

CICD Experiment-14

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Deploy Static HTML Website as Container

Step 2 of 3

Build our static HTML image using the build command below.

```
docker build -t webserver-image:v1 .
```

You can view a list of all the images on the host using `docker images`.

The built image will have the name `webserver-image` with a tag of `v1`.

CONTINUE

```
Dockerfile
1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3
```

```
Terminal
docker:80
Your Interactive Bash Terminal. A safe place to learn and execute commands.
$
$ docker build -t webserver-image:v1 .
Sending build context to Docker daemon 3.072kB
Step 1/2 : FROM nginx:alpine
--> 98ab35023fd6
Step 2/2 : COPY . /usr/share/nginx/html
--> 8d19595b600e
Successfully built 8d19595b600e
Successfully tagged webserver-image:v1
$
```

Deploy Static HTML Website as Container

Step 2 of 3

Build our static HTML image using the build command below.

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```

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CONTINUE

```
Dockerfile
1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3
```

```
Terminal
docker:80
Successfully built 8d19595b600e
Successfully tagged webserver-image:v1
$ docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
webserver-image      v1              8d19595b600e   32 seconds ago 22.3MB
nginx                alpine          98ab35023fd6   6 days ago     22.3MB
ubuntu              latest          16508e5c265d   2 years ago    84.1MB
redis                latest          4e8db158f18d   2 years ago    83.4MB
weaveworks/scope    1.9.1           4b07159e407b   2 years ago    68MB
alpine               latest          11cd0b38bc3c   2 years ago    4.41MB
$
```

Activities Firefox Web Browser Dec 1 11:57

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Deploy Static HTML Website as Container

Step 3 of 3

Task

Launch our newly built image providing the friendly name and tag. As it's a web server, bind port 80 to our host using the `-p` parameter.

```
docker run -d -p 80:80 webserver-image:v1
```

Once started, you'll be able to access the results of port 80 via `curl docker`

To render the requests in the browser use the following links

<https://2886795284-80-elsy05.environments.katacoda.com/>

You now have a static HTML website being served

Dockerfile index.html

1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3

Terminal docker:80

weaveworks/scope 1.9.1 4b07159e407b 2 years ago 68MB
alpine latest 11cd0b38bc3c 2 years ago 4.41MB
\$ docker run -d -p 80:80 webserver-image:v1
docker run -d -p 80:80 webserver-image:v1
b46d2ec0127936166d57ce1cefbfcad031942c5cd453f1a09800ee078b1abf8f
\$ docker run -d -p 80:80 webserver-image:v1
c108e8bf476dc9fd7967164f5081578e62a5b3aee50ce50a668440f50641ad5
docker: Error response from daemon: driver failed programming external connectivity on endpoint jovial_hodgkin (140b2f5fa767ede5fec4d135df829594c5da0631f8a131a8ba0befac202d11da): Bind for 0.0.0.0:80 failed: port is already allocated.
\$

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Deploy Static HTML Website as Container

Step 3 of 3

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```
docker run -d -p 80:80 webserver-image:v1
```

Once started, you'll be able to access the results of port 80 via `curl docker`

To render the requests in the browser use the following links

<https://2886795284-80-elsy05.environments.katacoda.com/>

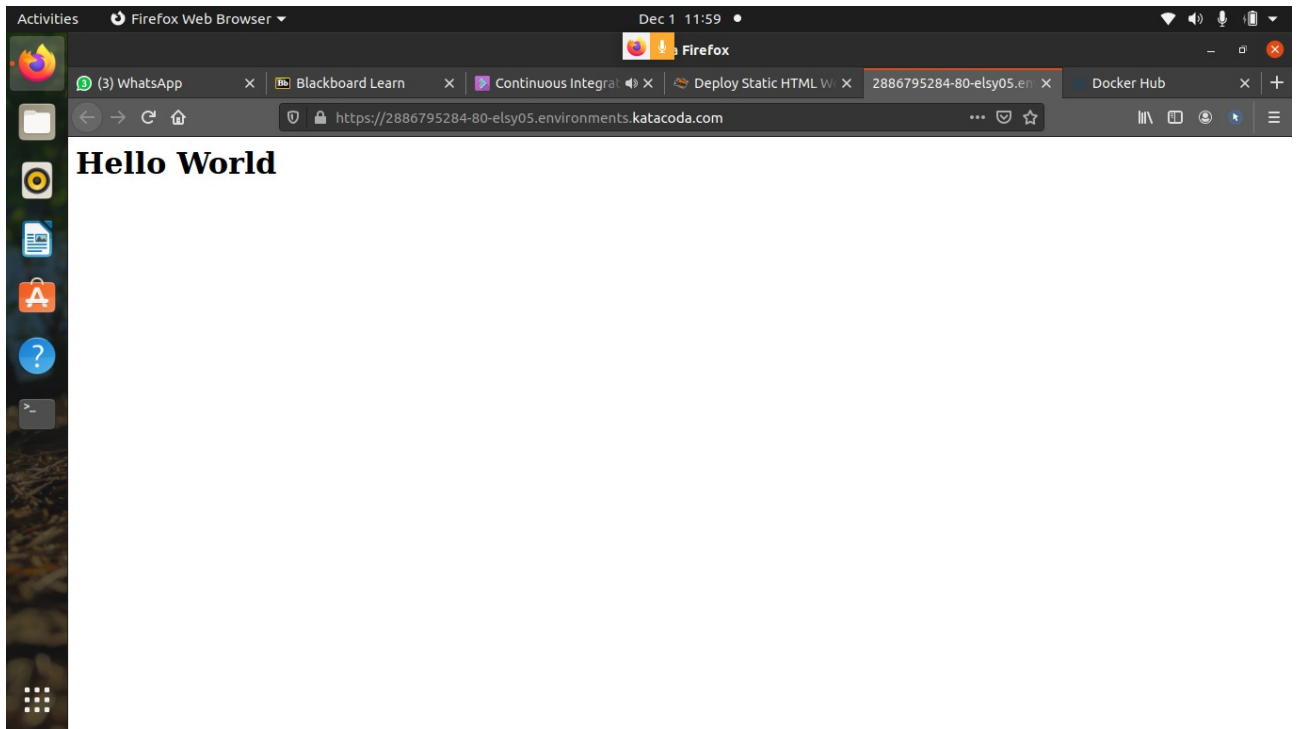
You now have a static HTML website being served

Dockerfile index.html

1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3

Terminal docker:80

\$ docker run -d -p 80:80 webserver-image:v1
docker run -d -p 80:80 webserver-image:v1
b46d2ec0127936166d57ce1cefbfcad031942c5cd453f1a09800ee078b1abf8f
\$ docker run -d -p 80:80 webserver-image:v1
c108e8bf476dc9fd7967164f5081578e62a5b3aee50ce50a668440f50641ad5
docker: Error response from daemon: driver failed programming external connectivity on endpoint jovial_hodgkin (140b2f5fa767ede5fec4d135df829594c5da0631f8a131a8ba0befac202d11da): Bind for 0.0.0.0:80 failed: port is already allocated.
\$ curl docker
<h1>Hello World</h1>
\$



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Deploy Static HTML Website as Container

Task Step 3 of 3

Launch our newly built image providing the friendly name and tag. As it's a web server, bind port 80 to our host using the `-p` parameter.

```
docker run -d -p 80:80 webserver-image:v1
```

Once started, you'll be able to access the results of port 80 via `curl docker` ✓

To render the requests in the browser use the following links

<https://2886795284-80-elsy05.environments.katacoda.com/>

You now have a static HTML website being served by nginx

Dockerfile index.html

1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3

Terminal docker:80 +

Password:
Login Succeeded
\$ docker tag docker run -d -p 80:80 webserver-image:v1
"docker tag" requires exactly 2 arguments.
See 'docker tag --help'.

Usage: docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

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Deploy Static HTML Website as Container

Task Step 3 of 3

Launch our newly built image providing the friendly name and tag. As it's a web server, bind port 80 to our host using the `-p` parameter.

```
docker run -d -p 80:80 webserver-image:v1
```

Once started, you'll be able to access the results of port 80 via `curl docker` ✓

To render the requests in the browser use the following links

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You now have a static HTML website being served by nginx

Dockerfile index.html

1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3

Terminal docker:80 +

\$ docker tag docker run -d -p 80:80 webserver-image:v1
"docker tag" requires exactly 2 arguments.
See 'docker tag --help'.

Usage: docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]

Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
\$ docker tag webserver-image:v1 ishitabansal/web
\$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
webserver-image v1 8d19595b600e 7 minutes ago 22.3MB
ishitabansal/web latest 8d19595b600e 7 minutes ago 22.3MB
nginx alpine 98ab35023fd6 6 days ago 22.3MB
ubuntu latest 16508e5c265d 2 years ago 84.1MB
redis latest 4e8db158f18d 2 years ago 83.4MB
weaveworks/scope 1.9.1 4b07159e407b 2 years ago 68MB
alpine latest 11cd0b38bc3c 2 years ago 4.41MB

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Deploy Static HTML Website as Container

Task Step 3 of 3

Launch our newly built image providing the friendly name and tag. As it's a web server, bind port 80 to our host using the `-p` parameter.

```
docker run -d -p 80:80 webserver-image:v1
```

Once started, you'll be able to access the results of port 80 via `curl docker` ✓

To render the requests in the browser use the following links

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You now have a static HTML website being served by Nginx

Dockerfile index.html x

1 FROM nginx:alpine
2 COPY . /usr/share/nginx/html
3

Terminal docker:80 +

webserver-image v1 8d19595b600e 7 minutes ago 22.3MB
ishitabansal/web latest 8d19595b600e 7 minutes ago 22.3MB
nginx alpine 98ab35023fd6 6 days ago 22.3MB
ubuntu latest 16508e5c265d 2 years ago 84.1MB
redis latest 4e8db158f18d 2 years ago 83.4MB
weaveworks/scope 1.9.1 4b07159e407b 2 years ago 68MB
alpine latest 11cd0b38bc3c 2 years ago 4.41MB
\$ docker push ishitabansal/web
The push refers to repository [docker.io/ishitabansal/web]
d15ea60df029: Pushed
468af79aab10: Mounted from library/nginx
fbf82c12d86e: Mounted from library/nginx
4dc20fbc0e8d: Mounted from library/nginx
b831cc3ae47e: Mounted from library/nginx
ace0eda3e3be: Mounted from library/nginx
latest: digest: sha256:1f3cb12503b23c719b7d8ccce1c58c951240ff0388317f6251f2a63453e0c4fd size : 1567

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Docker Mozilla Firefox

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https://hub.docker.com

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Deploy Static HTML Website as Container

Step 1 of 3

Task

Create your *Dockerfile* for building your image by copying the contents below into the editor.

```
FROM nginx:alpine
COPY . /usr/share/nginx/html
```

Copy to Editor

The first line defines our base image. The second line copies the content of the current directory into a particular location inside the container.

CONTINUE

Dockerfile

```
1 # This is your Editor pane. Write the Dockerfile here and
2 # use the command line to execute commands
3
```

Terminal

docker:80

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

```
$
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
nginx                alpine             98ab35023fd6       6 days ago         22.3MB
ubuntu              latest             16508e5c265d       2 years ago        84.1MB
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alpine               latest             11cd0b38bc3c       2 years ago        4.41MB
$
```

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CONTINUE

Dockerfile

```
1 # This is your Editor pane. Write the Dockerfile here and
2 # use the command line to execute commands
3
```

Terminal

docker:80

```
latest: Pulling from ishitabansal/web
188c0c94c7c5: Already exists
617561f33ec6: Already exists
7d856acdaa9c: Already exists
a0d3c6e28e6d: Already exists
af69a9b963c8: Already exists
c40dceaae036: Pull complete
Digest: sha256:1f3cb12503b23c719b7d8ccce1c58c951240ff0388317f6251f2a63453e0c4fd
Status: Downloaded newer image for ishitabansal/web:latest
57b92526a69e79de47df41df0aa6fb2b28ae79ca2d2e1100bcda3ed81ed38674
$
```

Activities

Firefox Web Browser

Dec 1 12:08

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Deploy Static HTML Website as Container

Step 1 of 3 >

Task

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COPY . /usr/share/nginx/html

Copy to Editor

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CONTINUE

Dockerfile

1 # This is your Editor pane. Write the Dockerfile here and
2 # use the command line to execute commands
3

Terminal docker:80 +

617561f33ec6: Already exists
7d856acdaa9c: Already exists
a0d3c6e28e6d: Already exists
af69a9b963c8: Already exists
c40dceaae036: Pull complete
Digest: sha256:1f3cb12503b23c719b7d8ccce1c58c951240ff0388317f6251f2a63453e0c4fd
Status: Downloaded newer image for ishitabansal/web:latest
57b92526a69e79de47df41df0aa6fb2b28ae79ca2d2e1100bcda3ed81ed38674
\$ curl docker
<h1>Hello World</h1>
\$