The tinc VPN

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Guus Sliepen

`guus@tinc-vpn.org`

1.1

Development start September 1997. Version 1.0 in August 2003.

- Connect multiple nodes together in one VPN
- Peer-to-peer, decentralized
- Automatic full mesh
- Full support for IPv4 and IPv6
- Router or switch mode
- Adding a new node is $\mathcal{O}(1)$

Tinc has been known to run on:

- Linux
- OpenBSD, FreeBSD, NetBSD, Dragonfly
- MacOS/X
- Windows
- Android*
- iOS*

*) *rooted device required*

- Configure endpoints, not tunnels
- Exchange public keys with at least one other node
- Tinc learns about all other nodes
- Autodetects TCP or UDP, PMTU, NAT
- Routes around damage

Network before VPN is configured:
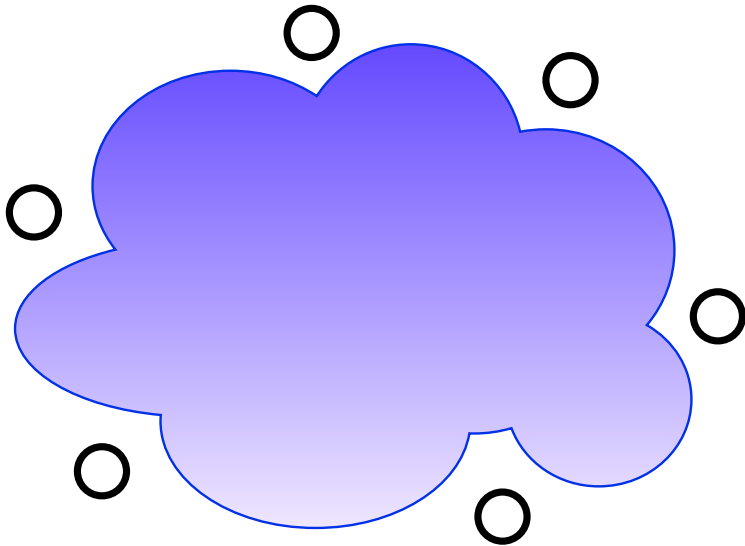
Blue cloud: the Internet
Black circles: VPN nodes

Initial connections configured by user:
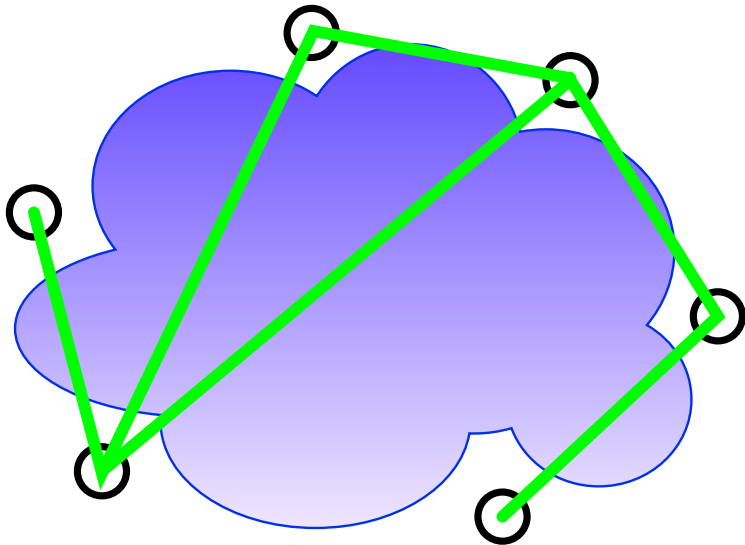
Green lines: initial connections

Full mesh created by tinc:
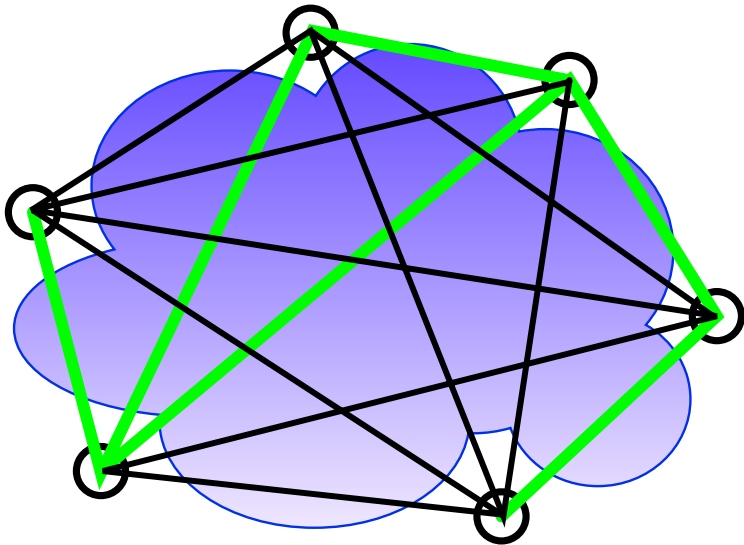
Black lines: UDP tunnels

Tinc 1.1 will be better than 1.0.x.

Stronger cryptography:

- 521 bits ECDSA keys
- AES-256-CTR + HMAC-SHA256
- Perfect Forward Secrecy
- Always end-to-end encryption

PRISM proof?

Easy setup:

```
myself:~# tinc -n myVPN init
myself:~# tinc -n myVPN add Subnet 93.184.216.0/24
```

Easy exchange of config files:

```
myself:~# tinc -n myVPN export \
        | ssh remotehost tinc -n myVPN import
```

Get information from running VPN:

```
myself:~# tinc -n myVPN info <node|address>
myself:~# tinc -n myVPN top
```

Generate an invitation*:

```
myself:~# tinc -n myVPN invite myFriend
example.org/vhdIF...m7rXK
```

Short enough to send it to a friend via email, IRC, SMS, ...

```
afriend:~# tinc join example.org/vhdIF...m7rXK
```

*) *Use git or wait for version 1.1pre8.*

tinc

Thank you for listening!

Visit the website:
`http://tinc-vpn.org/`

Workshop today @ Milliways, 17:00 - 18:00.
You are welcome!