize a swarm: docker swarm init
- List swarm nodes: docker node 1s
- Get the command for new nodes to join a swarm: docker swarm join-token worker or docker swarm join-token worker. The command prints the required command and token: E.g. To add a worker to this swarm, run the following command:

```
docker swarm join \
--token SWMTKN-1-49nj1cmql0jkz5s954yi3oex3nedyz0fb0xx14ie39trti4wxv-
8vxv8rssmk743ojnwacrr2e7c \
192.168.99.100:2377
```

- Check service manger reachability: docker node inspect manager-node-name --format "{{
 .ManagerStatus.Reachability }}"
- Check node state: docker node inspect node-name --format "{{ .Status.State }}"
- Put a node in maintenance mode: docker node update --availability drain node_name
- Activate a node (after maintenance): docker node update --availability active node_name
- Add a label: docker node update --label-add key=value node_name
- Remove a label: docker node update --label-rm key node_name
- Search label: docker node inspect node name | grep Labels -C5

Service management

- List services (manager node): docker service 1s
- Describe services (manager node): docker service ps service_name
- Inspect a service: docker service inspect service_name
- Scale a service: docker service scale service name=N
- Remove service: docker service rm service_name

Stack management

- Deploy stack from docker-compose file: docker stack deploy -c docker-compose.yml stack_name
- List stacks: docker stack 1s
- List stack services: docker stack services stack_name
- List stack tasks: docker stack ps stack_name

• Remove stack: docker stack rm stack name

Network management

- List networks: docker network 1s
- Create overlay network: docker network create -d overlay network_name
- Remove network: docker network rm network name

Monitor services

- Docker stats: docker stats
- Service logs: docker service logs service_name
- Cluster-wide monitoring and log collection with Sematext Docker Agent on Swarm: Create a
 Docker App in Sematext Cloud to get monitoring tokens and use them instead the
 placeholders YourContainerToken, YourInfraToken and YourLogsToken in commands below.
 Follow the instructions in the UI, which shows the following command with your tokens:

```
docker service create --mode global --name st-agent \
--restart-condition any \
--mount type=bind,src=/var/run,dst=/var/run/ \
--mount type=bind,src=/usr/lib,dst=/host/usr/lib \
--mount type=bind,src=/sys/kernel/debug,dst=/sys/kernel/debug \
--mount type=bind,src=/proc,dst=/host/proc,readonly \
--mount type=bind, src=/etc, dst=/host/etc, readonly \
--mount type=bind,src=/sys,dst=/host/sys,readonly \
-e NODE_NAME={{.Node.Hostname}} \
-e CONTAINER_TOKEN=YourContainerToken \
-e INFRA_TOKEN=YourInfraToken \
-e JOURNAL DIR=/var/run/st-agent \
-e LOGGING_REQUEST_TRACKING=false \
-e LOGGING_WRITE_EVENTS=false \
-e LOGGING LEVEL=info \
sematext/agent:latest
```

Collect all container logs:

```
docker service create --mode global --name st-logagent \
--restart-condition any \
--mount type=bind,src=/var/run/docker.sock,dst=/var/run/docker.sock \
-e LOGS_TOKEN=YourLogsToken \
sematext/logagent:latest
```