NAME

docker-inspect - Return low-level information on Docker objects

SYNOPSIS

docker inspect [OPTIONS] NAME|ID [NAME|ID...]

DESCRIPTION

This displays the low-level information on Docker object(s) (e.g. container, image, volume,network, node, service, or task) identified by name or ID. By default, this will render all results in a JSON array. If the container and image have the same name, this will return container JSON for unspecified type. If a format is specified, the given template will be executed for each result.

EXAMPLES

Get information about an image when image name conflicts with the container name, e.g. both image and container are named rhel7:

```
$ docker inspect --type=image rhel7
[
{
 "Id": "fe01a428b9d9de35d29531e9994157978e8c48fa693e1bf1d221dffbbb67b170",
 "Parent": "10acc31def5d6f249b548e01e8ffbaccfd61af0240c17315a7ad393d022c5ca2",
 ....
}
]
```

Getting information on a container

To get information on a container use its ID or instance name:

```
$ docker inspect d2cc496561d6
[{
"Id": "d2cc496561d6d520cbc0236b4ba88c362c446a7619992123f11c809cded25b47",
"Created": "2015-06-08T16:18:02.505155285Z",
"Path": "bash",
"Args": [],
"State": {
    "Running": false,
    "Paused": false,
    "Restarting": false,
    "OOMKilled": false,
    "Dead": false,
    "Pid": 0,
    "ExitCode": 0,
    "Error": "",
    "StartedAt": "2015-06-08T16:18:03.643865954Z",
    "FinishedAt": "2015-06-08T16:57:06.448552862Z"
},
"Image": "ded7cd95e059788f2586a51c275a4f151653779d6a7f4dad77c2bd34601d94e4",
"NetworkSettings": {
    "Networks": {
        "bridge": {
```

```
                "NetworkID": "7ea29fc1412292a2d7bba362f9253545fecdfa8ce9a6e37dd10ba8bee7
                "EndpointID": "7587b82f0dada3656fda26588aee72630c6fab1536d36e394b2bfbcf8
                "Gateway": "172.17.0.1",
                "IPAddress": "172.17.0.2",
                "IPPrefixLen": 16,
                "IPv6Gateway": "",
                "GlobalIPv6Address": "",
                "GlobalIPv6PrefixLen": 0,
                "MacAddress": "02:42:ac:12:00:02"
            }
        },
        "Ports": {
            "80/tcp": [
                {
                    "HostIp": "0.0.0.0",
                    "HostPort": "8080"
                },
                {
                    "HostIp": "::",
                    "HostPort": "8080"
                }
            ]
        },
        "SandboxID": "6b4851d1903e16dd6a567bd526553a86664361f31036eaaa2f8454d6f4611f6f",
        "SandboxKey": "/var/run/docker/netns/6b4851d1903e"
    },
    "ResolvConfPath": "/var/lib/docker/containers/d2cc496561d6d520cbc0236b4ba88c362c446a
    "HostnamePath": "/var/lib/docker/containers/d2cc496561d6d520cbc0236b4ba88c362c446a76
    "HostsPath": "/var/lib/docker/containers/d2cc496561d6d520cbc0236b4ba88c362c446a76199
    "LogPath": "/var/lib/docker/containers/d2cc496561d6d520cbc0236b4ba88c362c446a7619992
    "Name": "/adoring_wozniak",
    "RestartCount": 0,
    "Driver": "overlay2",
    "MountLabel": "",
    "ProcessLabel": "",
    "Mounts": [
      {
        "Source": "/data",
        "Destination": "/data",
        "Mode": "ro,Z",
        "RW": false
        "Propagation": ""
      }
    ],
    "AppArmorProfile": "",
    "ExecIDs": null,
    "HostConfig": {
        "Binds": null,
        "ContainerIDFile": "",
        "Memory": 0,
        "MemorySwap": 0,
        "CpuShares": 0,
        "CpuPeriod": 0,
        "CpusetCpus": "",
```

```
            "CpusetMems": "",
            "CpuQuota": 0,
            "BlkioWeight": 0,
            "OomKillDisable": false,
            "Privileged": false,
            "PortBindings": {},
            "Links": null,
            "PublishAllPorts": false,
            "Dns": null,
            "DnsSearch": null,
            "DnsOptions": null,
            "ExtraHosts": null,
            "VolumesFrom": null,
            "Devices": [],
            "NetworkMode": "bridge",
            "IpcMode": "",
            "PidMode": "",
            "UTSMode": "",
            "CapAdd": null,
            "CapDrop": null,
            "RestartPolicy": {
                "Name": "no",
                "MaximumRetryCount": 0
            },
            "SecurityOpt": null,
            "ReadonlyRootfs": false,
            "Ulimits": null,
            "LogConfig": {
                "Type": "json-file",
                "Config": {}
            },
            "CgroupParent": ""
        },
        "GraphDriver": {
            "Data": {
                "LowerDir": "/var/lib/docker/overlay2/44b1d1f04db6b1b73a86f9a62678673bf5d16d
                "MergedDir": "/var/lib/docker/overlay2/c7846fe68c6f18247ab9b8672114dde9f506b
                "UpperDir": "/var/lib/docker/overlay2/c7846fe68c6f18247ab9b8672114dde9f506bc
                "WorkDir": "/var/lib/docker/overlay2/c7846fe68c6f18247ab9b8672114dde9f506bc1
            },
            "Name": "overlay2"
        },
        "Config": {
            "Hostname": "d2cc496561d6",
            "Domainname": "",
            "User": "",
            "AttachStdin": true,
            "AttachStdout": true,
            "AttachStderr": true,
            "ExposedPorts": null,
            "Tty": true,
            "OpenStdin": true,
            "StdinOnce": true,
            "Env": null,
```

```
        "Cmd": [
            "bash"
        ],
        "Image": "fedora",
        "Volumes": null,
        "VolumeDriver": "",
        "WorkingDir": "",
        "Entrypoint": null,
        "NetworkDisabled": false,
        "MacAddress": "",
        "OnBuild": null,
        "Labels": {},
        "Memory": 0,
        "MemorySwap": 0,
        "CpuShares": 0,
        "Cpuset": "",
        "StopSignal": "SIGTERM"
    }
    }
    ]
```

Getting the IP address of a container instance

To get the IP address of a container use:

```
$ docker inspect --format='{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}'
172.17.0.2
```

Listing all port bindings

One can loop over arrays and maps in the results to produce simple text output:

```
$ docker inspect --format='{{range $p, $conf := .NetworkSettings.Ports}} \
  {{$p}} -> {{(index $conf 0).HostPort}} {{end}}' d2cc496561d6
  80/tcp -> 80
```

You can get more information about how to write a Go template from: https://pkg.go.dev/text/template.

Getting size information on a container

```
$ docker inspect -s d2cc496561d6
[
{
....
"SizeRw": 0,
"SizeRootFs": 972,
....
}
]
```

Getting information on an image

Use an image's ID or name (e.g., repository/name[:tag]) to get information about the image:

```
docker inspect hello-world
[
```

```
        {
            "Id": "sha256:54e66cc1dd1fcb1c3c58bd8017914dbed8701e2d8c74d9262e26bd9cc1642d
            "RepoTags": [
                "hello-world:latest"
            ],
            "RepoDigests": [
                "hello-world@sha256:54e66cc1dd1fcb1c3c58bd8017914dbed8701e2d8c74d9262e26
            ],
            "Parent": "",
            "Comment": "buildkit.dockerfile.v0",
            "Created": "2025-08-08T19:05:17Z",
            "DockerVersion": "",
            "Author": "",
            "Config": {
                "Env": [
                    "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
                ],
                "Cmd": [
                    "/hello"
                ],
                "WorkingDir": "/"
            },
            "Architecture": "arm64",
            "Variant": "v8",
            "Os": "linux",
            "Size": 16963,
            "RootFS": {
                "Type": "layers",
                "Layers": [
                    "sha256:50163a6b11927e67829dd6ba5d5ba2b52fae0a17adb18c1967e24c13a62b
                ]
            },
            "Metadata": {
                "LastTagTime": "2025-09-30T14:06:24.148634215Z"
            },
            "Descriptor": {
                "mediaType": "application/vnd.oci.image.index.v1+json",
                "digest": "sha256:54e66cc1dd1fcb1c3c58bd8017914dbed8701e2d8c74d9262e26bd
                "size": 12341
            }
        }
    ]
```


OPTIONS

-f, **--format**="" Format output using a custom template: 'json': Print in JSON format 'TEMPLATE': Print output using the given Go template. Refer to https://docs.docker.com/go/formatting/ for more information about formatting output with templates

-s, **--size**[=false] Display total file sizes if the type is container

--type="" Only inspect objects of the given type

SEE ALSO

docker(1)