

# We don't need IPv6 - An update

Jens Link, [jl@jenslink.net](mailto:jl@jenslink.net)

October 18, 2018

*"If IPv6 doesn't work you just turn it off. Nobody cares."*

# Internet Protocol Version 6: Dead or Alive?

*"[...] Finally, the paper declares IPv6 as a dead protocol and suggests to use newer available protocols in future."*

<https://arxiv.org/abs/1809.07836>

# Disadvantage of IPv6 Adoption

- Remembering Addresses
- More Internet Traffic
- Cost of the Upgrade
- Local Networking Changes
- Two IP Schemes

<http://www.ecmod.net/disadvantage-of-ipv6-adoption>

# What is this about

- State of IPv6 implementation - Or lack thereof

# What is this about

- State of IPv6 implementation - Or lack thereof
- Tried to find out if I can build Linux from Scratch on an IPv6 only host

# What is this about

- State of IPv6 implementation - Or lack thereof
- Tried to find out if I can build Linux from Scratch on an IPv6 only host
- Short answer: No

# What is this about

- State of IPv6 implementation - Or lack thereof
- Tried to find out if I can build Linux from Scratch on an IPv6 only host
- Short answer: No
- Started asking question about plans for IPv6 deployment

# What is this about

- State of IPv6 implementation - Or lack thereof
- Tried to find out if I can build Linux from Scratch on an IPv6 only host
- Short answer: No
- Started asking question about plans for IPv6 deployment
- Was under the impression that some people where actually working on it

- "Make sure that you use https" - Deutsch Bahn when asked about IPv6 in the ICE wireless

# New interesting answers

- "Make sure that you use https" - Deutsch Bahn when asked about IPv6 in the ICE wireless
- "We are always a little behind" - #weilwirdichlieben BVG (Berlin Public Transport)

# New interesting answers

- "Make sure that you use https" - Deutsch Bahn when asked about IPv6 in the ICE wireless
- "We are always a little behind" - #weilwirdichlieben BVG (Berlin Public Transport)
- "We never run out of IPv4 addresses" - Adult entertainment site

## Six month later - The negative side

- Somebody followed my advice: bzip.org has no IPv6 any more

# Six month later - The positive side

# Thanks

@twitterSupport - In a way not answering my question about IPv6 support was probably one of the most honest answers I got

- I stopped asking about IPv6

- I stopped asking about IPv6 (at least I try to)

- I stopped asking about IPv6 (at least I try to)
- people don't care

- I stopped asking about IPv6 (at least I try to)
- people don't care
- just playing <https://ipv6bingo.com/> is much easier

# Why? - A Friday in August (I)

- A friend asked to check the new wifi@db network at the station

# Why? - A Friday in August (I)

- A friend asked to check the new wifi@db network at the station
- Complete new network.

# Why? - A Friday in August (I)

- A friend asked to check the new wifi@db network at the station
- Complete new network. No IPv6.

# Why? - A Friday in August (I)

- A friend asked to check the new wifi@db network at the station
- Complete new network. No IPv6. Intentionally!

# Why? - A Friday in August (I)

- A friend asked to check the new wifi@db network at the station
- Complete new network. No IPv6. Intentionally!
- One reason given: "We don't know if RIPE will give us enough addresses"

# Why? - A Friday in August (II)

- noticed that \$website is hosted @github

## Why? - A Friday in August (II)

- noticed that \$website is hosted @github
- which wouldn't be a problem for me if \$website would be about rabbits and not for / by people with a focus on networking

## Why? - A Friday in August (II)

- noticed that \$website is hosted @github
- which wouldn't be a problem for me if \$website would be about rabbits and not for / by people with a focus on networking
- asked (some people say I was unfriendly)

## Why? - A Friday in August (II)

- noticed that \$website is hosted @github
- which wouldn't be a problem for me if \$website would be about rabbits and not for / by people with a focus on networking
- asked (some people say I was unfriendly)
- quit (including the IRC channels)

# Speaking of rabbits

```
dig aaaa www.kaninchen-baden.de +short  
kaninchen-baden.de.  
2a01:238:20a:202:1159::
```

# Reasons for adopting IPv6

- lack of IPv4 addresses

# Reasons for adopting IPv6

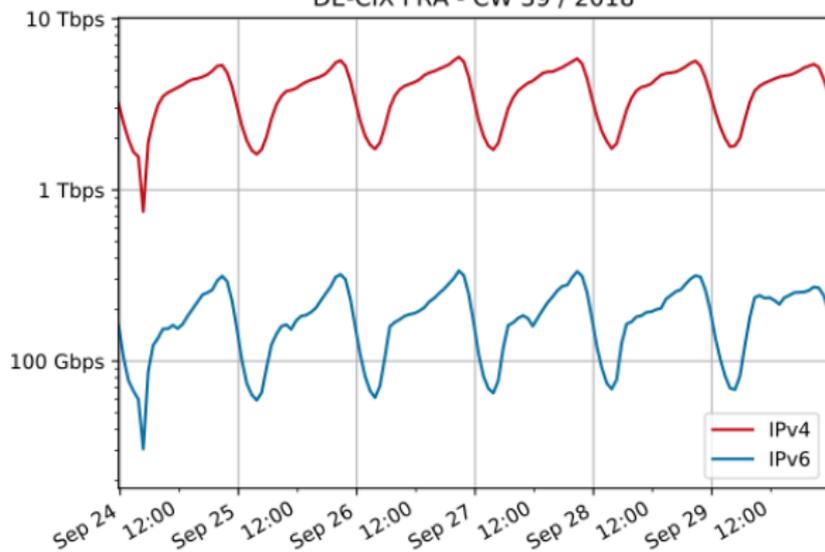
- lack of IPv4 addresses - That is lack of RFC1918 addresses

# Reasons for adopting IPv6

- lack of IPv4 addresses - That is lack of RFC1918 addresses
- Okay, some people suggest using 100.64.0.0/10

# IPv4 vs IPv6 @DECIX

DE-CIX FRA - CW 39 / 2018



DE-CIX Management GmbH

# Some questions still remain

- How can I tell people that IPv6 is important?

# Some questions still remain

- How can I tell people that IPv6 is important?
- When will there be more IPv6 than IPv4 traffic?

# Some questions still remain

- How can I tell people that IPv6 is important?
- When will there be more IPv6 than IPv4 traffic?
- When will things start to break?

# Suggestion for RIPE78



**Jens Link**

@QuuxBerlin



For [#RIPE78](#): Can we make the nat64 WLAN the default and everybody who really needs IPv4 has to open a ticket with the reason why? [#RIPE77](#)

10:26 AM - 15 Oct 2018

9 Retweets 18 Likes



↻ 9



18



# Thanks