

```
ubuntu $ mkdir composeapp
ubuntu $ cd composeapp/
ubuntu $ nano app.py
ubuntu $
ubuntu $ nano app.py
ubuntu $ nano app.py
ubuntu $ nano requirements.txt
ubuntu $ nano Dockerfile
ubuntu $ sudo docker build -t marinoj/composeapp .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
```

Install the buildx component to build images with BuildKit:
<https://docs.docker.com/go/buildx/>

```
Sending build context to Docker daemon 4.096kB
Error response from daemon: dockerfile parse error on line 5: ADD requires at least two arguments, but only one was provided. Destination could not be determined
```

```
ubuntu $ nano Dockerfile
ubuntu $ sudo docker build -t marinoj/composeapp .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
```

Install the buildx component to build images with BuildKit:
<https://docs.docker.com/go/buildx/>

```
Sending build context to Docker daemon 4.096kB
```

```
Step 1/6 : FROM python:2.7
```

```
2.7: Pulling from library/python
```

```
7e2b2a5af8f6: Pull complete
```

```
09b6f03ffac4: Pull complete
```

```
dc3f0c679f0f: Pull complete
```

```
fd4b47407fc3: Pull complete
```

```
b32f6bf7d96d: Pull complete
```

```
6f4489a7e4cf: Pull complete
```

```
af4b99ad9ef0: Pull complete
```

```
39db0bc48c26: Pull complete
```

```
acb4a89489fc: Pull complete
```

```
Digest: sha256:cfa62318c459b1fde9e0841c619906d15ada5910d625176e24bf692cf8a2601d
```

```
Status: Downloaded newer image for python:2.7
```

```
---> 68e7be49c28c
```

```
Step 2/6 : LABEL maintainer mj@example.com
```

```
---> Running in 61ebd812f7cb
```

```
-tRemoving intermediate container 61ebd812f7cb
```

```
---> cfe3dd938ed2
```

```
Step 3/6 : ENV REFRESHED_AT 2024-03-15
```

```
---> Running in a9662583c19b
```

```
Removing intermediate container a9662583c19b
```

```
---> e883daf12db1
```

```
Step 4/6 : ADD . /composeapp
```

```
---> ce6e44fb9751
```

```
Step 5/6 : WORKDIR ./composeapp
```

```
Step 5/6 : WORKDIR ./composeapp
--> Running in 64f58a7ac93d
Removing intermediate container 64f58a7ac93d
--> e29c8fcc100e
Step 6/6 : RUN pip install -r requirements.txt
--> Running in 11897f613fa2
marinDEPRECATION: Python 2.7 reached the end of its life on January 1st, 2020. Please upgrade your Python as Python 2.7 is no longer maintained. A future version of pip will drop support for Python 2.7. More details about Python 2 support in pip, can be found at https://pip.pypa.io/en/latest/development/release-process/#python-2-support
Collecting flask
  Downloading Flask-1.1.4-py2.py3-none-any.whl (94 kB)
Collecting redis
  Downloading redis-3.5.3-py2.py3-none-any.whl (72 kB)
Collecting click<8.0,>=5.1
  Downloading click-7.1.2-py2.py3-none-any.whl (82 kB)
Collecting Werkzeug<2.0,>=0.15
  Downloading Werkzeug-1.0.1-py2.py3-none-any.whl (298 kB)
Collecting Jinja2<3.0,>=2.10.1
  Downloading Jinja2-2.11.3-py2.py3-none-any.whl (125 kB)
Collecting itsdangerous<2.0,>=0.24
  Downloading itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)
Collecting MarkupSafe>=0.23
  Downloading MarkupSafe-1.1.1-cp27-cp27mu-manylinux1_x86_64.whl (24 kB)
Installing collected packages: click, Werkzeug, MarkupSafe, Jinja2, itsdangerous, flask, redis
Successfully installed Jinja2-2.11.3 MarkupSafe-1.1.1 Werkzeug-1.0.1 click-7.1.2 flask-1.1.4 itsdangerous-1.1.0 redis-3.5.3
/WARNING: You are using pip version 20.0.2; however, version 20.3.4 is available
.
You should consider upgrading via the '/usr/local/bin/python -m pip install --upgrade pip' command.
ccimRemoving intermediate container 11897f613fa2
--> 7c2fa3ff255f
Successfully built 7c2fa3ff255f
Successfully tagged marinoj/composeapp:latest
ubuntu $ sudo docker build -t marino/composeapp
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.

            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

"docker build" requires exactly 1 argument.
See 'docker build --help'.

Usage:  docker build [OPTIONS] PATH | URL | -

Build an image from a Dockerfile
```

```
ubuntu $ sudo docker build -t marino/composeapp .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.

                Install the buildx component to build images with BuildKit:
                https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  4.096kB
Step 1/6 : FROM python:2.7
--> 68e7be49c28c
Step 2/6 : LABEL maintainer mj@example.com
--> Using cache
--> cfe3dd938ed2
Step 3/6 : ENV REFRESHED_AT 2024-03-15
--> Using cache
--> e883daf12db1
Step 4/6 : ADD . /composeapp
--> Using cache
--> ce6e44fb9751
Step 5/6 : WORKDIR ./composeapp
--> Using cache
--> e29c8fcc100e
Step 6/6 : RUN pip install -r requirements.txt
--> Using cache
--> 7c2fa3ff255f
Successfully built 7c2fa3ff255f
Successfully tagged marino/composeapp:latest
ubuntu $
```



```

ubuntu $ sudo docker-compose up
Recreating composeapp_web_1 ... done
Starting composeapp_redis_1 ... done
Attaching to composeapp_redis_1, composeapp_web_1
redis_1 | 1:C 15 Mar 2024 09:49:50.129 # WARNING Memory overcommit must be enabled! Without it, a background save or replication may fail under low memory condition. Being disabled, it can also cause failures without low memory condition, see https://github.com/jemalloc/jemalloc/issues/1328. To fix this issue add 'vm.overcommit_memory = 1' to /etc/sysctl.conf and then reboot or run the command 'sysctl vm.overcommit_memory=1' for this to take effect.
redis_1 | 1:C 15 Mar 2024 09:49:50.129 * oOoCoOoCoOoCo Redis is starting oOoCoOoCoOoCo
redis_1 | 1:C 15 Mar 2024 09:49:50.129 * Redis version=7.2.4, bits=64, commit=0000000, modified=0, pid=1, just started
redis_1 | 1:C 15 Mar 2024 09:49:50.129 # Warning: no config file specified, using the default config. In order to specify a config file use redis-server /path/to/redis.conf
redis_1 | 1:M 15 Mar 2024 09:49:50.129 * monotonic clock: POSIX clock_gettime
redis_1 | 1:M 15 Mar 2024 09:49:50.130 * Running mode=standalone, port=6379.
redis_1 | 1:M 15 Mar 2024 09:49:50.135 * Server initialized
redis_1 | 1:M 15 Mar 2024 09:49:50.135 * Loading RDB produced by version 7.2.4
redis_1 | 1:M 15 Mar 2024 09:49:50.135 * RDB age 39 seconds
redis_1 | 1:M 15 Mar 2024 09:49:50.135 * RDB memory usage when created 0.83 Mb
redis_1 | 1:M 15 Mar 2024 09:49:50.135 * Done loading RDB, keys loaded: 0, keys expired: 0.
redis_1 | 1:M 15 Mar 2024 09:49:50.135 * DB loaded from disk: 0.000 seconds
redis_1 | 1:M 15 Mar 2024 09:49:50.135 * Ready to accept connections tcp
web_1 | * Serving Flask app "app" (lazy loading)
web_1 | * Environment: production
web_1 | WARNING: This is a development server. Do not use it in a production deployment.
web_1 | Use a production WSGI server instead.
web_1 | * Debug mode: on
web_1 | * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
web_1 | * Restarting with stat
web_1 | * Debugger is active!
web_1 | * Debugger PIN: 305-424-566

```

```

ubuntu $ sudo docker-compose up -d
Starting composeapp_redis_1 ... done
Starting composeapp_web_1 ... done
ubuntu $

```

```

ubuntu $ curl localhost:5000
Hello Docker book reader! I have been seen 1 timesubuntu $ curl localhost:5000
Hello Docker book reader! I have been seen 2 timesubuntu $ curl localhost:5000
Hello Docker book reader! I have been seen 3 timesubuntu $ curl localhost:5000
Hello Docker book reader! I have been seen 4 timesubuntu $ curl localhost:5000
Hello Docker book reader! I have been seen 5 timesubuntu $ curl localhost:5000
Hello Docker book reader! I have been seen 6 timesubuntu $ curl localhost:5000
Hello Docker book reader! I have been seen 7 timesubuntu $

```

```
ubuntu $ docker-compose ps
```

Name	Command	State	Ports
composeapp_redis_1	docker-entrypoint.sh redis ...	Up	6379/tcp
composeapp_web_1	python app.py	Up	0.0.0.0:5000->5000/tcp, :5000->5000/tcp

```
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```

```
ubuntu $ docker-compose stop
Stopping composeapp_web_1 ... done
Stopping composeapp_redis_1 ... done
ubuntu $
```

```
ubuntu $ docker-compose ps
```

Name	Command	State	Ports
composeapp_redis_1	docker-entrypoint.sh redis ...	Exit 0	
composeapp_web_1	python app.py	Exit 0	

```
ubuntu $
```

```
ubuntu $ docker-compose rm
Going to remove composeapp_web_1, composeapp_redis_1
Are you sure? [yN] y
Removing composeapp_web_1 ... done
Removing composeapp_redis_1 ... done
ubuntu $ docker-compose ps
Name Command State Ports
-----
ubuntu $
```