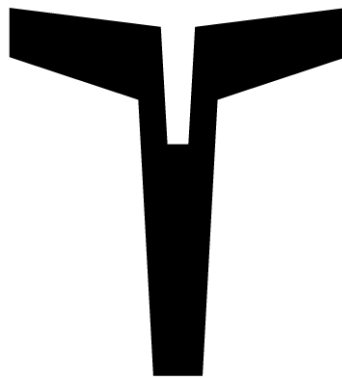


Title	Lethean – Exit Node Setup Guide
Document Type	Guide
Document Classification	Public
Version	0.1
Date	12th March 2022
Written by	darbs

LETHEAN



<p>LETHEAN</p>	<p>Title Document Type Document Classification Version Date Written by</p>	<p>Lethean – Exit Node Setup Guide Guide Public 0.1 12th March 2022 darbs</p>
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Audience

Public

Document Summary

Quick reference on how to setup a Lethean Exit node.

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Getting Started

To be added.

Easy Deploy

To be added.

Get the basics setup

```
mkdir -p Lethean/vpn
cd Lethean/vpn
mkdir etc
mkdir log
```

```
docker run -t -i \
--mount type=bind,source=$(pwd)/etc,target=/opt/lthn/etc \
--mount type=bind,source=$(pwd)/log,target=/dev/log \
lthn/vpn easy-deploy
```

IMPORTANT NOTE: The last 7 lines of output from the “easy-deploy” process must be captured and stored in a safe place. This contains the wallet and your (local certificate authority) ca passwords which can not be retrieved later on if not saved now.

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Update dispatcher.ini and sdp.json with node specific configurations

dispatcher.ini

```
cd ~/Lethean/vpn
nano dispatcher.ini
```

At a minimum, update the following values:

`;provider-type=commercial` ; (Optional) This is a default value and assumes residential. This value does not need to be change. Remove the leading “;”, if using in a commercial environment.

`provider-name=Provider` ; Friendly name for your provider, make it unique!

`provider-terms=Some Terms` ; Your usage terms. This can be text or even point to a URL if wanting to provide a more detailed requirement for node usage.

OR

`;provider-terms=@from_file.txt` ; Use if not wishing to use “provider-terms”.

`[service-1A]`

`name=Proxy` ; A chosen name for your proxy, currently “Proxy”. Do the same for any other services you have on the same exit node docker container instance.

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sdp.json

Dispatcher.ini configuration must match the sdp.json configuration, therefore ensure provider names, terms and service names are the same.

We now require the setup of the **SDP.JSON** file with matching configuration. The dispatcher binary lives within the lethean docker image `lthn/vpn` hence we'll be opening a shell to start an interactive sdp configuration step inside the docker container.

The resulting sdp.json configuration file will be updated in/outside the container on the host path `~/Lethean/vpn/etc/sdp.json` upon completion of configuration.

Start a new container with the lthn/vpn:latest image, in attached mode while having an interactive session and being presented with a shell.

```
cd ~/Lethean/vpn
docker run -ti \
  --mount type=bind,source=$(pwd)/etc,target=/opt/lthn/etc \
  --mount type=bind,source=$(pwd)/log,target=/dev/log \
  lthn/vpn sh
```

Generate a new update SDP file with your desired exit node configuration. You can repeat this step if required later. Ensuring to follow-up with a “upload-sdp” as per [section Publish via SDP](#).

```
/opt/lthn/bin/lvmgmt --generate-sdp \
--wallet-address
iz4j6c5efixFKjNPhudjCeV4VGXZGbWlYUxp9Ya9shyv372HSUU4ucGZxWfKujp5d74akTSWszPq93u
JR3eGqx91PPVhz6j \
--sdp-provider-name "Lethernet Reborn" \
--sdp-provider-type residential \
--sdp-service-id 1a \
--sdp-service-name "DE Proxy 1" \
--sdp-service-type proxy \
--sdp-service-endpoint de01.proxy.lt.hn \
```

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```
--sdp-service-port 8088 \
--sdp-service-dlspeed 10 \
--sdp-service-ulspeed 10 \
--sdp-service-cost 0.10 \
--sdp-service-prepaid-mins 60 \
--sdp-service-verifications 0
Initialising SDP file /opt/lthn/etc/sdp.json
SDP configuration saved to /opt/lthn/etc/sdp.json
```

Type “**exit**” once the above process completes to exit the container. It’s no longer required.

IMPORTANT NOTE:

Currently the sdp generation process does not automatically transfer the dispatcher.ini “provider-terms” to sdp.json. This must be added manually to the sdp.json file.

The following syntax currently does not work during the sdp file generation process and needs to be added to the **sdp.json** file manually, the following section gives examples on how to update this configuration.

```
--sdp-provider-terms TEXT (no service specific “terms” command exists, which
also needs adding manually)
--sdp-service-endpoint FQDN
--sdp-service-proto PROTOCOL
```

sdp.json manual updates (presently required)

From the host edit the sdp.json file updated by the last step:

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```
cd ~/Lethean/vpn/etc
nano sdp.json
```

Example of required updates and syntax:

```
"terms": "https://node-terms.lt.hn",
```

Proxy section will already exist, including the defined port.

Add endpoints and update port protocol if required, along with terms for the specific service.

```
"proxy": [
    {
        "endpoints": [ "de01.proxy.lt.hn" ],
        "port": "8088/TCP"
    }
],
"terms": "https://node-terms.lt.hn",
```

Save all changes and exit nano.

Run & Test

To be added.

Run Dispatcher

Check that squid, RPC wallet and dispatcher do come up successfully. The session will not come to a console prompt when the dispatcher is running.

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Best to run docker in de-attached mode in this section as the processes running inside the container are non-interactive for added security and won't respond to keystrokes while running it. You won't be able to use typical escape methods such as "Ctrl+P+Q" even if starting the container using the "-ti" options to detach from the container back to the host if needed.

Check logs to confirm everything started OK.

```
cd ~/Lethean/vpn
docker run -d --name lthn-vpn -p 8088:8088 \
-e WALLET_PASSWORD=***** \
-e WALLET_RPC_PASSWORD=***** \
--mount type=bind,source=$(pwd)/etc,target=/opt/lthn/etc \
--mount type=bind,source=$(pwd)/log,target=/dev/log \
lthn/vpn
```

```
docker logs -f lthn-vpn
```

(Notes to be added for knowing if all OK)

Publish via SDP

```
cd ~/Lethean/vpn
docker run --mount type=bind,source=$(pwd)/etc,target=/opt/lthn/etc \
--mount type=bind,source=$(pwd)/log,target=/dev/log \
lthn/vpn upload-sdp
```