

Docker コマンド

[[Docker](#)][[仮想化](#)]

- ・ <http://typea.info/blg/glob/2014/08/docker-commands.html>

バージョンの確認 (version)

```
# docker version
Client version: 1.0.0
Client API version: 1.12
Go version (client): go1.2.2
Git commit (client): 63fe64c/1.0.0
Server version: 1.0.0
Server API version: 1.12
Go version (server): go1.2.2
Git commit (server): 63fe64c/1.0.0
```

情報の確認 (info)

```
# docker info
Containers: 1
Images: 3
Storage Driver: devicemapper
Pool Name: docker-253:1-203234686-pool
Data file: /var/lib/docker/devicemapper/devicemapper/data
Metadata file: /var/lib/docker/devicemapper/devicemapper/metadata
Data Space Used: 569.2 Mb
Data Space Total: 102400.0 Mb
Metadata Space Used: 0.9 Mb
Metadata Space Total: 2048.0 Mb
Execution Driver: native-0.2
Kernel Version: 3.10.0-123.el7.x86_64
```

イメージの取得

Docker Registry

- ・ <https://registry.hub.docker.com/>

取得 (pull)

```
# docker pull openshift/wildfly-8-centos
Pulling repository openshift/wildfly-8-centos
f3ba582d4042: Download complete
f3ba582d4042: Pulling image (latest) from openshift/wildfly-8-centos
511136ea3c5a: Download complete
:
7e1fd6711692: Download complete
6244d7d2948c: Download complete
```

確認 (images)

# docker images				
REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL
SIZE				
openshift/wildfly-8-centos	latest	f3ba582d4042	6 days ago	539.3 MB
centos	latest	1a7dc42f78ba	8 days ago	236.4 MB

実行

インタラクティブ実行 (run –t)

- `run –t` でインタラクティブにシェルを実行出来る
- 任意のコマンドをコンテナ内で実行可能
- 停止する場合は、`Ctrl+D`

```
# docker run -i -t -h openshift/wildfly-8-centos openshift/wildfly-8-centos /bin/bash
bash-4.1#
```

バックグラウンド実行 (run –d)

```
# docker run -d openshift/wildfly-8-centos /wildfly/bin/standalone.sh
564e5343046f97da12ba09273020eabbb7a84d4b0299f13c256b43aa449d1bb7
```

プロセスの確認 (ps)

```
# docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED
STATUS             PORTS              NAMES
564e5343046f        openshift/wildfly-8-centos:latest /wildfly/bin/standalone.sh About a minute ago
Up About a minute   7600/tcp, 8080/tcp, 9990/tcp, 9999/tcp   insane_euclid
```

プロセス監視 (top)

```
# docker top 564e5343046f
UID                PID                PPID                C                   STIME
TTY                TIME              CMD
?                  00:00:00          /bin/sh             0                   23:22
root               5739              1401                0                   23:22
?                  00:00:07          java -D[Standalone] -server -XX:+UseSerialGC -Xms40m -Xmx256m
-XX:MaxPermSize=102m -XX:+AggressiveOpts -Dorg.apache.tomcat.util.LOW_MEMORY=true
-DOPENSIFT_APP_UUID= -Djboss.modules.system.pkgs=org.jboss.byteman -Djava.awt.headless=true
-Dorg.jboss.resolver.warning=true -Djava.net.preferIPv4Stack=true -Dfile.encoding=UTF-8
-Djboss.node.name=564_e5343046_f -Djgroups.bind_addr=0.0.0.0 -Dorg.apache.coyote.http11.Http11
Protocol.COMPRESSION=on -Dorg.jboss.boot.log.file=/wildfly/standalone/log/server.log
-Dlogging.configuration=file:/wildfly/standalone/configuration/logging.properties -jar
/wildfly/jboss-modules.jar -mp /wildfly/provided_m
```

コンテナの停止 (stop)

```
# docker stop 564e5343046f
564e5343046f
```

コンテナの強制終了 (kill)

```
# docker kill faff5b7c7492
faff5b7c7492
```

コンテナの再起動 (restart)

```
# docker restart 564e5343046f
564e5343046f
```

イメージの管理

イメージの削除 (rmi)

```
# docker images
REPOSITORY          TAG                IMAGE ID            CREATED             VIRTUAL
SIZE
```

openshift/wildfly-8-centos	latest	f3ba582d4042	3 weeks ago	539.3 MB
<none>	<none>	1a7dc42f78ba	3 weeks ago	236.4 MB

docker rmi -f 1a7dc42f78ba
Deleted: 1a7dc42f78ba213ec1ac5cd04930011334536214ad26c8000f1eec72e302c041

コンテナ状態の確認 (inspect)

```
# docker inspect faff5b7c7492
[{"Args": [],
  "Config": {
    "AttachStderr": false,
    "AttachStdin": false,
    "AttachStdout": false,
    "Cmd": [
      "/wildfly/bin/standalone.sh"
    ],
    "CpuShares": 0,
    "Cpuset": "",
    "Domainname": "",
    "Entrypoint": null,
    "Env": [
      "HOME=/",
      "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
      "STI_SCRIPTS_URL=https://raw.githubusercontent.com/openshift/wildfly-8-centos/master/.sti/bin"
    ],
    "ExposedPorts": {
      "7600/tcp": {},
      "8080/tcp": {},
      "9990/tcp": {},
      "9999/tcp": {}
    },
    "Hostname": "faff5b7c7492",
    "Image": "openshift/wildfly-8-centos",
    "Memory": 0,
    "MemorySwap": 0,
    "NetworkDisabled": false,
    "OnBuild": null,
    "OpenStdin": false,
    "PortSpecs": null,
    "StdinOnce": false,
    "Tty": false,
    "User": "",
    "Volumes": null,
    "WorkingDir": "/opt/wildfly/source"
  },
  "Created": "2014-08-03T14:37:58.975398521Z",
  "Driver": "devicemapper",
  "ExecDriver": "native-0.2",
  "HostConfig": {
    "Binds": null,
    "ContainerIDFile": "",
    "Dns": null,
    "DnsSearch": null,
    "Links": null,
    "LxcConf": [],
    "NetworkMode": "bridge",
    "PortBindings": {
      "7600/tcp": null,
      "8080/tcp": null,
      "9990/tcp": null,
      "9999/tcp": null
    },
    "Privileged": false,
    "PublishAllPorts": false,
    "VolumesFrom": null
  },
  "HostnamePath": "/var/lib/docker/containers/faff5b7c749257ff79180b5c9b90e3cadabec91a76895c086ec4e66fd84b3733/hostname",
  "HostsPath": "/var/lib/docker/containers/faff5b7c749257ff79180b5c9b90e3cadabec91a76895c086ec4e66fd84b3733/hosts",
  "Id": "faff5b7c749257ff79180b5c9b90e3cadabec91a76895c086ec4e66fd84b3733",
  "Image": "f3ba582d4042e5e506e787e102bd122617cf4d574a32ff75ec5c5606aa60c4f0",
  "MountLabel": "system_u:object_r:svirt_sandbox_file_t:s0:c219,c329",
  "Name": "/compassionate_babbage",
  "NetworkSettings": {
    "Bridge": "docker0",
    "Gateway": "172.17.42.1",
```

```

    "IPAddress": "172.17.0.3",
    "IPPrefixLen": 16,
    "PortMapping": null,
    "Ports": {
      "7600/tcp": null,
      "8080/tcp": null,
      "9990/tcp": null,
      "9999/tcp": null
    }
  },
  "Path": "/wildfly/bin/standalone.sh",
  "ProcessLabel": "system_u:system_r:svirt_lxc_net_t:s0:c219,c329",
  "ResolvConfPath": "/etc/resolv.conf",
  "State": {
    "ExitCode": 0,
    "FinishedAt": "2014-08-19T13:58:30.659032186Z",
    "Paused": false,
    "Pid": 3503,
    "Running": true,
    "StartedAt": "2014-08-19T14:00:08.994894748Z"
  },
  "Volumes": {},
  "VolumesRW": {}
}
]

```