

# Sharing files with containers

## 1 Make a new directory as set as PWD

```
$ mkdir apache-server && cd apache-server
```

## 2 Create a custom index.html file

```
$ nano index.html
```

```
<html>
<head>
  <title>Apache Container</title>
</head>
<body>
<h2>
  It definitely works!!!
</h2>
</body>
</html>
```



### 3 Run apache container

```
$ docker run -d --name apache-server -p 8080:80 httpd
```

### 4 List out containers

```
$ docker ps -a
```

Source path is a file and Destination path is a file

### 5 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server/index.html apache-server:/usr/local/apache2/htdocs/index.html
```



Source path is a file and Destination Path does not exist and is a directory

## 6 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server/index.html apache-server:/usr/local/apache2/htdoc/
```

Source path is a file and Destination Path exists and is a directory

## 7 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server/index.html apache-server:/usr/local/apache2
```

## 8 Execute bash in a running container

```
$ docker exec -it apache-server bash
```



Source path is a file and Destination Path does not exist

### 9 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server/index.html apache-server:/usr/local/apache2/index-v1.html
```

### 10 Execute bash in a running container

```
$ docker exec -it apache-server bash  
  
ls  
  
cat index-v1.html
```

Source path is a directory and Destination Path is a file

### 11 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server/ apache-server:/usr/local/apache2/htdocs/index.html
```

Source path is a directory and Destination Path does not exist

## 12 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server/  
apache-server:/usr/local/apache2/home
```

## 13 Execute bash in a running container

```
$ docker exec -it apache-server bash  
  
ls  
  
cd home/
```



Source path is a directory and does not end with /. and Destination Path exists and is a directory

#### 14 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server  
apache-server:/usr/local/apache2/htdocs/
```

#### 15 Execute bash in a running container

```
$ docker exec -it apache-server bash  
  
ls  
  
cd htdocs/  
  
cd apache-server  
  
cat index.html
```

#### 16 Change PWD to apache-server

```
$ cd apache-server  
  
$ touch index-v2.html  
  
$ cd . .
```



Source path is a directory and ends with /. and  
Destination Path exists and is a directory

### 17 Copy a file to a running container

```
$ docker cp /home/dhwani/apache-server/.  
apache-server:/usr/local/apache2/htdocs/
```

### 18 Execute bash in a running container

```
$ docker exec -it apache-server bash  
  
cd htdocs/  
  
ls  
  
ls apache-server/
```

