

Infrastructure Review

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Core Infra

- Cisco ASR 1006 for routing, ACLs, NAT64, DHCP
- Handful Cisco C3750 Switches
- 3 * Arista 7050 Switches
- Two very old servers for all other services
- Three additional servers for running Proxmox Cluster
 - Running our video review and video live streaming management tools
- All monitoring done via Prometheus, Loki, and Grafana
- Data for Public Dashboards sent and persisted to VM outside ULB

Video

- Capturing with our video boxes
- See <https://github.com/FOSDEM/video> for details
- Send streams to render farm
- Send streams off-site for livestreaming and cutting into finished videos
- Semi-automated review and cutting process via <https://github.com/yoe/sreview>

Final Videobox.v2.docx

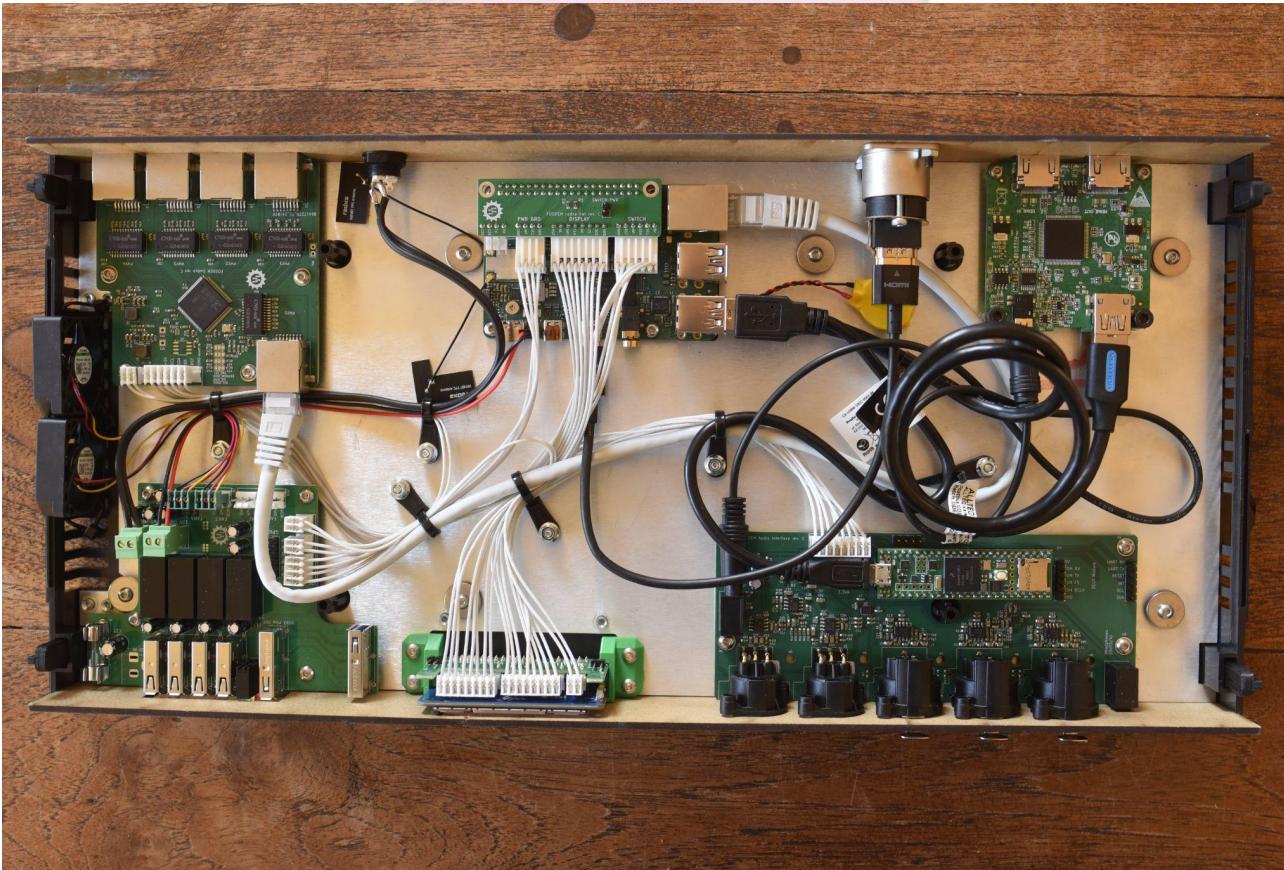


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Final Videobox.v2.docx



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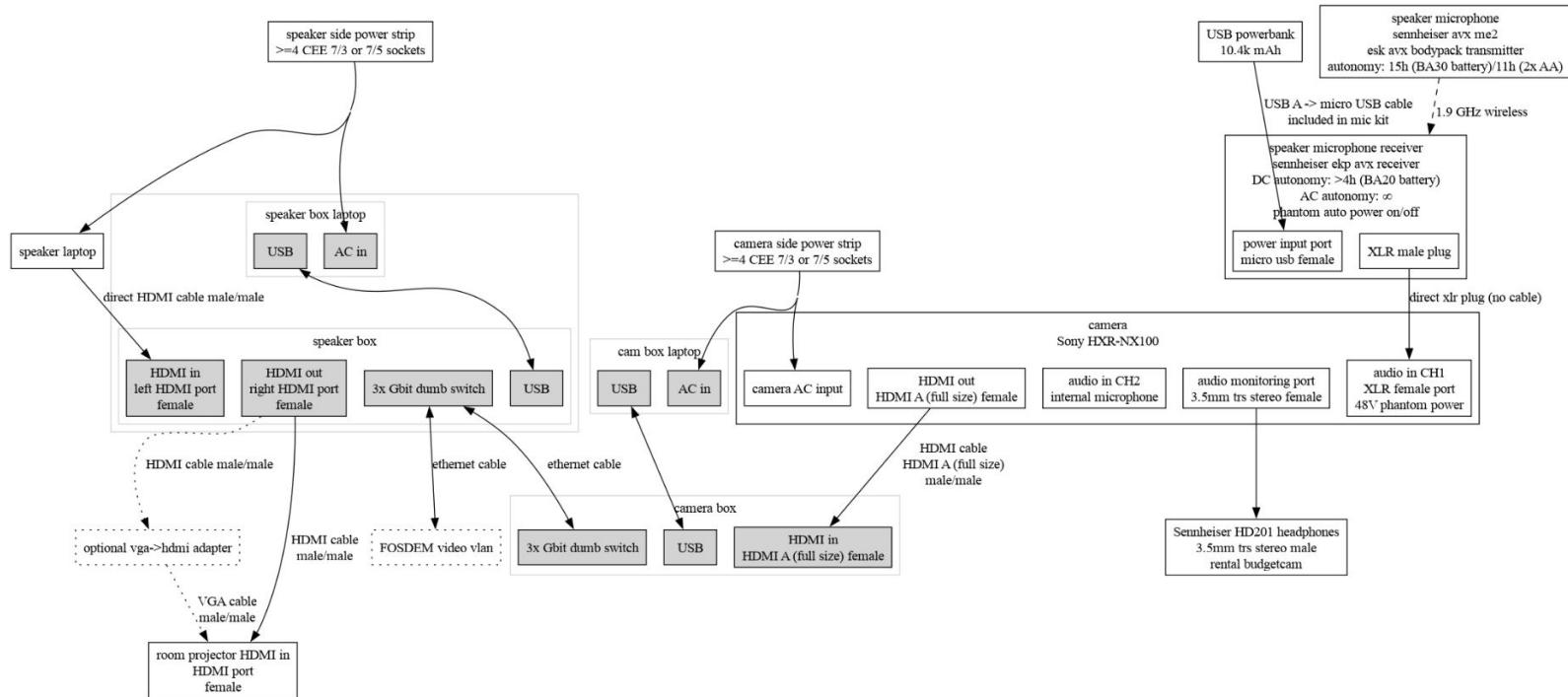
Final Videobox.v2.docx

More details?

Check out the talk from Martijn and Angel

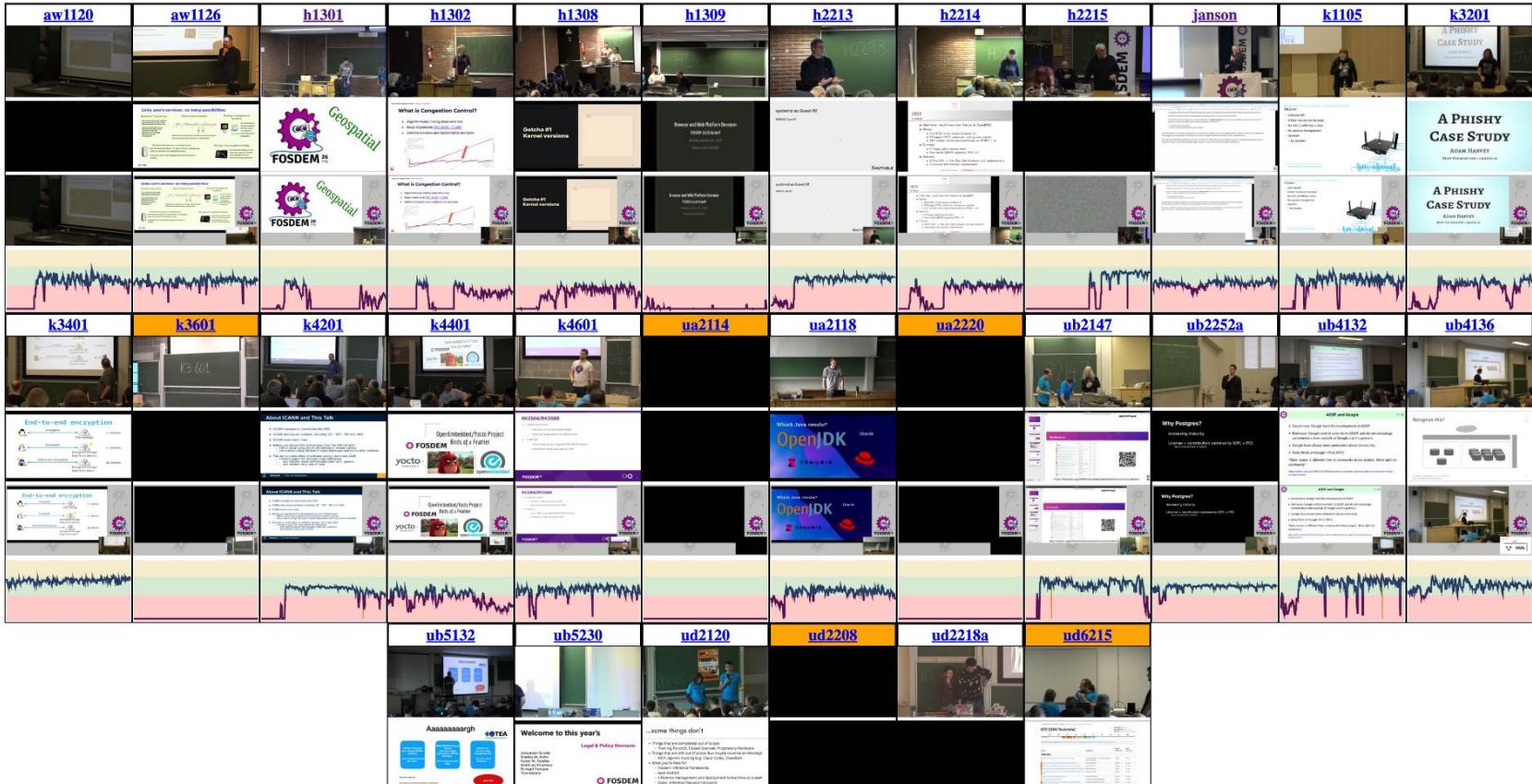


Example Cabling for a room



FOSDEM 2024 12 small rooms video cabling setup:
aw1120, aw1121, aw1125, aw1126, h2213, k2214, k3201, k4201, k4401, k4601, ud2119

Buildings: All aw h j k ua ub ud Choose



[home](#) | Room k3401

Room Status:

side-by-side presenter

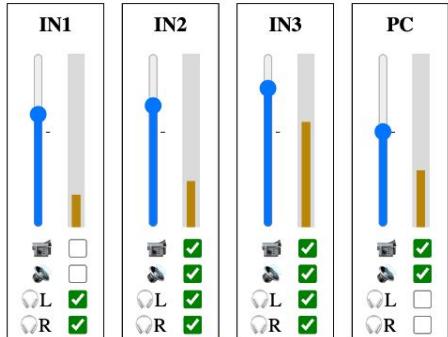
side-by-side slides

fullscreen presenter

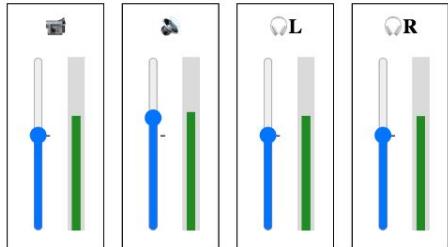
fullscreen slides

Mixer on box56.video.fosdem.org; [Grafana](#)

Inputs (pre-fader)



Outputs (post-fader)



Stream



Slides

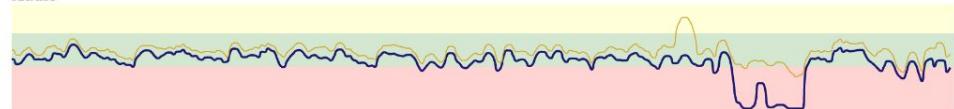


Join my network!

- fediverse/mastodon: @bogo@hapyr.com
- web: Talkweb.eu
- mail: bogomil@talkweb.eu (PGP)



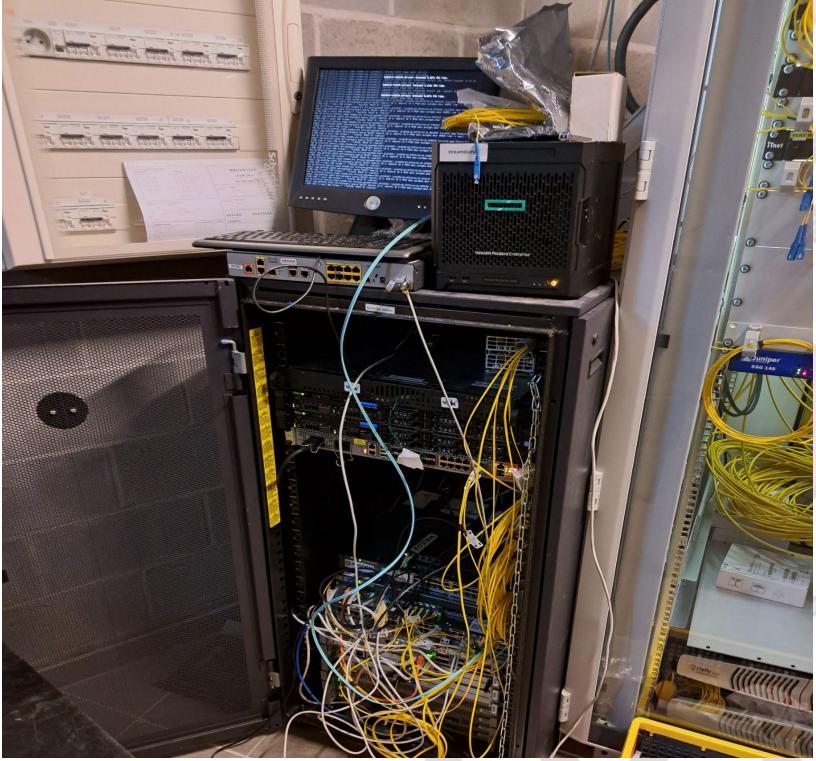
Audio



Cambox box47.video.fosdem.org

Slidesbox box56.video.fosdem.org

Render Farm 2023 Edition

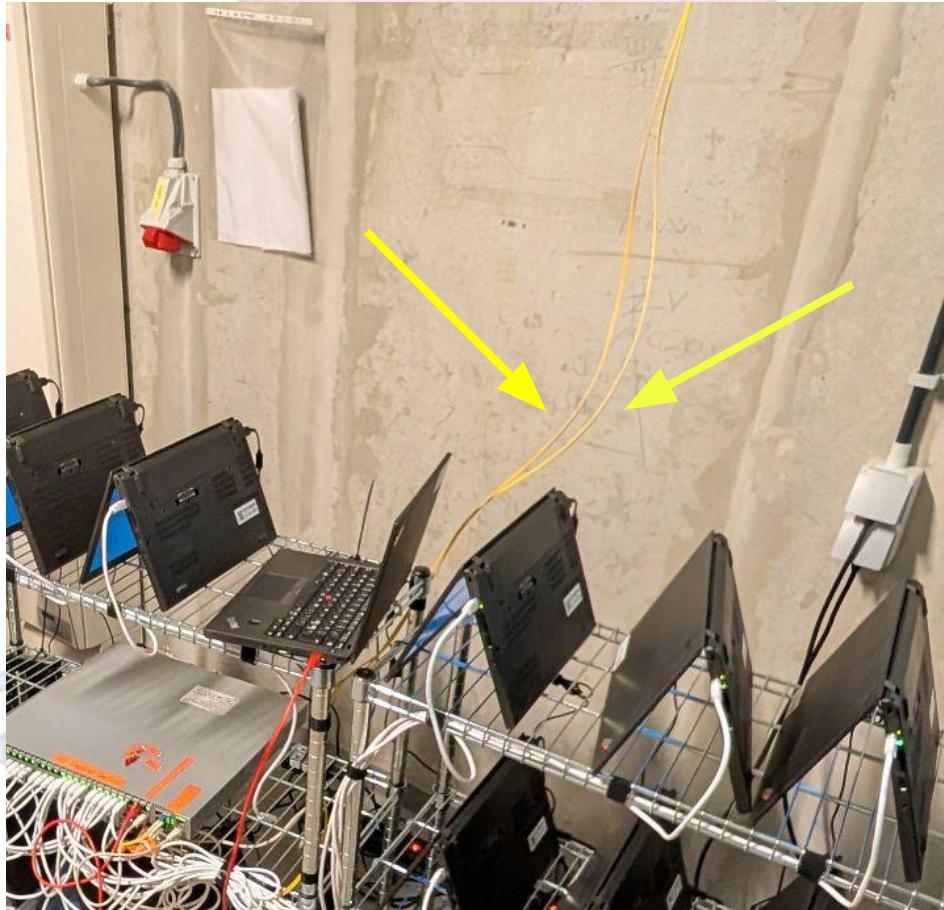


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Render Farm 2024-2026 Edition



Render Farm 2024-2026 Edition



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rg

Timelines

Installation of router

2016: Friday

2017: December

2018: December

2019: December

2020: December

2023: January

2024: January 24th (new 10g uplink)

2025: January 6th

2026: January 9th

Network up and Running

2015: Saturday 5:00

2016: Friday 19:00

2017: Friday 17:00

2018: Friday 12:00

2019: Thursday, last hiccups fixed Fri. 19:00

2020: Friday 18:00

2023: Friday 20:20

2024: Friday ~14:30

2025: Wednesday 16:00, last hiccups fixed Fri 12:20

2026: Friday 10:43

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Timelines

Monitoring

2016: Saturday 12:00

2017: Saturday 09:00

2018: January

2019: January

2020: January (2019!)

2023: January 13th , kept it running ...

2024: Immediate ;)

2025: Jan 13th, 2023 ;)... see a pattern here?

Video

2016: Saturday 11:30

2017: Saturday 09:30

2018: Saturday 08:30

2019: Friday 21:00

2020: Friday 19:00

2023: Friday ~22:00

2024: Friday 23:00

2025: Friday 20:30

2026: FriYaY

Redoing our setup for 202(4|5)

Plan was made to replace the old servers with a cluster onsite

Migration away from the servers still ongoing, first VMs running and giving you DNS64 and providing monitoring

With the new cluster we also needed more bandwidth for Software Defined Storage

Replaced the old stacked switches with 2 “new” switches (Build date: 2012-07-25) that now do MLAG - got rid of Spanning tree in the setup

.... still migrating workloads to the new cluster

Redoing our setup for 2026

2023: Plan was made to replace the old servers with a cluster onsite

Migration away from the servers **DONE**.

With the new cluster we also needed more bandwidth for Software Defined Storage

Replaced the old stacked switches with 2 “new” switches (Build date: 2012-07-25) that now do MLAG - got rid of Spanning tree in the setup

Finally 🤎

Hickups 2026

Sat. 11:37 FOSDEM wifi network experienced issues with DNS lookups

- Issues with upstream DNS resolvers & NAT64
- Changed DNS announcement to external instead of internal
- Changed NAT64 to offsite as well
- Reconfigured internal Upstream DNS to Freifunk Munich provided one
- After a few fixes, updates, reboots over two hours: changed DNS announce back to our internal hosts with new upstream

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Hickups 2026

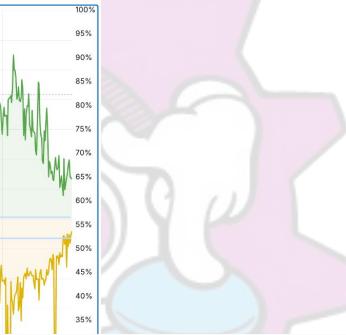
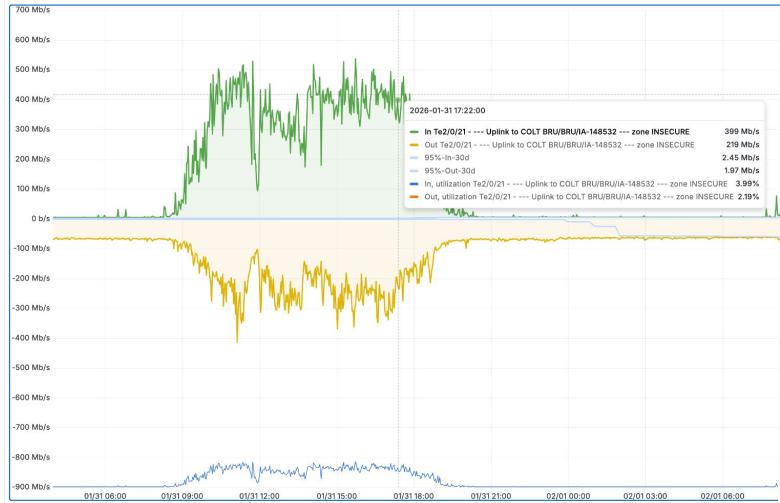
Shoutout to the NOC team of ffmuc.net for helping out here!

Did you know, ffmuc is also a listed european alternative (<https://european-alternatives.eu/product/ffmuc-dns>)



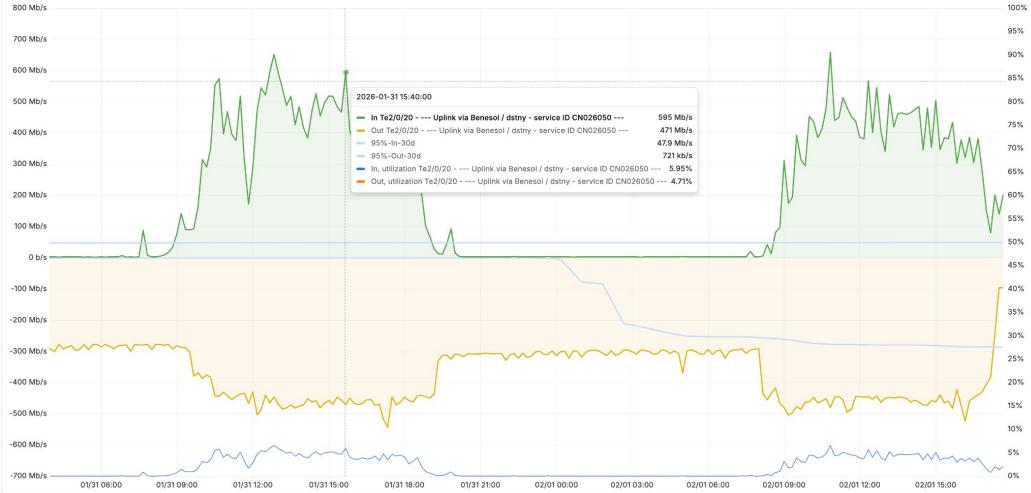
Uplinks

Bits - Te2/0/21



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Bits - Te2/0/20



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Clone our Conference

- Clone our Infrastructure: <https://github.com/FOSDEM/infrastructure>
- Check out our video setup: <https://github.com/FOSDEM/video/>



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Future outlook

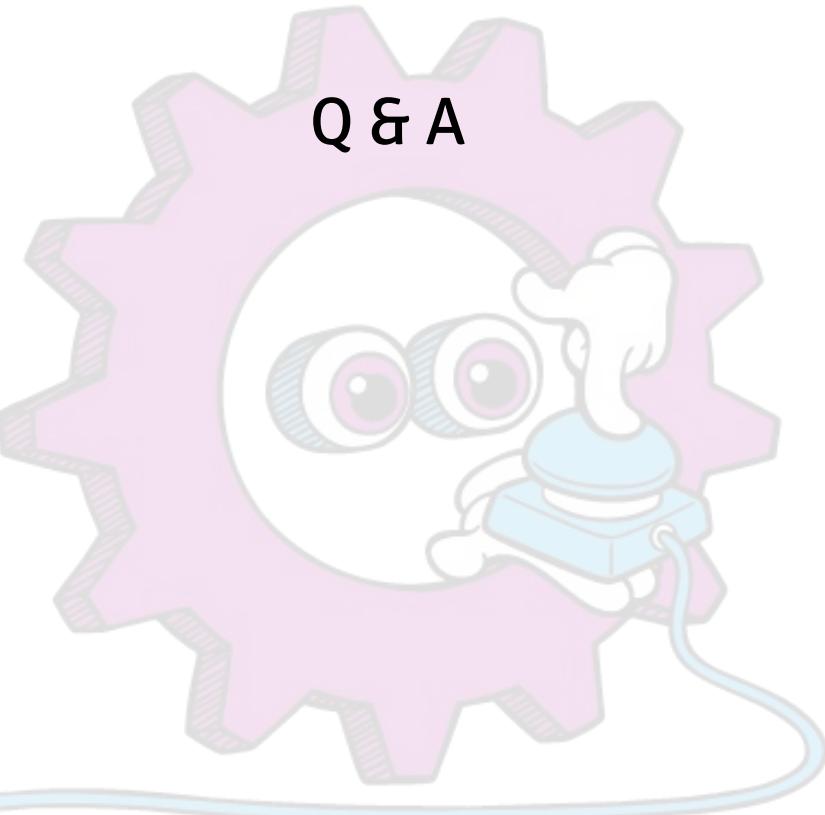
- Our ASR is end-of-life, -support, and -everything
- We kinda like Open Source...
- Plan1: Replace ASR with
 - Network hardware for core distribution (likely Arista)
 - Switch BGP session, routing, and NAT64 to Open Source software
 - Have “proper” network hardware as backup for BGP & routing

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Future outlook

- Our ASR is end-of-life, -support, and -everything
- We kinda like Open Source...
- Plan1: Replace ASR with
 - Network hardware for core distribution (likely Arista)
 - Switch BGP session, routing, and NAT64 to Open Source software
 - Have “proper” network hardware as backup for BGP & routing
- Plan2: IPv6-**only** on the main network
 - Change the name of the dualstack ESSID every year to prevent auto-reconnect
 - Make a third ESSID with a password (“FOSDEM”..) so your traffic is encrypted

Q & A



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