

Request for a sys-i2pd setup guide

[networking, configuration](#)

[tanky0u](#) 1 March 3, 2024, 10:17am

I would like to have a sys-i2p qube that I can use to browse i2p network. Here are some rough wishlist that I expect to have with this:

1. Connect my i2p-dvm disposable template as its net qube. Thus, automatically route any dispXXX qubes that are spawned from i2p-dvm template through the i2p network, allow the web browser that runs inside that dispXXX (example, mullvad browser) to connect to eepsites.
2. Have no clearnet connections whatsoever. Only connect to the i2p network, have no clearnet leaks, neither DNS nor anything else.
3. make it debian 12 based. It can be a minimal one, but that's not an absolute necessity. The only thing I really really want is that neither sys-i2p qube nor the disposable qubes I create from i2p-dvm template has not clearnet connectivity whatsoever.

Any takers for this task? I know in the past there has been an attempt by one of the community members (see "Introducing sys-i2pd" thread) but that project is gone now. And I think we can come up with a new one that doesn't have any attached drama around it.

Let's use this thread for discussion about how we can create such a net qube according to the abovementioned requirements.

4 Likes

[Introducing sys-i2pd](#)

[Design idea : Template of I2P version of Whonix on Qubes os](#)

[tanky0u](#) 2 March 6, 2024, 7:08am

I just found this link: [HowTo/Qubes – i2pwiki.mk16.de](https://web.archive.org/web/20211130081927/http://qubesos4rrr.github.io/HowTo/Qubes-i2pwiki.mk16.de) which states the following:

```
## I2P in a ProxyVM[[Bearbeiten]](https://web.archive.org/web/20211130081927/http://qubesos4rrr.github.io/HowTo/Qubes-i2pwiki.mk16.de)
```

This is a basic guide that can probably be improved.

1. Create the ProxyVM that will run I2P. Debian or Fedora-minimal would be a good choice.
2. Install I2P and forward ports.

* Port forwarding instructions can be found at the Qubes-OS website:

Onion address [[4]](https://web.archive.org/web/20211130081927/http://qubesos4rrr.github.io/HowTo/Qubes-i2pwiki.mk16.de)

2. Edit the ProxyVM startup scripts. Firewall rules must be added to /rw/config/

* List the existing iptables rules. New rules on the INPUT chain need to be inserted

```
$ sudo iptables -S
```

* Example additions to qubes-firewall-user-script. Add rules for port forwarding

Flush forwarding chain rules, set policy to reject. This should prevent accidental

```
iptables -F FORWARD
```

```
iptables -P FORWARD REJECT
```

INPUT chain rules to allow connections from the AppVM.

See http://i2p-projekt.i2p/en/faq#ports (<https://web.archive.org/web/20211113000000/http://i2p-projekt.i2p/en/faq#ports>)

I have some questions about it:

1.

```
iptables -I INPUT <rule#> -s 10.137.x.x -p tcp --dport 4444 -j ACCEPT ## HTTP proxy
```

```
iptables -I INPUT <rule#> -s 10.137.x.x -p tcp --dport 7654 -j ACCEPT ## console
```

```
iptables -I INPUT <rule#> -s 10.137.x.x -p tcp --dport 7656 -j ACCEPT ## SAM
```

```
iptables -I INPUT <rule#> -s 10.137.x.x -p tcp --dport 6668 -j ACCEPT ## irc
```

on this part do I add as many 10.137.x.x IP addresses as the number of qubes I want to route through this sys-i2pd?
2. How does more than one qube routing its internet connection through sys-i2pd play with each other? Is there something like tangling up of i2p tunnels between the isolated qubes that would pose some infosec harm?

[tanky0u](#) 3 March 7, 2024, 2:00pm

Tried setting up sys-i2pd, and failed.

It is kinda complicated. Especially the iptables stuff. I have no idea how it works nor how to set them up properly.

The problems are:

- how to forward the relevant HTTP, SAM, SOCKS ports from the sys-i2pd to the target appVM
- how to do the above but now with the disposable template VM. Do I need a dynamic way to assign internal IPs to the iptables setup of sys-i2pd each time a new dispXXXX (which uses sys-i2pd as its net qube) gets summoned
- on sys-i2pd, how to constrain its internet access only to the what the i2pd daemon connects to? I don't want to have a cleartext connection from the sys-i2pd going out, ever. So the only outgoing internet comms should be through i2pd in sys-i2pd. How to achieve that?

[PostedPortal](#) 4 October 5, 2024, 5:13am

i could be wrong here but i think after qubes 4.2, iptables was replaced with nftables for firewalling

Edit: I am very interested in this thread. i2p is interesting as a 2nd option

1 Like

[whoami](#) 5 October 5, 2024, 6:14am

These three sources should help you:

[GitHub - control-owl/suriGUI: GUI for Suricata + Qubes OS](#)

[main](#)

GUI for Suricata + Qubes OS. Contribute to control-owl/suriGUI development by creating an account on GitHub.

PurpleI2P/i2pd

 I2P: End-to-End encrypted and anonymous Internet



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[GitHub - PurpleI2P/i2pd: I2P: End-to-End encrypted and anonymous...](#)

 I2P: End-to-End encrypted and anonymous Internet

[PurpleI2P/i2pd/blob/openssl/contrib/i2pd.conf](#)

```
## Configuration file for a typical i2pd user
## See https://i2pd.readthedocs.io/en/latest/user-guide/configuration/
## for more options you can use in this file.

## Lines that begin with "## " try to explain what's going on. Lines
## that begin with just "#" are disabled commands: you can enable them
## by removing the "#" symbol.

## Tunnels config file
## Default: ~/.i2pd/tunnels.conf or /var/lib/i2pd/tunnels.conf
# tunconf = /var/lib/i2pd/tunnels.conf

## Tunnels config files path
## Use that path to store separated tunnels in different config files.
## Default: ~/.i2pd/tunnels.d or /var/lib/i2pd/tunnels.d
# tunnelsdir = /var/lib/i2pd/tunnels.d

## Path to certificates used for verifying .su3, families
## Default: ~/.i2pd/certificates or /var/lib/i2pd/certificates
# certsdir = /var/lib/i2pd/certificates
```

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