

Full Setup: SSH Between Two Docker Containers

1 Create Two Ubuntu Containers

```
docker run -dit --name containerA ubuntu # SSH client
docker run -dit --name containerB ubuntu # SSH server
```

2 Install and Configure SSH Server in containerB

```
docker exec -it containerB bash
apt update && apt install -y openssh-server
mkdir /var/run/ssh
mkdir -p /root/.ssh
service ssh start
```

3 Install SSH Client and Generate Key in containerA

```
docker exec -it containerA bash
apt update && apt install -y openssh-client
ssh-keygen -t rsa -b 2048 -f ~/.ssh/id_rsa -q -N ""
cat ~/.ssh/id_rsa.pub
```

Copy the output of the public key (id_rsa.pub)

4 Paste Public Key into containerB

In a new terminal, run:

```
docker exec -it containerB bash
nano /root/.ssh/authorized_keys # Paste the public key here
chmod 600 /root/.ssh/authorized_keys
```

5 Get containerB's Internal IP

```
docker inspect -f '{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' containerB
```


Example output: 172.17.0.3 — use this as the SSH target

SSH from containerA to containerB

```
docker exec -it containerA bash
```

```
ssh root@172.17.0.3
```

Type yes to continue when prompted.

 You're now logged into containerB from containerA via SSH!

Optional: Clean Up

```
docker stop containerA containerB
```

```
docker rm containerA containerB
```