



## ***Linux Ubuntu 26.04 Manual Pages on command 'docker-inspect.1'***

***\$ man docker-inspect.1***

DOCKER(1) Docker User Manuals DOCKER(1)

### 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": "7ea29fc1412292a2d7bba362f9253545fecdfa8ce9a6e37dd10ba8bee7129812",  
        "EndpointID": "7587b82f0dada3656fda26588aee72630c6fab1536d36e394b2bfbcf898c971d",  
        "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/d2cc496561d6d520cbc0236b4ba88c362c446a7619992123f11c809cded25b47/resolv.conf",
"HostnamePath":
"/var/lib/docker/containers/d2cc496561d6d520cbc0236b4ba88c362c446a7619992123f11c809cded25b47/hostname",
"HostsPath":
"/var/lib/docker/containers/d2cc496561d6d520cbc0236b4ba88c362c446a7619992123f11c809cded25b47/hosts",
"LogPath":
"/var/lib/docker/containers/d2cc496561d6d520cbc0236b4ba88c362c446a7619992123f11c809cded25b47/d2cc496561d6d5
20cbc0236b4ba88c362c446a7619992123f11c809cded25b47-json.log",
"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": {
```

"LowerDir":

"/var/lib/docker/overlay2/44b1d1f04db6b1b73a86f9a62678673bf5d16d9a6b62c13e859aa34a99cce5ea/diff:/var/lib/docker/overlay2/ef637181eb13e30e84b7382183364ed7fd7ff7be22d8bb87049e36b75fb89a86/diff:/var/lib/docker/overlay2/64fb0f850b1289cd09cbc3b077cab2c0f59a4f540c67f997b094fc3652b9b0d6/diff:/var/lib/docker/overlay2/68c4d1411addc2b2bd07e900ca3a059c9c5f9fa2607efd87d8d715a0080ed242/diff",

"MergedDir":

"/var/lib/docker/overlay2/c7846fe68c6f18247ab9b8672114dde9f506bc164081a895c465716eeb10f2bc/merged",

"UpperDir":

"/var/lib/docker/overlay2/c7846fe68c6f18247ab9b8672114dde9f506bc164081a895c465716eeb10f2bc/diff",

"WorkDir":

"/var/lib/docker/overlay2/c7846fe68c6f18247ab9b8672114dde9f506bc164081a895c465716eeb10f2bc/work"

```
  },
  "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}}' d2cc496561d6
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": "sha256:54e66cc1dd1fcb1c3c58bd8017914dbed8701e2d8c74d9262e26bd9cc1642d31",
    "RepoTags": [
      "hello-world:latest"
    ],
    "RepoDigests": [
      "hello-world@sha256:54e66cc1dd1fcb1c3c58bd8017914dbed8701e2d8c74d9262e26bd9cc1642d31"
    ],
    "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": [
      "sha256:50163a6b11927e67829dd6ba5d5ba2b52fae0a17adb18c1967e24c13a62bffa"
    ]
  },
  "Metadata": {
    "LastTagTime": "2025-09-30T14:06:24.148634215Z"
  },
  "Descriptor": {
    "mediaType": "application/vnd.oci.image.index.v1+json",
    "digest": "sha256:54e66cc1dd1fcb1c3c58bd8017914dbed8701e2d8c74d9262e26bd9cc1642d31",
    "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)`