

Name : Madhavi Suratkar

Topic : Docker Basic Command

Date : 21-04-2023

```
Command Prompt
C:\Users\surat>docker -v
Docker version 20.10.24, build 297e128
C:\Users\surat>
```

```
Windows PowerShell
PS C:\Users\surat> docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:4e83453afed1b4fala3500525091dbfca6ce1e66903fd4c01ff015dbcb1ba33e
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

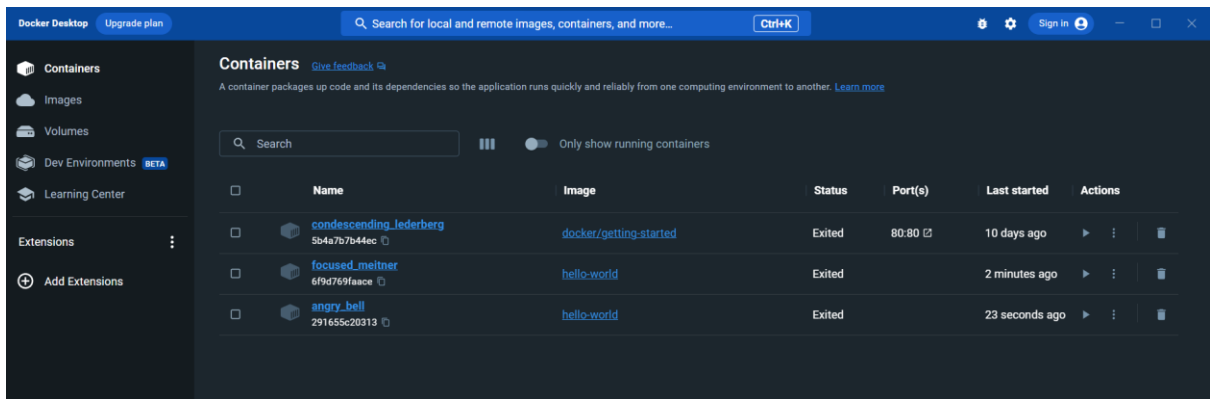
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

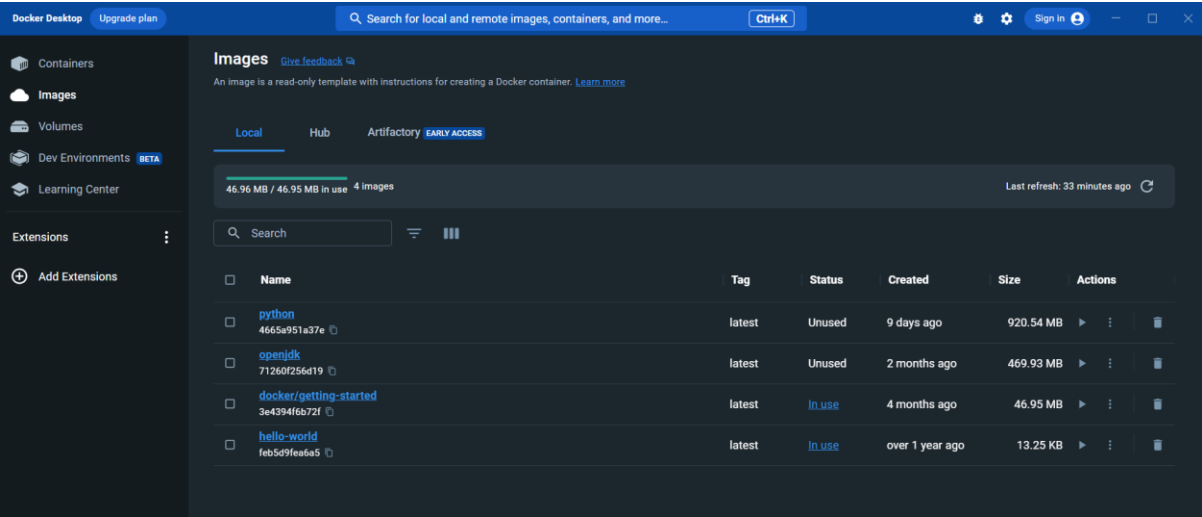
For more examples and ideas, visit:
https://docs.docker.com/get-started/
PS C:\Users\surat>
```

```
PS C:\Users\surat> docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
docker/getting-started latest       3e4394f6b72f     3 months ago    47MB
hello-world         latest       feb5d9fea6a5     19 months ago   13.3kB
PS C:\Users\surat>
```



```
PS C:\Users\surat> docker pull openjdk
Using default tag: latest
latest: Pulling from library/openjdk
197c1adcd755: Pull complete
57b698b7af4b: Pull complete
95a27dbe0150: Pull complete
Digest: sha256:9b448de897d211c9e0ec635a485650aed6e28d4eca1efbc34940560a480b3f1f
Status: Downloaded newer image for openjdk:latest
docker.io/library/openjdk:latest
PS C:\Users\surat> docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
openjdk              latest          71260f256d19   2 months ago   470MB
docker/getting-started latest          3e4394f6b72f   3 months ago   47MB
hello-world          latest          feb5d9fea6a5   19 months ago  13.3kB
PS C:\Users\surat> |
```

```
PS C:\Users\surat> docker pull python
Using default tag: latest
latest: Pulling from library/python
b0248cf3e63c: Pull complete
127e97b4daf7: Pull complete
0336c50c9f69: Pull complete
1b89f3c7f7da: Pull complete
2d6277217976: Pull complete
273fcda609d8: Pull complete
58568d3a3a00: Pull complete
56fc9fb54f6e: Pull complete
8a22f29afe36: Pull complete
Digest: sha256:f7382f4f9dbc51183c72d621b9c196c1565f713a1fe40c119d215c961fa22815
Status: Downloaded newer image for python:latest
docker.io/library/python:latest
PS C:\Users\surat> docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
python              latest          4665a951a37e   9 days ago     921MB
openjdk              latest          71260f256d19   2 months ago   470MB
docker/getting-started latest          3e4394f6b72f   3 months ago   47MB
hello-world          latest          feb5d9fea6a5   19 months ago  13.3kB
PS C:\Users\surat> |
```



```
PS C:\Users\surat> docker run python
PS C:\Users\surat> docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
PS C:\Users\surat> docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
47909eab2678   python    "python3"   35 seconds ago   Exited (0) 32 seconds ago   zen_joliot
291655c20313   hello-world    "/hello"   11 minutes ago   Exited (0) 11 minutes ago   angry_bell
6f9d769faace   hello-world    "/hello"   13 minutes ago   Exited (0) 13 minutes ago   focused_meitner
5b4a7b7b44ec   docker/getting-started    "/docker-entrypoint..."   10 days ago   Exited (0) 10 days ago   condescending_lederberg
PS C:\Users\surat> docker run --name pythonContainer -d 4665a951a37e
9ab3bc81dced946e7285148b32c41a67cd859ebbe6e4ce45b4f668c536f8171c
PS C:\Users\surat> docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
PS C:\Users\surat> docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
9ab3bc81dced   4665a951a37e    "python3"   About a minute ago   Exited (0) About a minute ago   pythonContainer
47909eab2678   python    "python3"   4 minutes ago   Exited (0) 4 minutes ago   zen_joliot
291655c20313   hello-world    "/hello"   15 minutes ago   Exited (0) 15 minutes ago   angry_bell
6f9d769faace   hello-world    "/hello"   17 minutes ago   Exited (0) 17 minutes ago   focused_meitner
5b4a7b7b44ec   docker/getting-started    "/docker-entrypoint..."   10 days ago   Exited (0) 10 days ago   condescending_lederberg
PS C:\Users\surat> |
```

```
PS C:\Users\surat> docker run --name pythonContainer1 -it -d python
eb46ecf84cf74562522f54ef7fa0cadf5e19833e82e8b83dc24311f421a8e3f6
PS C:\Users\surat> docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
eb46ecf84cf7   python    "python3"   6 seconds ago   Up 5 seconds   pythonContainer1
PS C:\Users\surat> |
```

```
Windows PowerShell
PS C:\Users\surat> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS          NAMES
eb46ecf84cf7   python   "python3"               About a minute ago Up About a minute          pythonContainer1
PS C:\Users\surat> docker exec -it eb46ecf84cf7 python3
Python 3.11.3 (main, Apr 12 2023, 14:31:14) [GCC 10.2.1 20210110] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> print(" InfobellIT ")
InfobellIT
>>> class Test:
...     pass
...     File "<stdin>", line 2
...         pass
...         ^
IndentationError: expected an indented block after class definition on line 1
>>> class Test:
...     pass
...
>>> ob=Test()
>>> print(ob)
<__main__.Test object at 0x7f1a8c6f95d0>
>>> help(str)
Help on class str in module builtins:

class str(object)
| str(object='') -> str
| str(bytes_or_buffer[, encoding[, errors]]) -> str
|
| Create a new string object from the given object. If encoding or
| errors is specified, then the object must expose a data buffer
| that will be decoded using the given encoding and error handler.
| Otherwise, returns the result of object.__str__() (if defined)
| or repr(object).
| encoding defaults to sys.getdefaultencoding().
| errors defaults to 'strict'.
|
| Methods defined here:
|
| __add__(self, value, /)
|     Return self+value.
```

```
class str(object)
| str(object='') -> str
| str(bytes_or_buffer[, encoding[, errors]]) -> str
|
| Create a new string object from the given object. If encoding or
| errors is specified, then the object must expose a data buffer
| that will be decoded using the given encoding and error handler.
| Otherwise, returns the result of object.__str__() (if defined)
| or repr(object).
| encoding defaults to sys.getdefaultencoding().
| errors defaults to 'strict'.
|
| Methods defined here:
|
| __add__(self, value, /)
|     Return self+value.
|
| __contains__(self, key, /)
|     Return key in self.
|
| __eq__(self, value, /)
|     Return self==value.
|
| __format__(self, format_spec, /)
|     Return a formatted version of the string as described by format_spec.
|
| __ge__(self, value, /)
|     Return self>=value.
|
| __getattr__(self, name, /)
|     Return getattr(self, name).
|
| __getitem__(self, key, /)
|     Return self[key].
|
| __getnewargs__(...)
|
--More--
```

```

PS C:\Users\surat> docker inspect eb46ecf84cf7
[
  {
    "Id": "eb46ecf84cf74562522f54ef7fa0cadf5e19833e82e8b83dc24311f421a8e3f6",
    "Created": "2023-04-21T13:32:19.762560385Z",
    "Path": "python3",
    "Args": [],
    "State": {
      "Status": "running",
      "Running": true,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 4238,
      "ExitCode": 0,
      "Error": "",
      "StartedAt": "2023-04-21T13:32:20.366186093Z",
      "FinishedAt": "0001-01-01T00:00:00Z"
    },
    "Image": "sha256:4665a951a37e87c8baf10af65f84973e35de96b9b7263b270f49f5644463c2fe",
    "ResolvConfPath": "/var/lib/docker/containers/eb46ecf84cf74562522f54ef7fa0cadf5e19833e82e8b83dc24311f421a8e3f6/resolv.conf",
    "HostnamePath": "/var/lib/docker/containers/eb46ecf84cf74562522f54ef7fa0cadf5e19833e82e8b83dc24311f421a8e3f6/hostname",
    "HostsPath": "/var/lib/docker/containers/eb46ecf84cf74562522f54ef7fa0cadf5e19833e82e8b83dc24311f421a8e3f6/hosts",
    "LogPath": "/var/lib/docker/containers/eb46ecf84cf74562522f54ef7fa0cadf5e19833e82e8b83dc24311f421a8e3f6/eb46ecf84cf74562522f54ef7fa0cadf5e19833e82e8b83dc24311f421a8e3f6-json.log",
    "Name": "/pythonContainer1",
    "RestartCount": 0,
    "Driver": "overlay2",
    "Platform": "linux",
    "MountLabel": "",
    "ProcessLabel": "",
    "AppArmorProfile": "",
    "ExecIDs": null,
    "HostConfig": {
      "Binds": null,
      "ContainerIDFile": "",
      "LogConfig": {

```

```

Windows PowerShell
PS C:\Users\surat> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
eb46ecf84cf7   python    "python3"               6 minutes ago Up 6 minutes          pythonContainer1
PS C:\Users\surat> docker stop pythonContainer1
pythonContainer1
PS C:\Users\surat> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
PS C:\Users\surat> |

```

```

Windows PowerShell
PS C:\Users\surat> docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
eb46ecf84cf7   python    "python3"               7 minutes ago Exited (137) About a minute ago          pythonContainer1
9ab3bc81dced   4665a951a37e "python3"               11 minutes ago Exited (0) 11 minutes ago          pythonContainer
47909eab2678   python    "python3"               14 minutes ago Exited (0) 14 minutes ago          zen_joliot
291655c20313   hello-world "/hello"                25 minutes ago Exited (0) 25 minutes ago          angry_bell
6f9d769faace   hello-world "/hello"                27 minutes ago Exited (0) 27 minutes ago          focused_meitner
5b4a7b7b44ec   docker/getting-started "/docker-entrypoint..." 10 days ago    Exited (0) 10 days ago          condescending_lederberg
9ab3bc81dced
PS C:\Users\surat> docker rm 9ab3bc81dced
9ab3bc81dced
PS C:\Users\surat> docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
eb46ecf84cf7   python    "python3"               8 minutes ago Exited (137) About a minute ago          pythonContainer1
47909eab2678   python    "python3"               14 minutes ago Exited (0) 14 minutes ago          zen_joliot
291655c20313   hello-world "/hello"                25 minutes ago Exited (0) 25 minutes ago          angry_bell
6f9d769faace   hello-world "/hello"                27 minutes ago Exited (0) 27 minutes ago          focused_meitner
5b4a7b7b44ec   docker/getting-started "/docker-entrypoint..." 10 days ago    Exited (0) 10 days ago          condescending_lederberg
PS C:\Users\surat> |

```