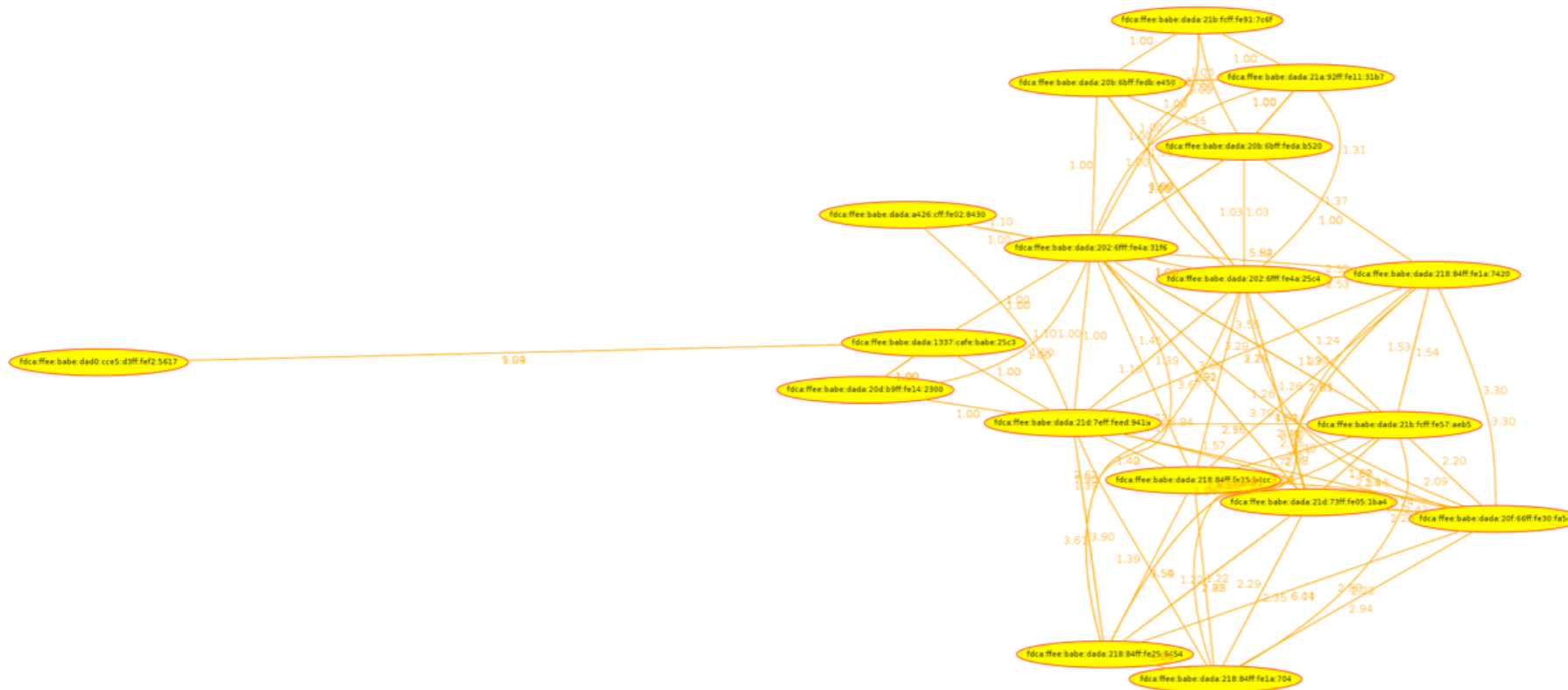
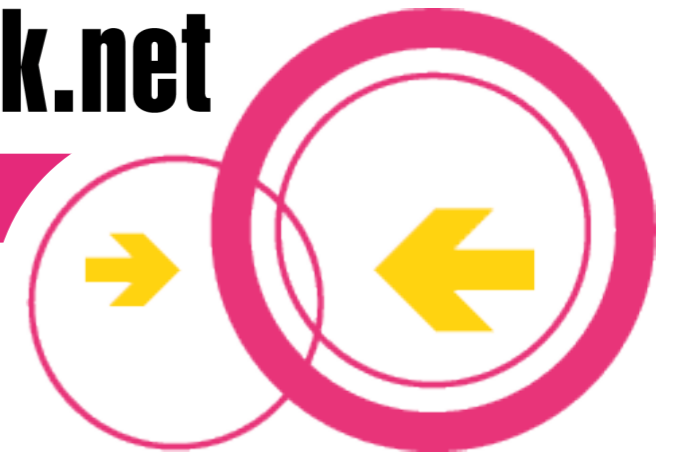


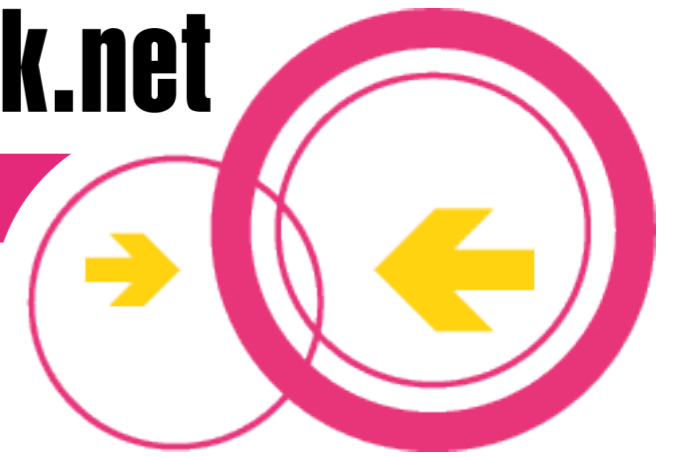
Ideas about future use of Ipv6 in Freifunk Networks





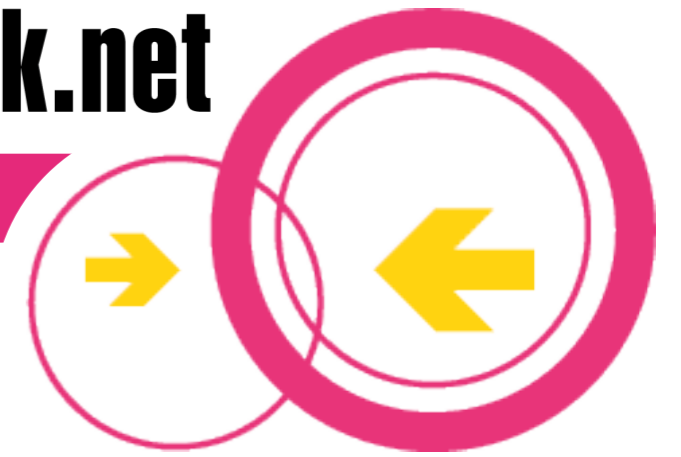
Whats now

- IPv4 routing
- IPv6 coming
- IPv4 fuckup in some citys



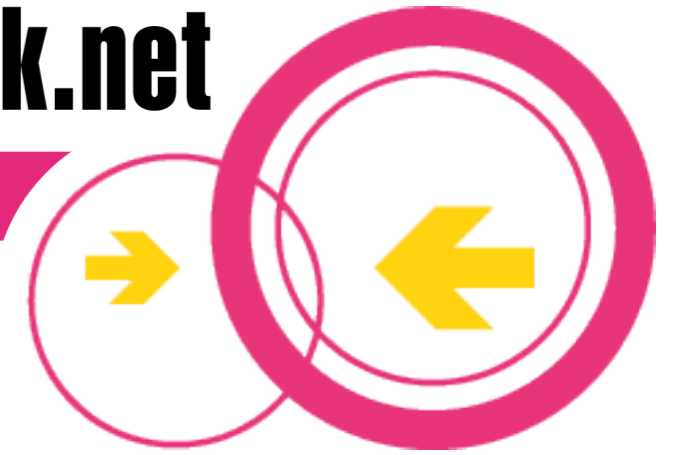
More fuckup

- Gateway selection
- Network delegation from uplink



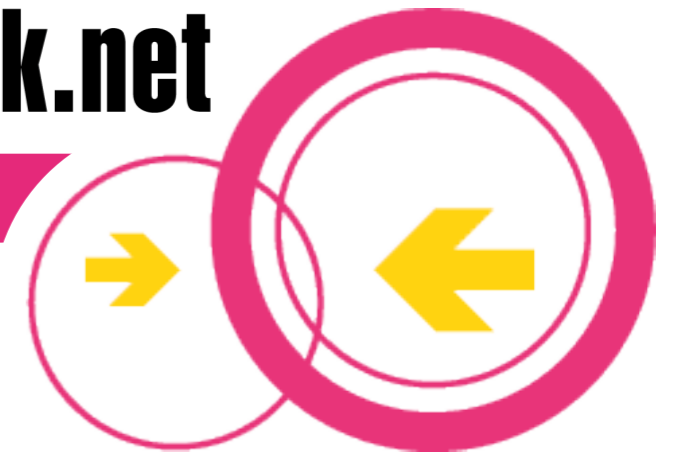
Possible ways of ipv6

- 6 in 4 tunnel
- dual stack
- 4 in 6 tunnel
- Protocol translation



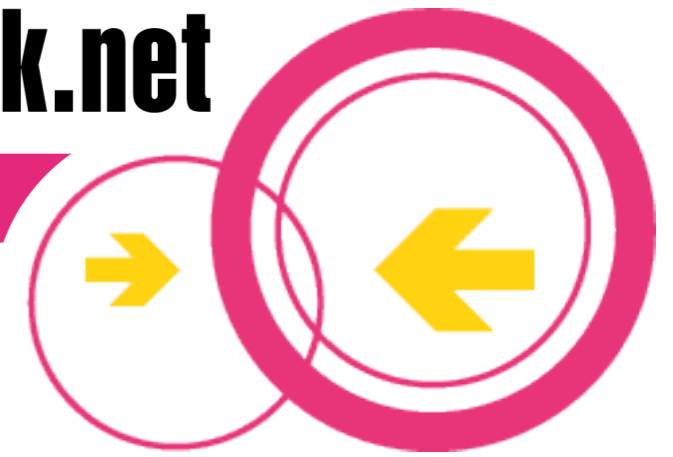
Niit

- Dynamic
- Stateless
- Encapsulation

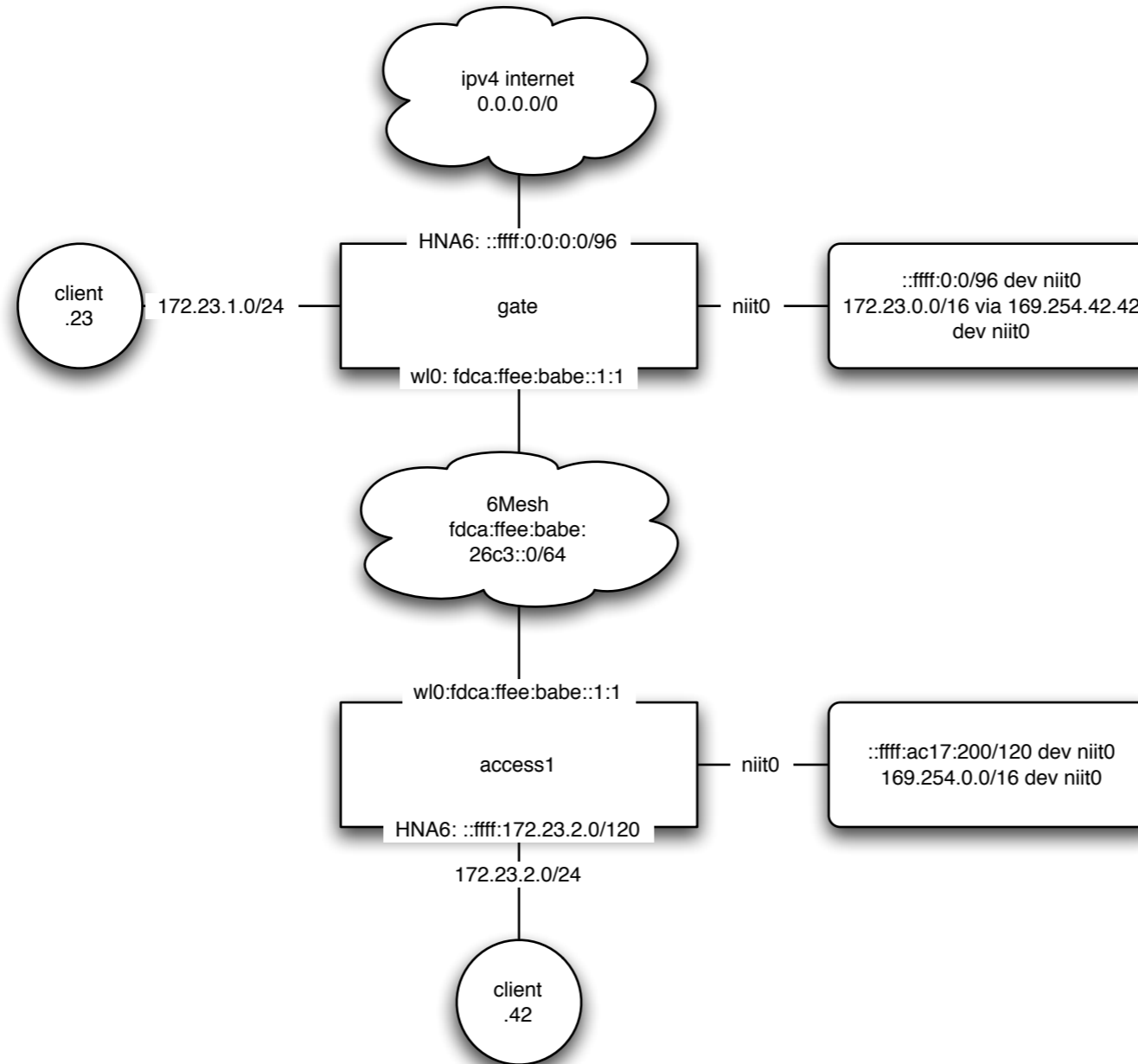


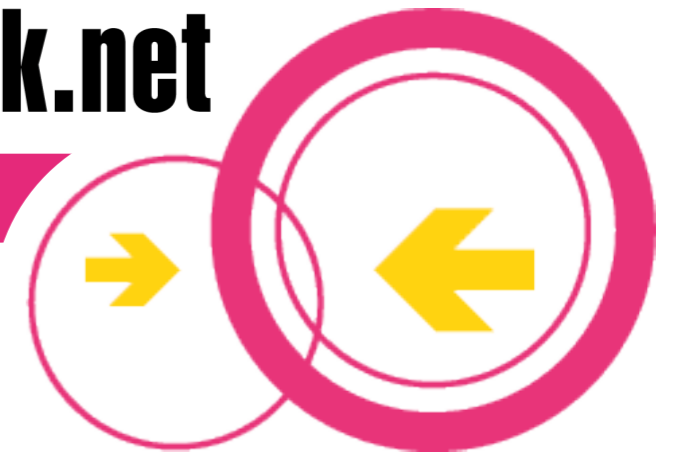
Adress Translation

- Original: 192.168.1.2 -> 192.168.2.2
- Encapsulated: ::ffff:192.168.1.2 -> ::ffff:
192.168.1.2



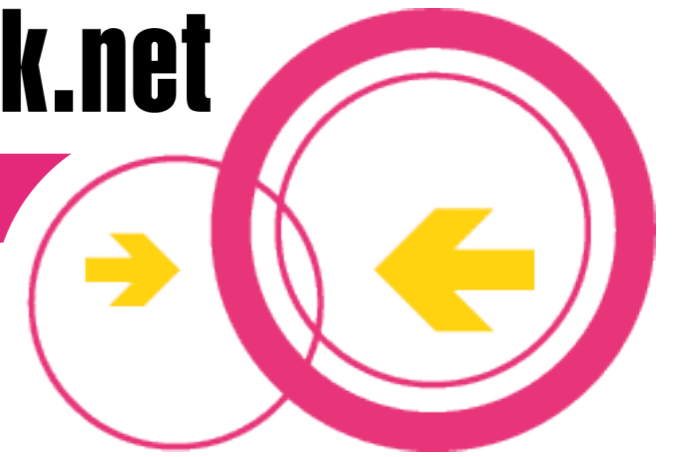
Niit mesh





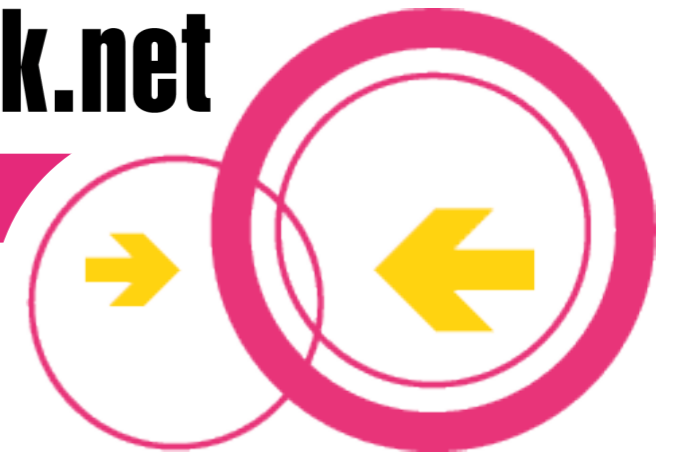
Can you show me?

- Niit firmware for atheros SoC
- `git://dev.dd19.de/pub/niit`
- `git://dev.dd19.de/pub/niit-wizard`
- Flash your Router now, lets do some hands on:
<https://dev.dd19.de/~alx/alx-niit/>



Future

- 26c3, test it
- play with AHCP
- IPv4 gateway tunnel
- Loose source routing instead?
- ipv6 prefix delegation via AHCP and asymmetric ipv6 in ipv6 tunnel



Thanks to

- lynxis from c-base for coding niit.o
- nbd from OpenWrt for mentoring lynxis
- jow from Freifunk Leipzig for the setup wizard.
- many other who contributed