

To create an NGINX container with the default web site, run the following command:

```
docker run -p 8080:80 nginx
```

This command will download the `nginx` image (if it hasn't already been downloaded) and create a container exposing port 80 in the container to port 8080 on the host machine. You can then open <http://localhost:8080/index.html> to view the default "Welcome to nginx!" web site.

To allow the NGINX container to expose custom web assets, you can mount a local directory inside the Docker container.

Save the following HTML code to a file called `index.html`:

```
<html>
  <body>
    Hello from Octopus!
  </body>
</html>
```

Creating custom images based on NGINX

To create your own Docker image, save the following text to a file called `Dockerfile`:

```
FROM nginx
COPY index.html /usr/share/nginx/html/index.html
```

`Dockerfile` contains instructions for building a custom Docker image. Here you use the `FROM` command to base your image on the NGINX one, and then use the `COPY` command to copy your `index.html` file into the new image under the `/usr/share/nginx/html` directory.

Build the new image with the command:

```
docker build . -t mynginx
```

This builds a new image called `mynginx`. Run the new image with the command:

```
docker run -p 8080:80 mynginx
```