

Terminal



Your Interactive Bash Terminal. A safe place to learn and execute commands.

```
$
$ docker run -l user=12345 -d redis
152b78ca29cc54774ddb80b9d8d9828d0a16c5d3343fbe2eea10eecfb031d25d
$ echo 'user=123461' >> labels && echo 'role=cache' >> labels
$ docker run --label-file=labels -d redis
8fab5c219a5f205a63276eb226a5f05565654265b99b6263a5fc8caa2315e940
$ docker inspect rd
[
  {
    "Id": "5467ab615a1e69b27c71dcb452064bbfa108230734f52d7e72e50c93d8885baa",
    "Created": "2021-03-19T11:42:44.066696076Z",
    "Path": "docker-entrypoint.sh",
    "Args": [
      "redis-server"
    ],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 1694,
      "ExitCode": 0,
      "Error": "",
      "StartedAt": "2021-03-19T11:42:44.512887449Z",
      "FinishedAt": "0001-01-01T00:00:00Z"
    },
    "Image": "sha256:4e8db158f18dc71307f95260e532df39a9b604b51d4e697468e82845c50cfe28",
    "ResolvConfPath": "/var/lib/docker/containers/5467ab615a1e69b27c71dcb452064bbfa108230734f52d7e72e50c93d8885baa/resolv.conf",
    "HostnamePath": "/var/lib/docker/containers/5467ab615a1e69b27c71dcb452064bbfa108230734f52d7e72e50c93d8885baa/hostname",
    "HostsPath": "/var/lib/docker/containers/5467ab615a1e69b27c71dcb452064bbfa108230734f52d7e72e50c93d8885baa/hosts",
    "LogPath": "/var/lib/docker/containers/5467ab615a1e69b27c71dcb452064bbfa108230734f52d7e72e50c93d8885baa/5467ab615a1e69b27c71dcb452064bbfa108230734f52d7e72e50c93d8885baa-json.log",
    "Name": "/rd",
    "RestartCount": 0,
    "Driver": "overlay",
    "Platform": "linux",
    "MountLabel": "",
    "ProcessLabel": "",
    "AppArmorProfile": "",
    "ExecIDs": null,
```

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```
"ProcessLabel": "",
"AppArmorProfile": "",
"ExecIDs": null,
"HostConfig": {
  "Binds": null,
  "ContainerIDFile": "",
  "LogConfig": {
    "Type": "json-file",
    "Config": {}
  },
  "NetworkMode": "default",
  "PortBindings": {},
  "RestartPolicy": {
    "Name": "no",
    "MaximumRetryCount": 0
  },
  "AutoRemove": false,
  "VolumeDriver": "",
  "VolumesFrom": null,
  "CapAdd": null,
  "CapDrop": null,
  "Dns": [],
  "DnsOptions": [],
  "DnsSearch": [],
  "ExtraHosts": null,
  "GroupAdd": null,
  "IpcMode": "shareable",
  "Cgroup": "",
  "Links": null,
  "OomScoreAdj": 0,
  "PidMode": "",
  "Privileged": false,
  "PublishAllPorts": false,
  "ReadonlyRootfs": false,
  "SecurityOpt": null,
  "UTSMode": "",
  "UsernsMode": "",
  "ShmSize": 67108864,
  "Runtime": "runc",
  "ConsoleSize": [
    0,
    0
  ],
}
```

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```
0
],
"Isolation": "",
"CpuShares": 0,
"Memory": 0,
"NanoCpus": 0,
"CgroupParent": "",
"BlkioWeight": 0,
"BlkioWeightDevice": [],
"BlkioDeviceReadBps": null,
"BlkioDeviceWriteBps": null,
"BlkioDeviceReadIOps": null,
"BlkioDeviceWriteIOps": null,
"CpuPeriod": 0,
"CpuQuota": 0,
"CpuRealtimePeriod": 0,
"CpuRealtimeRuntime": 0,
"CpusetCpus": "",
"CpusetMems": "",
"Devices": [],
"DeviceCgroupRules": null,
"DiskQuota": 0,
"KernelMemory": 0,
"MemoryReservation": 0,
"MemorySwap": 0,
"MemorySwappiness": null,
"OomKillDisable": false,
"PidsLimit": 0,
"Ulimits": null,
"CpuCount": 0,
"CpuPercent": 0,
"IOMaximumIOps": 0,
"IOMaximumBandwidth": 0
},
"GraphDriver": {
  "Data": {
    "LowerDir": "/var/lib/docker/overlay/ad63d20004353b8c1a7effe3670956776f288ca2c063cf8c3c29cb5c653f37b2/root",
    "MergedDir": "/var/lib/docker/overlay/26c3257e3b2ad4f0b4d18c6e167cce91dd7abc3201ac60ccf06fa5b79d2a545a/merged",
    "UpperDir": "/var/lib/docker/overlay/26c3257e3b2ad4f0b4d18c6e167cce91dd7abc3201ac60ccf06fa5b79d2a545a/upper",
    "WorkDir": "/var/lib/docker/overlay/26c3257e3b2ad4f0b4d18c6e167cce91dd7abc3201ac60ccf06fa5b79d2a545a/work"
  },
  "Name": "overlay"
},
}
```

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```
"GraphDriver": {
  "Data": {
    "LowerDir": "/var/lib/docker/overlay/ad63d20004353b8c1a7effe3670956776f288ca2c063cf8c3c29cb5c653f37b2/root",
    "MergedDir": "/var/lib/docker/overlay/26c3257e3b2ad4f0b4d18c6e167cce91dd7abc3201ac60ccf06fa5b79d2a545a/merged",
    "UpperDir": "/var/lib/docker/overlay/26c3257e3b2ad4f0b4d18c6e167cce91dd7abc3201ac60ccf06fa5b79d2a545a/upper",
    "WorkDir": "/var/lib/docker/overlay/26c3257e3b2ad4f0b4d18c6e167cce91dd7abc3201ac60ccf06fa5b79d2a545a/work"
  },
  "Name": "overlay"
},
"Mounts": [
  {
    "Type": "volume",
    "Name": "3c4972f774c10ac060db8c6c1b947b970f4bb2164d3eb0ad9fba27f191c3fb76",
    "Source": "/var/lib/docker/volumes/3c4972f774c10ac060db8c6c1b947b970f4bb2164d3eb0ad9fba27f191c3fb76/_data",
    "Destination": "/data",
    "Driver": "local",
    "Mode": "",
    "RW": true,
    "Propagation": ""
  }
],
"Config": {
  "Hostname": "5467ab615a1e",
  "Domainname": "",
  "User": "",
  "AttachStdin": false,
  "AttachStdout": false,
  "AttachStderr": false,
  "ExposedPorts": {
    "6379/tcp": {}
  },
  "Tty": false,
  "OpenStdin": false,
  "StdinOnce": false,
  "Env": [
    "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
    "GOSU_VERSION=1.10",
    "REDIS_VERSION=4.0.11",
    "REDIS_DOWNLOAD_URL=http://download.redis.io/releases/redis-4.0.11.tar.gz",
    "REDIS_DOWNLOAD_SHA=fc53e73ae7586bcdac4b63875d1ff04f68c5474c1ddeda78f00e5ae2eed1bbb"
  ],
  "Cmd": [
    "redis-server"
  ]
}
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"REDIS_DOWNLOAD_URL=http://download.redis.io/releases/redis-4.0.11.tar.gz",
"REDIS_DOWNLOAD_SHA=fc53e73ae7586bcdac4b63875d1ff04f68c5474c1ddeda78f00e5ae2eed1bbb"
],
"Cmd": [
    "redis-server"
],
"ArgsEscaped": true,
"Image": "redis",
"Volumes": {
    "/data": {}
},
"WorkingDir": "/data",
"Entrypoint": [
    "docker-entrypoint.sh"
],
"OnBuild": null,
"Labels": {
    "com.katacoda.created": "automatically",
    "com.katacoda.private-msg": "magic",
    "user": "scrapbook"
}
},
"NetworkSettings": {
    "Bridge": "",
    "SandboxID": "1a82c52d12b1fdd93707b88f21c41353e844b47b628b049a6097e6295796d272",
    "HairpinMode": false,
    "LinkLocalIPv6Address": "",
    "LinkLocalIPv6PrefixLen": 0,
    "Ports": {
        "6379/tcp": null
    },
    "SandboxKey": "/var/run/docker/netns/1a82c52d12b1",
    "SecondaryIPAddresses": null,
    "SecondaryIPv6Addresses": null,
    "EndpointID": "9a1b9987d2b8d5f6a3eb189b7cb919252155255f097ecf1393a03cf44be42678",
    "Gateway": "172.18.0.1",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "IPAddress": "172.18.0.2",
    "IPPrefixLen": 24,
    "IPv6Gateway": "",
    "MacAddress": "02:42:ac:12:00:02",
    "Networks": {
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+
"SandboxKey": "/var/run/docker/netns/1a82c52d12b1",
"SecondaryIPAddresses": null,
"SecondaryIPv6Addresses": null,
"EndpointID": "9a1b9987d2b8d5f6a3eb189b7cb919252155255f097ecf1393a03cf44be42678",
"Gateway": "172.18.0.1",
"GlobalIPv6Address": "",
"GlobalIPv6PrefixLen": 0,
"IPAddress": "172.18.0.2",
"IPPrefixLen": 24,
"IPv6Gateway": "",
"MacAddress": "02:42:ac:12:00:02",
"Networks": {
  "bridge": {
    "IPAMConfig": null,
    "Links": null,
    "Aliases": null,
    "NetworkID": "22ac357b413f3c28e569f6a5760ce2b433d76d6ef74e0acda7f54c69a1fecb08",
    "EndpointID": "9a1b9987d2b8d5f6a3eb189b7cb919252155255f097ecf1393a03cf44be42678",
    "Gateway": "172.18.0.1",
    "IPAddress": "172.18.0.2",
    "IPPrefixLen": 24,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "MacAddress": "02:42:ac:12:00:02",
    "DriverOpts": null
  }
}
}
}
]
$ docker inspect -f "{{json .Config.Labels }}" rd
{"com.katacoda.created":"automatically","com.katacoda.private-msg":"magic","user":"scrapbook"}
$ docker inspect -f "{{json .ContainerConfig.Labels }}" katacoda-label-example
{"com.katacoda.build-date":"2015-07-01T10:47:29Z","com.katacoda.course":"Docker","com.katacoda.private-msg":"HelloWorld","com.katacoda.version":"0.0.5","vendor":"Katacoda"}
$ docker ps --filter "label=user=scrapbook"
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS               NAMES
5467ab615a1e        redis              "docker-entrypoint.s..." About a minute ago   Up About a minute   6379/tcp            rd
$ docker images --filter "label=vendor=Katacoda"
REPOSITORY          TAG                 IMAGE ID             CREATED             SIZE
katacoda-label-example latest              72a246d0298c        About a minute ago  84.1MB
$
```