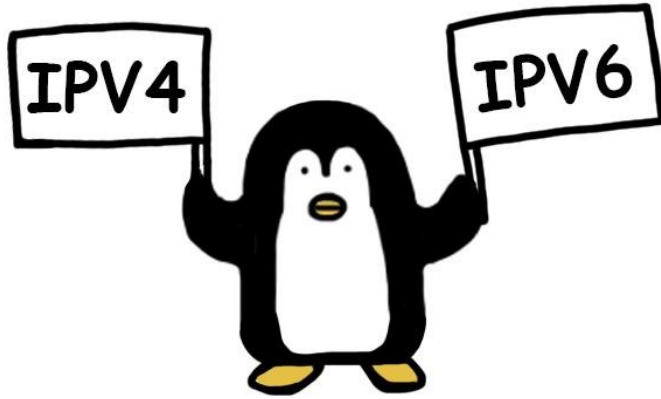


# When to turn off IPv4?



**Start today.**

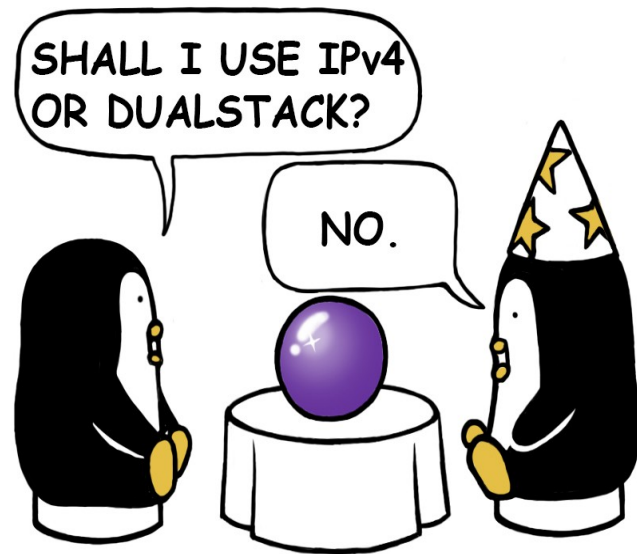




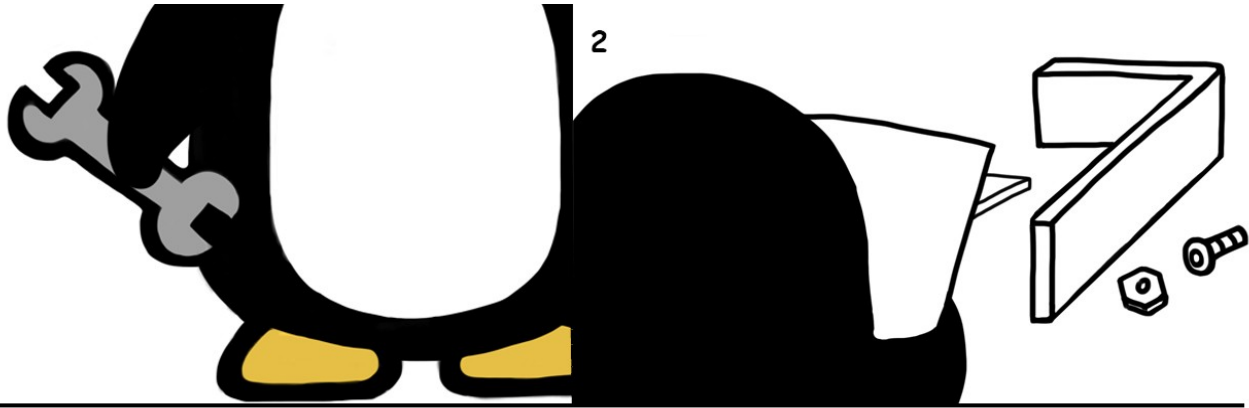
**Using IPv4 or Dualstack?**

# You can't use IPv4 or Dualstack

- There is no public IPv4 left in RIPE and ARIN region
  - Using IPv4 supports the Internet imbalance
- NAT prevents direct connections
- It's cumbersome to use and organise
  - Network size = /24, /23, ... ??
  - Dualstack = dual complexity
- Conclusion
  - Avoid IPv4 where you can



1



2

3

LET'S BUILD IPv6-ONLY NETWORKS!

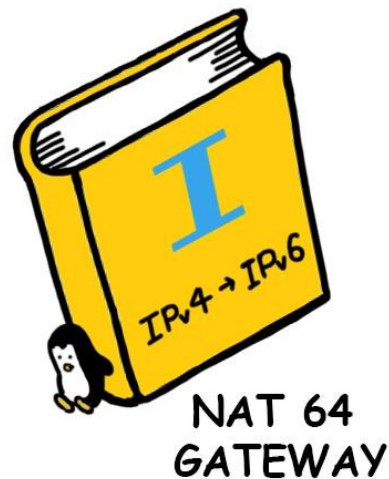


[datacenterlight.ch](http://datacenterlight.ch)

# Running IPv6 only networks?

# You can use IPv6 only networks

- Access to the legacy Internet via DNS64/NAT64
  - Breaks IPv4 only IPsec, but you should not use that anyway.
- Simplifies network design
  - No dualstack complexity
  - Addresses and networks are cleanly organised
- Equipment works
  - If \$vendor firmware is broken, use OpenWRT.



# Switching to IPv6 only

- Future safe
- Not pouring resources into a sinking ship
- Saving money and time
- Enabling new use cases
- Simplifying the network
- Bringing back the fun into networking

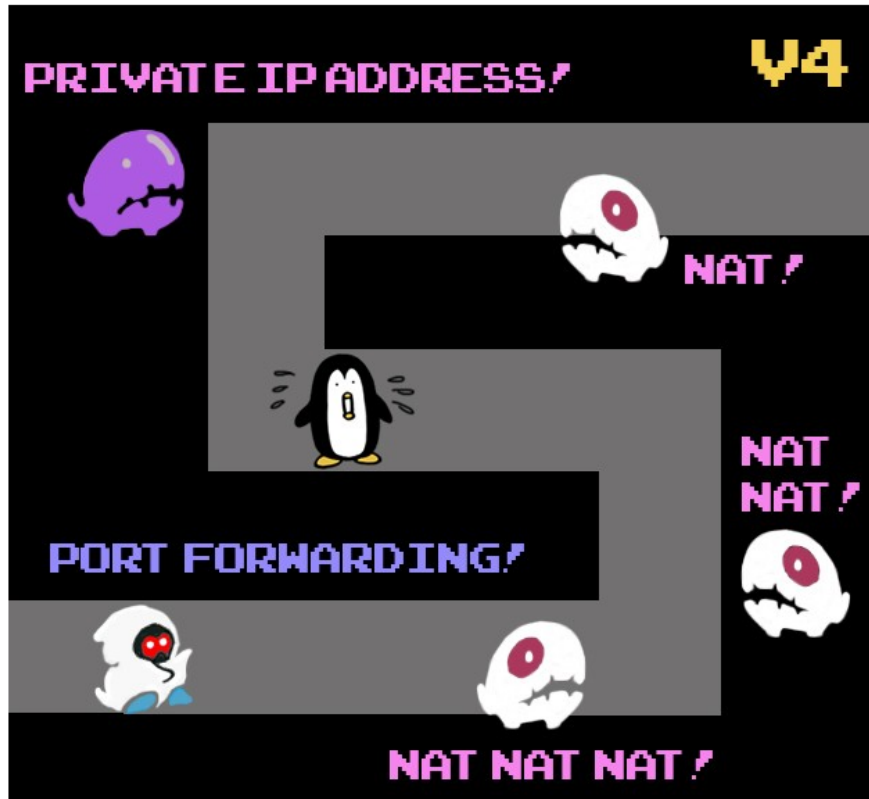
# What does it take to turn off IPv4?

- Get an IPv6 block
- Define your initial set of networks, create /64s
- Setup new networks IPv6 only with a DNS64/NAT64 service
- Shutdown legacy IPv4 networks
- Forget about IPv4





# THE PENGUIN GAME



**Turn IPv4 off today.**

