docker stack services

Estimated reading time: 3 minutes

Description

List the services in the stack

API 1.25+ (https://docs.docker.com/engine/api/v1.25/) The client and daemon API must both be at least 1.25 (https://docs.docker.com/engine/api/v1.25/) to use this command. Use the `docker version` command on the client to check your client and daemon API versions.

Usage

```
docker stack services [OPTIONS] STACK
```

Options

Name, shorthand	Default	Description
`--filter , -f`		Filter output based on conditions provided
`--format`		Pretty-print services using a Go template
`--namespace`	Kubernetes	Kubernetes namespace to use
`--quiet , -q`		Only display IDs
`--kubeconfig`	Kubernetes	Kubernetes config file
`--orchestrator`		Orchestrator to use (swarm|kubernetes|all)

Parent command

Command	Description
docker stack (https://docs.docker.com/engine/reference/commandline/stack)	Manage Docker stacks

Related commands

Command	Description
docker stack deploy (https://docs.docker.com/engine/reference/commandline/stack_deploy/)	Deploy a new stack or update an existing stack
docker stack ls (https://docs.docker.com/engine/reference/commandline/stack_ls/)	List stacks
docker stack ps (https://docs.docker.com/engine/reference/commandline/stack_ps/)	List the tasks in the stack
docker stack rm (https://docs.docker.com/engine/reference/commandline/stack_rm/)	Remove one or more stacks
docker stack services (https://docs.docker.com/engine/reference/commandline/stack_services/)	List the services in the stack

Extended description

Lists the services that are running as part of the specified stack. This command has to be run targeting a manager node.

Examples

The following command shows all services in the `myapp` stack:

```
$ docker stack services myapp

ID              NAME            REPLICAS   IMAGE
7be5ei6sqeye    myapp_web       1/1        nginx@sha256:23f809e7fd5952e7d5be065b4d
dn7m7nhhfb9y    myapp_db        1/1        mysql@sha256:a9a5b559f8821fe73d58c3606d
```

Filtering

The filtering flag (`-f` or `--filter`) format is a `key=value` pair. If there is more than one filter, then pass multiple flags (e.g. `--filter "foo=bar" --filter "bif=baz"`). Multiple filter flags are combined as an `OR` filter.

The following command shows both the `web` and `db` services:

```
$ docker stack services --filter name=myapp_web --filter name=myapp_db myapp

ID              NAME            REPLICAS   IMAGE
7be5ei6sqeye    myapp_web       1/1        nginx@sha256:23f809e7fd5952e7d5be065b4d
dn7m7nhhfb9y    myapp_db        1/1        mysql@sha256:a9a5b559f8821fe73d58c3606d
```

The currently supported filters are:

- id / ID (`--filter id=7be5ei6sqeye` , or `--filter ID=7be5ei6sqeye`)

  - Swarm: supported
  - Kubernetes: not supported
- label (`--filter label=key=value`)

  - Swarm: supported
  - Kubernetes: supported
- mode (`--filter mode=replicated` , or `--filter mode=global`)

  - Swarm: not supported
  - Kubernetes: supported
- name (`--filter name=myapp_web`)

  - Swarm: supported
  - Kubernetes: supported
- node (`--filter node=mynode`)

  - Swarm: not supported
  - Kubernetes: supported
- service (`--filter service=web`)

  - Swarm: not supported
  - Kubernetes: supported
```

# Formatting

The formatting options ( `--format` ) pretty-prints services output using a Go template.

Valid placeholders for the Go template are listed below:

| Placeholder | Description |
|---|---|
| `.ID` | Service ID |
| `.Name` | Service name |
| `.Mode` | Service mode (replicated, global) |
| `.Replicas` | Service replicas |
| `.Image` | Service image |

When using the `--format` option, the `stack services` command will either output the data exactly as the template declares or, when using the `table` directive, includes column headers as well.

The following example uses a template without headers and outputs the `ID`, `Mode`, and `Replicas` entries separated by a colon for all services:

```
$ docker stack services --format "{{.ID}}: {{.Mode}} {{.Replicas}}"

0zmvwuiu3vue: replicated 10/10
fm6uf97exkul: global 5/5
```