

NAME

docker-network-inspect - Display detailed information on one or more networks

SYNOPSIS

docker network inspect [OPTIONS] NETWORK [NETWORK...]

DESCRIPTION

Returns information about one or more networks. By default, this command renders all results in a JSON object. For example, if you connect two containers to the default **bridge** network:

```
$ sudo docker run -itd --name=container1 busybox
f2870c98fd504370fb86e59f32cd0753b1ac9b69b7d80566ffc7192a82b3ed27
```

```
$ sudo docker run -itd --name=container2 busybox
bda12f8922785d1f160be70736f26c1e331ab8aaf8ed8d56728508f2e2fd4727
```

The **network inspect** command shows the containers, by id, in its results. You can specify an alternate format to execute a given template for each result. Go's text/template [⟨https://pkg.go.dev/text/template⟩](https://pkg.go.dev/text/template) package describes all the details of the format.

```
$ sudo docker network inspect bridge
```

```
[
  {
    "Name": "bridge",
    "Id": "b2b1a2cba717161d984383fd68218cf70bbbd17d328496885f7c921333228b0f",
    "Scope": "local",
    "Driver": "bridge",
    "IPAM": {
      "Driver": "default",
      "Config": [
        {
          "Subnet": "172.17.42.1/16",
          "Gateway": "172.17.42.1"
        }
      ]
    },
    "Internal": false,
    "Ingress": false,
    "Containers": {
      "bda12f8922785d1f160be70736f26c1e331ab8aaf8ed8d56728508f2e2fd4727": {
        "Name": "container2",
        "EndpointID": "0aebb8fcd2b282abe1365979536f21ee4ceaf3ed56177c628eae9",
        "MacAddress": "02:42:ac:11:00:02",
        "IPv4Address": "172.17.0.2/16",
        "IPv6Address": ""
      },
      "f2870c98fd504370fb86e59f32cd0753b1ac9b69b7d80566ffc7192a82b3ed27": {
        "Name": "container1",
        "EndpointID": "a00676d9c91a96bbe5bcfb34f705387a33d7cc365bac1a29e4e97",
        "MacAddress": "02:42:ac:11:00:01",
        "IPv4Address": "172.17.0.1/16",

```

```

        "IPv6Address": ""
    },
    "Options": {
        "com.docker.network.bridge.default_bridge": "true",
        "com.docker.network.bridge.enable_icc": "true",
        "com.docker.network.bridge.enable_ip_masquerade": "true",
        "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
        "com.docker.network.bridge.name": "docker0",
        "com.docker.network.driver.mtu": "1500"
    }
}
]

```

Returns the information about the user-defined network:

```

$ docker network create simple-network
69568e6336d8c96bbf57869030919f7c69524f71183b44d80948bd3927c87f6a
$ docker network inspect simple-network
[
  {
    "Name": "simple-network",
    "Id": "69568e6336d8c96bbf57869030919f7c69524f71183b44d80948bd3927c87f6a",
    "Scope": "local",
    "Driver": "bridge",
    "IPAM": {
      "Driver": "default",
      "Config": [
        {
          "Subnet": "172.22.0.0/16",
          "Gateway": "172.22.0.1"
        }
      ]
    },
    "Containers": {},
    "Options": {}
  }
]

```

docker network inspect --verbose for swarm mode overlay networks shows service-specific details such as the service's VIP and port mappings. It also shows IPs of service tasks, and the IPs of the nodes where the tasks are running.

Following is an example output for an overlay network **ov1** that has one service **s1** attached to. service **s1** in this case has three replicas.

```

$ docker network inspect --verbose ov1
[
  {
    "Name": "ov1",
    "Id": "ybmyjvao9vtzy3oorxbssj13b",
    "Created": "2017-03-13T17:04:39.776106792Z",
    "Scope": "swarm",

```

```

"Driver": "overlay",
"EnableIPv6": false,
"IPAM": {
  "Driver": "default",
  "Options": null,
  "Config": [
    {
      "Subnet": "10.0.0.0/24",
      "Gateway": "10.0.0.1"
    }
  ]
},
"Internal": false,
"Attachable": false,
"Ingress": false,
"Containers": {
  "020403bd88a15f60747fd25d1ad5fa1272eb740e8a97fc547d8ad07b2f721c5e": {
    "Name": "s1.1.pjn2ik0sfkgkfzed3h0s00gs9o",
    "EndpointID": "ad16946f416562d658f3bb30b9830d73ad91ccf6feae44411269c",
    "MacAddress": "02:42:0a:00:00:04",
    "IPv4Address": "10.0.0.4/24",
    "IPv6Address": ""
  }
},
"Options": {
  "com.docker.network.driver.overlay.vxlanid_list": "4097"
},
"Labels": {},
"Peers": [
  {
    "Name": "net-3-5d3cfd30a58c",
    "IP": "192.168.33.13"
  },
  {
    "Name": "net-1-6ecbc0040a73",
    "IP": "192.168.33.11"
  },
  {
    "Name": "net-2-fb80208efd75",
    "IP": "192.168.33.12"
  }
],
"Services": {
  "s1": {
    "VIP": "10.0.0.2",
    "Ports": [],
    "LocalLBIndex": 257,
    "Tasks": [
      {
        "Name": "s1.2.q4hcq2aiiml25ubtrtg4q1txt",
        "EndpointID": "040879b027e55fb658e8b60ae3b87c6cdac7d291e86a1",
        "EndpointIP": "10.0.0.5",
        "Info": {
          "Host IP": "192.168.33.11"
        }
      }
    ]
  }
}

```

```

    }
  },
  {
    "Name": "s1.3.yawl4cgkp7imkfx469kn9j6lm",
    "EndpointID": "106edff9f120efe44068b834e1cddb5b39dd4a3af7021",
    "EndpointIP": "10.0.0.3",
    "Info": {
      "Host IP": "192.168.33.12"
    }
  },
  {
    "Name": "s1.1.pjn2ik0sfgkfzed3h0s00gs9o",
    "EndpointID": "ad16946f416562d658f3bb30b9830d73ad91ccf6feae4",
    "EndpointIP": "10.0.0.4",
    "Info": {
      "Host IP": "192.168.33.13"
    }
  }
]
}
}
}
]

```

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

-v, --verbose[=false] Verbose output for diagnostics

SEE ALSO

docker-network(1)