

# TINC Mini-Howto

So you want to setup Tinc and you're in a hurry? This page will help you.  
This page assumes you're running a Linux > 2.4.0 kernel.

Your net: 192.168.10.0/24, your ip: 192.168.10.23

Your external ip: 100.1.2.3

The other side (the network you wish to have a tunnel to): 192.168.98.0/24, your ip: 192.168.98.1

Their external ip: 50.1.2.3

It is assumed that 'the other side' is the server-side, you are the client.

- *Step 1:*  
Make sure you have the TUN/TAP-device in your kernel.
- *Step 2:*  
Pick a name for the tunnel. In this example we use "twwh" (transwarpwormhole :-]).  
In **/etc/tinc**, create the directory **twwh** and **twwh/hosts**.
- *Step 3:*  
On the *server*-side, create a file **/etc/tinc/twwh/tinc.conf** with contents:  
**# set this to the interface of your internet-connection, or leave it out**  
**#BindToInterface**  
**Device=/dev/net/tun**  
**Mode=switch**  
**# pick a name here, I chose 'twwhserver', but something else is ok too. but make sure**  
**# it's a unique name on your TINC-tunnel-network!!**  
**Name=twwhserver**  
**PrivateKeyFile=/etc/tinc/twwh/rsa\_key.priv**
- *Step 4:*  
Generate key-files; run (on the server) **tincd -n twwh -K**  
If all went well, a file **/etc/tinc/twwh/hosts/twwhserver** was created. Edit that file and add to the top:  
**Compression=9**  
**Subnet=192.168.98.0/24**  
**Address=50.1.2.3**  
Now copy this file (**/etc/tinc/twwh/hosts/twwhserver**) to the **/etc/tinc/twwh/hosts**-directory on the client!
- *Step 5:*  
On the *client*-side, create a file **/etc/tinc/twwh/tinc.conf** with contents:  
**ConnectTo=twwhserver**  
**Device=/dev/net/tun**  
**Mode=switch**  
**# pick a name here, I chose 'twwhclient', but something else is ok too. but make sure**  
**# it's a unique name on your TINC-tunnel-network!!**  
**Name=twwhclient**  
**PrivateKeyFile=/etc/tinc/rsa\_key.priv**
- *Step 6:*  
Generate key-files; run **tincd -n twwh -K**  
If all went well, a file **/etc/tinc/twwh/hosts/twwhclient** was created. Edit that file and add to the top:  
**Compression=9**

**Subnet=192.168.10.0/24**

**Address=100.1.2.3**

Now copy this file (`/etc/tinc/twwh/hosts/twwhclient`) to the `/etc/tinc/twwh/hosts`-directory on the server!

- *Step 7:*

On the *server*, create a file `/etc/tinc/twwh/tinc-up` script with contents:

```
#!/bin/sh
```

```
ifconfig $INTERFACE 192.168.98.1 netmask 255.255.255.0
```

```
route add -host 192.168.10.23 dev $INTERFACE
```

```
route add -net 192.168.10.0 netmask 255.255.255.0 gw 192.168.10.23
```

On the *client*, create a file `/etc/tinc/twwh/tinc-up` script with contents:

```
#!/bin/sh
```

```
ifconfig $INTERFACE 192.168.10.23 netmask 255.255.255.0
```

```
route add -host 192.168.98.1 dev $INTERFACE
```

```
route add -net 192.168.98.0 netmask 255.255.255.0 gw 192.168.98.1
```

Don't forget to make tinc-up executable (`chmod +x /etc/tinc/twwh/tinc-up`) on both the client and the server!

You can now start tinc: **tincd -n twwh**

Done!

Common errors:

- Make sure that the firewalls allow on *BOTH* the client AND the server traffic to port 655/tcp and 655/udp
- Make sure that `/etc/tinc/twwh/tinc-up` is executable
- If you get "bogus data received from..." in the output of syslogd, you did something wrong with the keys
- If the routing is ok, the tunnel is ok but still you don't get any traffic across the bridge, make sure the '**Mode=**'-line in `tinc.conf` is the same on both the client and the server

For a more elaborate manual on TINC, visit the documentation-page on the official site:

<http://tinc.nl.linux.org/documentation/tinc.html>

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If you have any suggestions or whatsoever, contact me at: [folkert@vanheusden.com](mailto:folkert@vanheusden.com)