

一、查看当前运行的容器：

```
[root@zhx ~]# docker ps
```

CONTAINER ID	IMAGE	COMMAND
58f97db6e688	demo_nginx:v1	"nginx -g 'daemon of..."
3 hours ago		
		Up 3 hours
0.0.0.0:80->80/tcp	clever_almeida	

进入当前运行的容器：

```
[root@zhx ~]# docker exec -it 58f97db6e688 /bin/bash
root@58f97db6e688:/#
显示这个就是进入到容器了
```

查看index.html文件

```
root@58f97db6e688:/# cd /usr/share/nginx/html/
root@58f97db6e688:/usr/share/nginx/html# ls -a
.  ..  50x.html  index.html
```

```
root@58f97db6e688:/usr/share/nginx/html# cat index.html
<!DOCTYPE html>
<html>
<head>
<title>welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>welcome to nginx!</h1>
<p>If you see this page, the nginx web server is
successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
```

```
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```

二、修改Dockerfile文件：

```
[root@zhx demo]# vim Dockerfile
#this is my first nginx Dockerfile
#version 1.0

#base images
FROM nginx

#MAINTAINER 维护者信息
MAINTAINER bob topcoder@163.com

RUN echo '<h1>hello,Dockerfile</h1>' >
/usr/share/nginx/html/index.html

#EXPOSE 映射端口
EXPOSE 80
```

构建镜像：

```
[root@zhx demo]# docker build -t demo_nginx:v2 .
Sending build context to Docker daemon 2.56kB
Step 1/4 : FROM daocloud.io/library/nginx:latest
--> 27a188018e18
Step 2/4 : MAINTAINER bob topcoder@163.com
--> Using cache
--> 7ac767f476ae
Step 3/4 : RUN echo '<h1>hello Dockerfile</h1>' >
/usr/share/nginx/html/index.html
--> Running in 675185e4ba0f
Removing intermediate container 675185e4ba0f
--> 4799df07140e
Step 4/4 : EXPOSE 80
--> Running in 6098d752c926
Removing intermediate container 6098d752c926
--> e091aa829e12
Successfully built e091aa829e12
Successfully tagged demo_nginx:v2
```

查看镜像：

```
[root@zhx demo]# docker images
```

REPOSITORY	TAG	IMAGE ID
	CREATED	SIZE
demo_nginx	v2	
e091aa829e12	12 seconds ago	109MB

运行基于镜像的容器：

```
[root@zhx demo]# docker run -d demo_nginx:v2
3e60cc0745cee07441910270d7ddd00e5145eb78489bbcfb2b00db0de2
b6aa12
```

配置端口并启动：

```
[root@zhx demo]# docker run -d -p 80:80 demo_nginx:v2
117ae59da90ea8b2d0b5a6e1c302defe1f0a99cfec801fc4c88fe7f2e8
45e33d
```

修改Dockerfile时的访问页面：

A screenshot of a web browser window. The address bar shows '47.102.153.168'. The page content displays 'Hello, Docker!' in a large, bold, black font. The browser's tab bar shows several open tabs, including '应用', '中国铁路12306', 'linux创建文件和文...', '撰写文件版本3参考...', 'Docker Compose...', '安装和设置kubectl...', and 'Helr'.

进入当前运行的容器：

```
[root@zhx ~]# docker exec -it 58f97db6e688 /bin/bash
root@58f97db6e688:/#
显示这个就是进入到容器了
```

查看index.html文件：

```
root@58f97db6e688:/# cd /usr/share/nginx/html/
root@58f97db6e688:/usr/share/nginx/html# ls -a
.  ..  50x.html  index.html
```

查看具体内容是否覆盖：

```
root@ae9c60ec9567:/usr/share/nginx/html# cat index.html
<h1>Hello, Docker!</h1>
```

三、修改nginx配置文件覆盖：

```
[root@zhx demo]# vim nginx.conf
worker_processes 1;
events {
    worker_connections 1024;
}
http {
    server {
        listen 80;
        location / {
            root    /usr/share/nginx/html;
            index   index.html index.htm;
        }
    }
}
```

修改Dockerfile：

```
[root@zhx demo]# vim Dockerfile
#this is my first nginx Dockerfile
#version 1.0

#base images
FROM nginx

#MAINTAINER 维护者信息
MAINTAINER bob topcoder@163.com
COPY nginx.conf /etc/nginx/nginx.conf

#EXPOSE 映射端口
EXPOSE 80
```

构建关于nginx配置文件覆盖：

```
[root@zhx demo]# docker build -t demo_nginx:v3 .
Sending build context to Docker daemon  4.096kB
Step 1/4 : FROM nginx
----> 27a188018e18
Step 2/4 : MAINTAINER bob topcoder@163.com
----> Using cache
```

```
---> 6c79595ddb46
Step 3/4 : COPY nginx.conf /etc/nginx/nginx.conf
---> 126e05b91ead
Step 4/4 : EXPOSE 80
---> Running in cb2b3aae7298
Removing intermediate container cb2b3aae7298
---> 582fa1935f0d
Successfully built 582fa1935f0d
Successfully tagged demo_nginx:v2
```

启动：

```
[root@zhx demo]# docker run -d -p 80:80 demo_nginx:v3
bd5e06a600893625ad707273ad6feb537999a4fc6019ae0f5098bbd36b
9ce866
```

访问页面：

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

进入容器：

```
[root@zhx demo]# docker exec -it bd5e06a /bin/bash
```

查看index.html文件：

```
root@bd5e06a60089:/# cd /usr/share/nginx/html
root@bd5e06a60089:/usr/share/nginx/html# ls -l
total 8
-rw-r--r-- 1 root root 494 Apr 16 13:08 50x.html
-rw-r--r-- 1 root root 612 Apr 16 13:08 index.html
root@bd5e06a60089:/usr/share/nginx/html# cat index.html
<!DOCTYPE html>
<html>
<head>
<title>welcome to nginx!</title>
```

```
<style>
  body {
    width: 35em;
    margin: 0 auto;
    font-family: Tahoma, Verdana, Arial, sans-serif;
  }
</style>
```

四、自定义index.html页面在当前目录下创建index.html的文件：

```
[root@zhx demo]# vim Dockerfile
#this is my first nginx Dockerfile
#version 1.0

#base images
FROM nginx

#MAINTAINER 维护者信息
MAINTAINER bob topcoder@163.com

ADD index.html /root/www

COPY nginx.conf /etc/nginx/nginx.conf
#EXPOSE 映射端口
EXPOSE 80
```

配置nginx配置文件：

```
[root@zhx demo]# cat nginx.conf
user root root;
worker_processes 1;
events {
    worker_connections 1024;
}
http {
    server {
        listen 80;
        location / {
            root /root/www;
            index index.html index.htm;
        }
    }
}
```

构建：

```
[root@zhx demo]# docker build -t demo_nginx:v4 .
Sending build context to Docker daemon 4.096kB
Step 1/5 : FROM nginx
---> 27a188018e18
Step 2/5 : MAINTAINER bob topcoder@163.com
---> Using cache
---> e0b08e35c8ad
Step 3/5 : ADD index.html /root/www/
---> 2e4544e5f754
Step 4/5 : COPY nginx.conf /etc/nginx/nginx.conf
---> f351cc059753
Step 5/5 : EXPOSE 80
---> Running in 011213f5ec4a
Removing intermediate container 011213f5ec4a
---> eea6e95a8914
Successfully built eea6e95a8914
Successfully tagged demo_nginx:v4
```

查看镜像：

```
[root@zhx demo]# docker images
```

REPOSITORY	TAG	IMAGE ID
demo_nginx	v4	
c8ba1db9adca	10 seconds ago	109MB

配置端口，并启动基于镜像的容器：

```
[root@zhx demo]# docker run -d -p 80:80 demo_nginx:v4
bdaaffdf7417a78054b2bb98c298be71123fb4949ee92cfe4e265801957b
b86f1
```

美好的一天，从学习Dockerfile开始

查看是否复制到www里面：

```
[root@zhx demo]# docker exec -it 633af138486 /bin/bash
root@633af1384867:/# cd /root/www
root@633af1384867:~/www# ls -l
total 4
-rw-r--r-- 1 root root 200 Apr 29 11:00 index.html
root@633af1384867:~/www# cat index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>首页</title>
</head>
<body>
  <h1 style="color: red">美好的一天，从学习Dockerfile开始
</h1>
</body>
</html>
```