

Expose docker host API to connect over TCP

This page describes exposing the Docker Host API over plain TCP without proper security controls. **Directly binding the Docker daemon to an unprotected TCP socket (e.g. 0.0.0.0:2375) is strongly discouraged** because it can allow unauthorized remote users to gain full control of your Docker host. Modern Docker best practices require securing remote API access with TLS or using alternatives such as SSH, VPN or a proxy solution. For current guidance, refer to the official Docker documentation on configuring remote access and securing the Docker daemon.

Edit file on docker host

Edit this file `/lib/systemd/system/docker.service` with root permissions and add the string of " -H=tcp://0.0.0.0:2375" behind the "ExecStart=" row.

```
sudo nano /lib/systemd/system/docker.service
```

Add text to configuration file

```
GNU nano 4.8 /lib/systemd/system/docker.service
[Unit]
Description=Docker Application Container Engine
Documentation=https://docs.docker.com
After=network-online.target docker.socket firewalld.service containerd.service
Wants=network-online.target
Requires=docker.socket containerd.service

[Service]
Type=notify
# the default is not to use systemd for cgroups because the delegate issues still
# exists and systemd currently does not support the cgroup feature set required
# for containers run by docker
ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock -H=tcp://0.0.0.0:2375
ExecReload=/bin/kill -s HUP $MAINPID
TimeoutSec=0
RestartSec=2
Restart=always

# Note that StartLimit* options were moved from "Service" to "Unit" in systemd 229.
# Both the old, and new location are accepted by systemd 229 and up, so using the old location
# to make them work for either version of systemd.
StartLimitBurst=3

# Note that StartLimitInterval was renamed to StartLimitIntervalSec in systemd 230.
# Both the old, and new name are accepted by systemd 230 and up, so using the old name to make
# this option work for either version of systemd.
StartLimitInterval=60s
```

Reload docker daemon

```
sudo systemctl daemon-reload
```

Restart docker service

```
sudo systemctl restart docker
```

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