

Music++ Docker Documentation

For questions about the docker image, contact:

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1. Ensure Docker is installed:

docker

(Should display Docker commands and info)

```
→ sound_of_code_2.0 git:(shuwei_dockerDoc) docker
```

```
Usage:  docker [OPTIONS] COMMAND
```

```
A self-sufficient runtime for containers
```

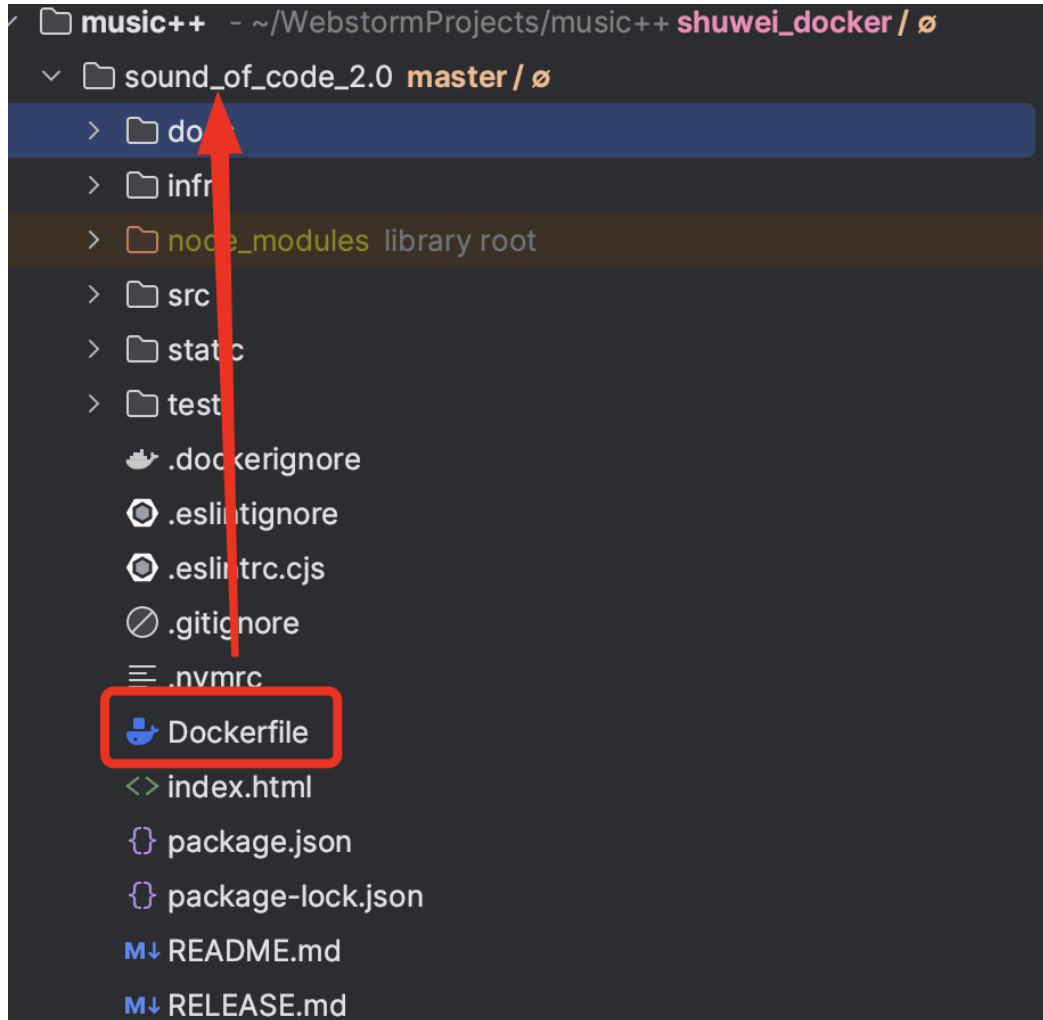
Common Commands:

| | |
|---------|--|
| run | Create and run a new container from an image |
| exec | Execute a command in a running container |
| ps | List containers |
| build | Build an image from a Dockerfile |
| pull | Download an image from a registry |
| push | Upload an image to a registry |
| images | List images |
| login | Log in to a registry |
| logout | Log out from a registry |
| search | Search Docker Hub for images |
| version | Show the Docker version information |
| info | Display system-wide information |

2. Clone the Repository

git clone https://git.las.iastate.edu/mcohen/sound_of_code_2.0.git
cd sound_of_code_2.0

Ensure you're in the directory containing the **Dockerfile**.



3. Build the Docker Image

docker build -t shuweic227/soc_ .

// don't forget the . at last

(Note: Common format is `[accountName/image_name]`)

```
+ sound_of_code_2.0 git:(master) docker build -t shuweic227/soc_client .
[+] Building 11.6s (8/10)
=> [internal] load .dockerignore
=> => transferring context: 53B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 182B
=> [internal] load metadata for docker.io/library/node:alpine
=> [auth] library/node:pull token for registry-1.docker.io
=> [internal] load build context
=> => transferring context: 71.44MB
=> [1/5] FROM docker.io/library/node:alpine@sha256:df76a9449df49785f89d517764012e3396b063ba3e746e8d88f36e9f332b1864
=> resolve docker.io/library/node:alpine@sha256:df76a9449df49785f89d517764012e3396b063ba3e746e8d88f36e9f332b1864
=> sha256:7f825bab68d24b700b8ce6606faebac1f67914cb13e6b294f6aaafac2d880e9d 51.76MB / 51.76MB
=> sha256:16ff0f45c2d468195b5924af01b4b859eb6b069100bda936f8638208dd9e6e10 2.37MB / 2.37MB
=> sha256:88d943e4bb91b17f3f6fa9630a8f1a5ea86e7631ecc67672da9599250d07d3cb 450B / 450B
=> sha256:df76a9449df49785f89d517764012e3396b063ba3e746e8d88f36e9f332b1864 1.43kB / 1.43kB
=> sha256:299d78d04496488a616b166a50a53387c50feaf171cb46f0ebe1d8757eaa68a7 1.16kB / 1.16kB
=> sha256:5cc28ae775ec889cccd9ed691dc348259973dc0c2e49e6af8830a263595dd9b9 6.79kB / 6.79kB
=> extracting sha256:7f825bab68d24b700b8ce6606faebac1f67914cb13e6b294f6aaafac2d880e9d
=> extracting sha256:16ff0f45c2d468195b5924af01b4b859eb6b069100bda936f8638208dd9e6e10
=> extracting sha256:88d943e4bb91b17f3f6fa9630a8f1a5ea86e7631ecc67672da9599250d07d3cb
[2/5] WORKDIR /app
=> [3/6] COPY package.json /
```

4. Run the Docker Container

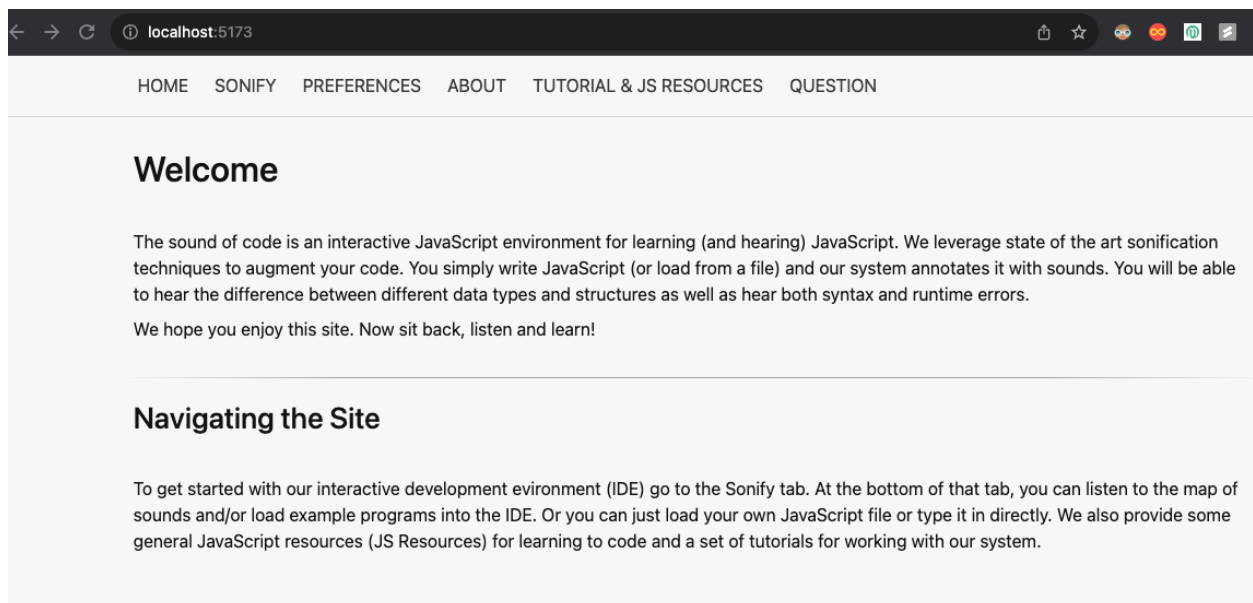
- Standard Run (Port 5173):

docker run -p 5173:5173 -d shuweic227/soc_client

```
+ sound_of_code_2.0 git:(master) docker run -p 5173:5173 -d shuweic227/soc_client
074a27c61b0785c74620594ce6fbd2fa631ab177f195ace9890571a98403bc53
+ sound_of_code_2.0 git:(master)
```

5. Access from browser

<http://localhost:5173/>



6. How to stop Container
 - a. Print out all container info

Docker ps

```
➔ sound_of_code_2.0 git:(shuwei_dockerDoc) docker ps
```

| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS | NAMES |
|--|---------------------------|---------------------------|-------------|------------|----------------------------------|------------------------------|
| 67b225ba3f60 | 61f2af1ba403 | "docker-entrypoint.s..." | 2 weeks ago | Up 2 weeks | 3000/tcp, 0.0.0.0:5173->5173/tcp | vigorous_gauss |
| b6bddee68bbe | shuweic227/client | "docker-entrypoint.s..." | 2 weeks ago | Up 2 weeks | | k8s_client_client-depl-7f... |
| t_69cd0473-ec6f-4693-8e7f-4d3edb688102_2 | | | | | | |
| b32a14fc3e95 | registry.k8s.io/pause:3.9 | "/pause" | 2 weeks ago | Up 2 weeks | | k8s_P00_client-depl-7fd4f... |
| 9cd0473-ec6f-4693-8e7f-4d3edb688102_0 | | | | | | |
| 3d009f468b1c | 97e04611ad43 | "/coredns -conf /etc..." | 2 weeks ago | Up 2 weeks | | k8s_coredns_coredns-5d78c... |
| em_07461067-4b77-49c5-81ae-a97e7a35738e_10 | | | | | | |
| fab99bb8067 | 97e04611ad43 | "/coredns -conf /etc..." | 2 weeks ago | Up 2 weeks | | k8s_coredns_coredns-5d78c... |
| em_c869a53e-0484-4814-b748-957c033b72bd_10 | | | | | | |
| d39093d670cf | c027a58fa0bb | "/storage-provisioner..." | 2 weeks ago | Up 2 weeks | | k8s_storage-provisioner_s... |
| be-system_c7addc7f-14d5-46ae-9908-b92413401dea_19 | | | | | | |
| 532903fddf08 | 3750dfec169f | "/kube-vpnkit-forward..." | 2 weeks ago | Up 2 weeks | | k8s_vpnkit-controller_vpn... |
| ystem_f727c426-156f-497d-9a50-c784ca16492a_12 | | | | | | |
| 92c1f41af99e | 33e0d36787b4 | "/usr/bin/dumb-init ..." | 2 weeks ago | Up 2 weeks | | k8s_controller_ingress-ng... |
| 6454-81g2t_ingress-nginx_f81d5897-4fa0-4523-915c-e98af857f9af_7 | | | | | | |
| 781d9ed9b7e6 | 2ee705380c3c | "kube-controller-man..." | 2 weeks ago | Up 2 weeks | | k8s_kube-controller-manag... |
| nager-docker-desktop_kube-system_6d2a77df9cc3ca29a2153e8e119160ab_14 | | | | | | |
| a7d4464ac51d | 72c9df6be7f1 | "kube-apiserver --ad..." | 2 weeks ago | Up 2 weeks | | k8s_kube-apiserver_kube-a... |
| op_kube-system_2c5ac5deb80203a34d3d0ae47868dbee_14 | | | | | | |
| 1b4c4c6f5963 | 24bc64e91103 | "etcd --advertise-cl..." | 2 weeks ago | Up 2 weeks | | k8s_etcd_etcd-docker-desk... |

- b. Find the CONTAINER ID that our project is using

Docker stop [ContainerID]

```
➔ sound_of_code_2.0 git:(master) docker stop 67b225ba3f60
67b225ba3f60

➔ sound_of_code_2.0 git:(master) docker stop b6bddee68bbe
b6bddee68bbe
```

It should return the id itself which means successfully stopped.

For more detail instruction or other condition not list above please check the [dockerInstruction.md](#) under **docs** folder. Feel free to email Shuwei: cuicoms@iastate.edu