

Administration : commandes utiles

Les commandes ci-dessous sont directement copiées depuis la documentation de docker :

<https://docs.docker.com/reference/cli/docker/>

Les usages principaux des commandes ont déjà été abordés jusqu'ici.

docker image

| Command | Description |
|-----------------------------------|---|
| <code>docker image history</code> | Show the history of an image |
| <code>docker image import</code> | Import the contents from a tarball to create a filesystem image |
| <code>docker image inspect</code> | Display detailed information on one or more images |
| <code>docker image load</code> | Load an image from a tar archive or STDIN |
| <code>docker image ls</code> | List images |
| <code>docker image prune</code> | Remove unused images |
| <code>docker image pull</code> | Download an image from a registry |
| <code>docker image push</code> | Upload an image to a registry |
| <code>docker image rm</code> | Remove one or more images |

| Command | Description |
|--------------------------------|--|
| <code>docker image save</code> | Save one or more images to a tar archive (streamed to STDOUT by default) |
| <code>docker image tag</code> | Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE |

```
debian@debian:~$ docker image inspect ubuntu
```

```
[
  {
    "Id": "sha256:e0f16e6366fef4e695b9f8788819849d265cde40eb84300c0147a6e5261d2750",
    "RepoTags": [
      "ubuntu:24.04",
      "ubuntu:latest"
    ],
    "RepoDigests": [
      "ubuntu@sha256:7c06e91f61fa88c08cc74f7e1b7c69ae24910d745357e0dfe1d2c0322aaf20f9"
    ],
    "Parent": "",
    "Comment": "",
    "Created": "2025-07-30T06:51:03.091147588Z",
    "DockerVersion": "24.0.7",
    "Author": "",
    "Architecture": "amd64",
    "Os": "linux",
    "Size": 78122494,
    "GraphDriver": {
      "Data": {
        "MergedDir":
"/var/lib/docker/overlay2/8a59ab09262cee8d6004dcd5b978cd668baae2521d83a0621e5d1366fbd864a1/mer
ged",
        "UpperDir":
"/var/lib/docker/overlay2/8a59ab09262cee8d6004dcd5b978cd668baae2521d83a0621e5d1366fbd864a1/dif
f",
        "WorkDir":
"/var/lib/docker/overlay2/8a59ab09262cee8d6004dcd5b978cd668baae2521d83a0621e5d1366fbd864a1/wor
k"
      }
    },
    "Name": "overlay2"
```

```

    },
    "RootFS": {
      "Type": "layers",
      "Layers": [
        "sha256:cd9664b1462ea111a41bdadf65ce077582cdc77e28683a4f6996dd03afcc56f5"
      ]
    },
    "Metadata": {
      "LastTagTime": "0001-01-01T00:00:00Z"
    },
    "Config": {
      "Cmd": [
        "/bin/bash"
      ],
      "Entrypoint": null,
      "Env": [
        "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
      ],
      "Labels": {
        "org.opencontainers.image.ref.name": "ubuntu",
        "org.opencontainers.image.version": "24.04"
      },
      "OnBuild": null,
      "User": "",
      "Volumes": null,
      "WorkingDir": ""
    }
  }
}
]

```

docker container

| Command | Description |
|---|---|
| docker container attach | Attach local standard input, output, and error streams to a running container |
| docker container commit | Create a new image from a container's changes |
| docker container cp | Copy files/folders between a container and the local filesystem |

| Command | Description |
|---------------------------------------|--|
| <code>docker container create</code> | Create a new container |
| <code>docker container diff</code> | Inspect changes to files or directories on a container's filesystem |
| <code>docker container exec</code> | Execute a command in a running container |
| <code>docker container export</code> | Export a container's filesystem as a tar archive |
| <code>docker container inspect</code> | Display detailed information on one or more containers |
| <code>docker container kill</code> | Kill one or more running containers |
| <code>docker container logs</code> | Fetch the logs of a container |
| <code>docker container ls</code> | List containers |
| <code>docker container pause</code> | Pause all processes within one or more containers |
| <code>docker container port</code> | List port mappings or a specific mapping for the container |
| <code>docker container prune</code> | Remove all stopped containers |
| <code>docker container rename</code> | Rename a container |
| <code>docker container restart</code> | Restart one or more containers |
| <code>docker container rm</code> | Remove one or more containers |
| <code>docker container run</code> | Create and run a new container from an image |
| <code>docker container start</code> | Start one or more stopped containers |
| <code>docker container stats</code> | Display a live stream of container(s) resource usage statistics |
| <code>docker container stop</code> | Stop one or more running containers |
| <code>docker container top</code> | Display the running processes of a container |
| <code>docker container unpause</code> | Unpause all processes within one or more containers |
| <code>docker container update</code> | Update configuration of one or more containers |
| <code>docker container wait</code> | Block until one or more containers stop, then print their exit codes |

```
debian@debian:~$ docker inspect c5
```

```
[  
  {
```

```
"Id": "f5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158",
"Created": "2025-08-29T20:35:19.745912071Z",
"Path": "/bin/bash",
"Args": [],
"State": {
  "Status": "running",
  "Running": true,
  "Paused": false,
  "Restarting": false,
  "OOMKilled": false,
  "Dead": false,
  "Pid": 3405,
  "ExitCode": 0,
  "Error": "",
  "StartedAt": "2025-08-29T20:35:19.948819333Z",
  "FinishedAt": "0001-01-01T00:00:00Z"
},
"Image": "sha256:e0f16e6366fef4e695b9f8788819849d265cde40eb84300c0147a6e5261d2750",
"ResolvConfPath":
"/var/lib/docker/containers/f5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158/r
esolv.conf",
  "HostnamePath":
"/var/lib/docker/containers/f5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158/h
ostname",
  "HostsPath":
"/var/lib/docker/containers/f5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158/h
osts",
  "LogPath":
"/var/lib/docker/containers/f5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158/f
5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158-json.log",
  "Name": "/c5",
  "RestartCount": 0,
  "Driver": "overlay2",
  "Platform": "linux",
  "MountLabel": "",
  "ProcessLabel": "",
  "AppArmorProfile": "docker-default",
  "ExecIDs": null,
  "HostConfig": {
```

```
"Binds": null,
"ContainerIDFile": "",
"LogConfig": {
  "Type": "json-file",
  "Config": {}
},
"NetworkMode": "bridge",
"PortBindings": {},
"RestartPolicy": {
  "Name": "no",
  "MaximumRetryCount": 0
},
"AutoRemove": false,
"VolumeDriver": "",
"VolumesFrom": null,
"ConsoleSize": [
  54,
  235
],
"CapAdd": null,
"CapDrop": null,
"CgroupnsMode": "private",
"Dns": [],
"DnsOptions": [],
"DnsSearch": [],
"ExtraHosts": null,
"GroupAdd": null,
"IpcMode": "private",
"Cgroup": "",
"Links": null,
"OomScoreAdj": 0,
"PidMode": "",
"Privileged": false,
"PublishAllPorts": false,
"ReadonlyRootfs": false,
"SecurityOpt": null,
"UTSMode": "",
"UsersnsMode": "",
"ShmSize": 67108864,
```

```
"Runtime": "runc",
"Isolation": "",
"CpuShares": 0,
"Memory": 0,
"NanoCpus": 0,
"CgroupParent": "",
"BlkioWeight": 0,
"BlkioWeightDevice": [],
"BlkioDeviceReadBps": [],
"BlkioDeviceWriteBps": [],
"BlkioDeviceReadIOps": [],
"BlkioDeviceWriteIOps": [],
"CpuPeriod": 0,
"CpuQuota": 0,
"CpuRealtimePeriod": 0,
"CpuRealtimeRuntime": 0,
"CpusetCpus": "",
"CpusetMems": "",
"Devices": [],
"DeviceCgroupRules": null,
"DeviceRequests": null,
"MemoryReservation": 0,
"MemorySwap": 0,
"MemorySwappiness": null,
"OomKillDisable": null,
"PidsLimit": null,
"Ulimits": [],
"CpuCount": 0,
"CpuPercent": 0,
"IOMaximumIOps": 0,
"IOMaximumBandwidth": 0,
"MaskedPaths": [
  "/proc/asound",
  "/proc/acpi",
  "/proc/interrupts",
  "/proc/kcore",
  "/proc/keys",
  "/proc/latency_stats",
  "/proc/timer_list",
```

```
    "/proc/timer_stats",
    "/proc/sched_debug",
    "/proc/scsi",
    "/sys/firmware",
    "/sys/devices/virtual/powercap"
  ],
  "ReadOnlyPaths": [
    "/proc/bus",
    "/proc/fs",
    "/proc/irq",
    "/proc/sys",
    "/proc/sysrq-trigger"
  ]
},
"GraphDriver": {
  "Data": {
    "ID": "f5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158",
    "LowerDir":
"/var/lib/docker/overlay2/9c831cc72a1726631cb4c9e776e29e8192a4793b9172c2fabf2226fdb8babb9-
init/diff:/var/lib/docker/overlay2/8a59ab09262cee8d6004dcd5b978cd668baae2521d83a0621e5d1366fbd
864a1/diff",
    "MergedDir":
"/var/lib/docker/overlay2/9c831cc72a1726631cb4c9e776e29e8192a4793b9172c2fabf2226fdb8babb9/mer
ged",
    "UpperDir":
"/var/lib/docker/overlay2/9c831cc72a1726631cb4c9e776e29e8192a4793b9172c2fabf2226fdb8babb9/dif
f",
    "WorkDir":
"/var/lib/docker/overlay2/9c831cc72a1726631cb4c9e776e29e8192a4793b9172c2fabf2226fdb8babb9/wor
k"
  },
  "Name": "overlay2"
},
"Mounts": [],
"Config": {
  "Hostname": "f5f93155c9e0",
  "Domainname": "",
  "User": "",
  "AttachStdin": false,
```

```
"AttachStdout": false,
"AttachStderr": false,
"Tty": true,
"OpenStdin": true,
"StdinOnce": false,
"Env": [
    "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
],
"Cmd": [
    "/bin/bash"
],
"Image": "ubuntu",
"Volumes": null,
"WorkingDir": "",
"Entrypoint": null,
"OnBuild": null,
"Labels": {
    "org.opencontainers.image.ref.name": "ubuntu",
    "org.opencontainers.image.version": "24.04"
}
},
"NetworkSettings": {
    "Bridge": "",
    "SandboxID": "34132282ba3e544d46aec112f27ed949a571b114ebc2fee664fc034776e06be7",
    "SandboxKey": "/var/run/docker/netns/34132282ba3e",
    "Ports": {},
    "HairpinMode": false,
    "LinkLocalIPv6Address": "",
    "LinkLocalIPv6PrefixLen": 0,
    "SecondaryIPAddresses": null,
    "SecondaryIPv6Addresses": null,
    "EndpointID": "c239ab855b930537d28d6ebe5343f7eb9241eca8c7e086fe9894aa19c5f7cce7",
    "Gateway": "172.17.0.1",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "IPAddress": "172.17.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "MacAddress": "56:4e:03:5c:c5:d4",
```

```
"Networks": {
  "bridge": {
    "IPAMConfig": null,
    "Links": null,
    "Aliases": null,
    "MacAddress": "56:4e:03:5c:c5:d4",
    "DriverOpts": null,
    "GwPriority": 0,
    "NetworkID":
    "e5ee2347d56211a8f10602c4ebc07b27a15b2f9507af47f3c7c16bdbcf18fc6c",
    "EndpointID":
    "c239ab855b930537d28d6ebe5343f7eb9241eca8c7e086fe9894aa19c5f7cce7",
    "Gateway": "172.17.0.1",
    "IPAddress": "172.17.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "DNSNames": null
  },
  "reseau2": {
    "IPAMConfig": {},
    "Links": null,
    "Aliases": [],
    "MacAddress": "5a:76:dd:aa:62:15",
    "DriverOpts": {},
    "GwPriority": 0,
    "NetworkID":
    "562ad4a6e8b3105f619bd0deb30b89d5aaddde71babd6422ad912ccfa327687d",
    "EndpointID":
    "f71251f1d3c4d9be09376f687898d22a984017b91f6da6c8fe75fa65dedba007",
    "Gateway": "172.19.0.1",
    "IPAddress": "172.19.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "DNSNames": [
      "c5",

```

```
]
  }
}
}
}
]
  "f5f93155c9e0"
]
```

docker volume

| Command | Description |
|------------------------------------|--|
| <code>docker volume create</code> | Create a volume |
| <code>docker volume inspect</code> | Display detailed information on one or more volumes |
| <code>docker volume ls</code> | List volumes |
| <code>docker volume prune</code> | Remove unused local volumes |
| <code>docker volume rm</code> | Remove one or more volumes |
| <code>docker volume update</code> | Update a volume (cluster volumes only) |

```
debian@debian:~$ docker volume inspect mon_volume
[
  {
    "CreatedAt": "2025-08-16T22:20:19+02:00",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/mon_volume/_data",
    "Name": "mon_volume",
    "Options": null,
    "Scope": "local"
  }
]
```

docker network

| Command | Description |
|--|--|
| <code>docker network connect</code> | Connect a container to a network |
| <code>docker network create</code> | Create a network |
| <code>docker network disconnect</code> | Disconnect a container from a network |
| <code>docker network inspect</code> | Display detailed information on one or more networks |

| Command | Description |
|-----------------------------------|-----------------------------|
| <code>docker network ls</code> | List networks |
| <code>docker network prune</code> | Remove all unused networks |
| <code>docker network rm</code> | Remove one or more networks |

```

debian@debian:~$ docker network inspect reseau2
[
  {
    "Name": "reseau2",
    "Id": "562ad4a6e8b3105f619bd0deb30b89d5aaddde71babd6422ad912ccfa327687d",
    "Created": "2025-08-29T22:34:59.617521484+02:00",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv4": true,
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "172.19.0.0/16",
          "Gateway": "172.19.0.1"
        }
      ]
    },
    "Internal": false,
    "Attachable": false,
    "Ingress": false,
    "ConfigFrom": {
      "Network": ""
    },
    "ConfigOnly": false,
    "Containers": {
      "f5f93155c9e02fc6a56d40b6d1bf5d0f3cd5c73106c72882f8878038398fe158": {
        "Name": "c5",
        "EndpointID": "f71251f1d3c4d9be09376f687898d22a984017b91f6da6c8fe75fa65dedba007",
        "MacAddress": "5a:76:dd:aa:62:15",
        "IPv4Address": "172.19.0.2/16",
        "IPv6Address": ""
      }
    },
    "Options": {},
    "Labels": {}
  }
]

```

docker stats

La commande `docker stats` affiche les informations essentielles des conteneurs actuellement lancés. Par défaut, la commande s'actualise toutes les 2 secondes.

```
debian@debian:~$ docker stats --no-stream
CONTAINER ID   NAME          CPU %     MEM USAGE / LIMIT   MEM %     NET I/O       BLOCK I/O    PIDS
62d44597ccdd   test         0.00%    924KiB / 966.6MiB   0.09%    866B / 126B   0B / 0B     1
f5f93155c9e0   c5          0.00%    916KiB / 966.6MiB   0.09%    3.02kB / 252B 0B / 0B     1
053c40ea4bd0   interesting_lamarr 0.02%    6.875MiB / 966.6MiB 0.71%    0B / 0B       0B / 0B     2
495db35d7ebd   c1          0.00%    456KiB / 966.6MiB   0.05%    2.34kB / 602B 0B / 0B     1
```

docker system

| Command | Description |
|-----------------------------------|--------------------------------------|
| <code>docker system df</code> | Show docker disk usage |
| <code>docker system events</code> | Get real time events from the server |
| <code>docker system info</code> | Display system-wide information |
| <code>docker system prune</code> | Remove unused data |

```
debian@debian:~$ docker system prune
WARNING! This will remove:
 - all stopped containers
 - all networks not used by at least one container
 - all dangling images
 - unused build cache

Are you sure you want to continue? [y/N] y
Deleted Containers:
3b026e3dc434088a22d25729539ce93869c1119423c15bfb269121caa50feab8
65cf1cfa9b76d2174ab4c80f2f45c9e726abd95c343380b55aed60fc07a2ae7f

Total reclaimed space: 76B
debian@debian:~$
```

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