

Hi :-)

- Moritz Warning (mwarning)
- Wrote a tool – want to share

KadNode

- Yet another P2P-DNS like service
- Usable for DynDNS purposes
- Written in C
- Open Source
- Small: 80-120KB

How it works

- DHT (Distributed Hash Table)
 - DHT code from Transmission Bittorrent client
 - Maps 20 Bytes strings to addresses
- OS interface to resolve .p2p domain
 - NSS (Name Service Switch)

Server Setup

/etc/kadnode/kadnode.conf

```
--value-id some_identifier.p2p  
--value-id some_other_identifier.p2p
```

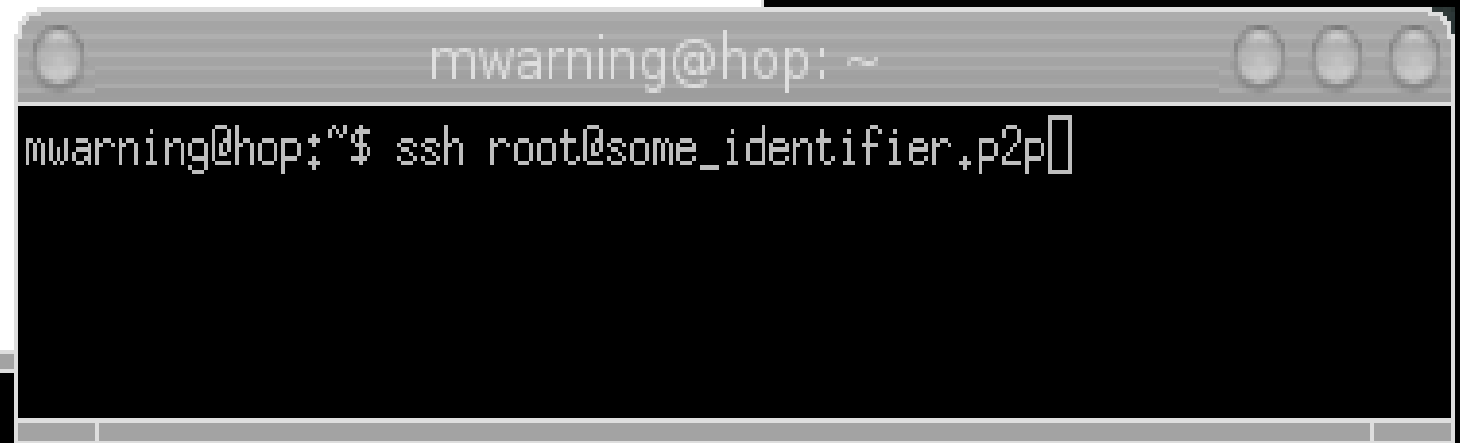
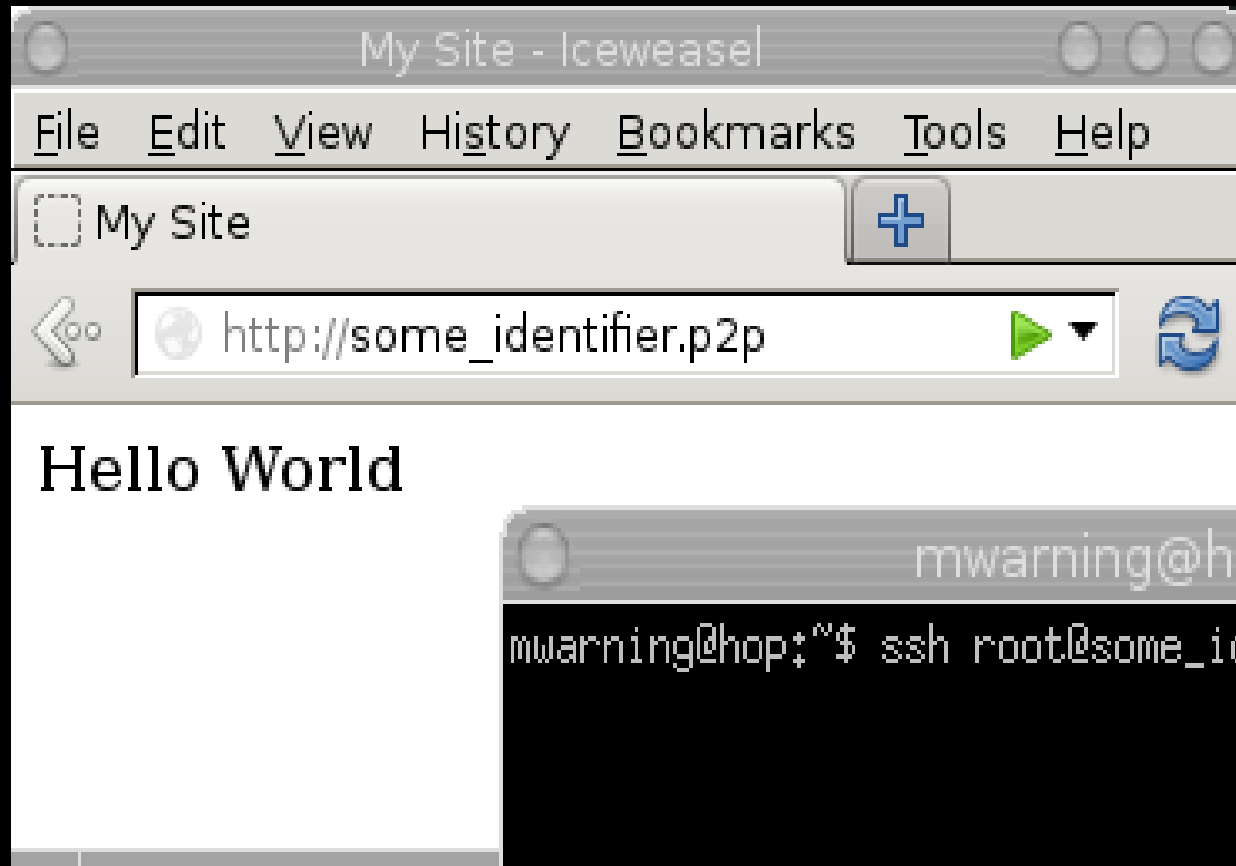
Bootstrapping from /etc/kadnode/peers.txt

```
bttracker.debian.org
```

... or via local peer discovery

Laptop

On another computer running KadNode:



Authentication

```
$kadnode --auth-gen-keys  
public key: 70feb02409ab6d2d0b...  
secret key: d5bcf6f4f64c8d1d....
```

```
/etc/kadnode/kadnode.conf
```

```
--value-id <secret-key>
```

Now use <public_key>.p2p on your Laptop

Features

- IPv4/IPv6
- Local Peer Discovery
- NAT Port mapping (UPnP/NAT-PMP)
- OpenWrt/Debian/ArchLinux/OSX packets
 - Windows packet on the way
- Support for mapping of clear text domains to public key (pet name system).
 - myname.p2p => <public-key>.p2p

Thanks

- <https://github.com/mwarning/KadNode>
- Have fun!