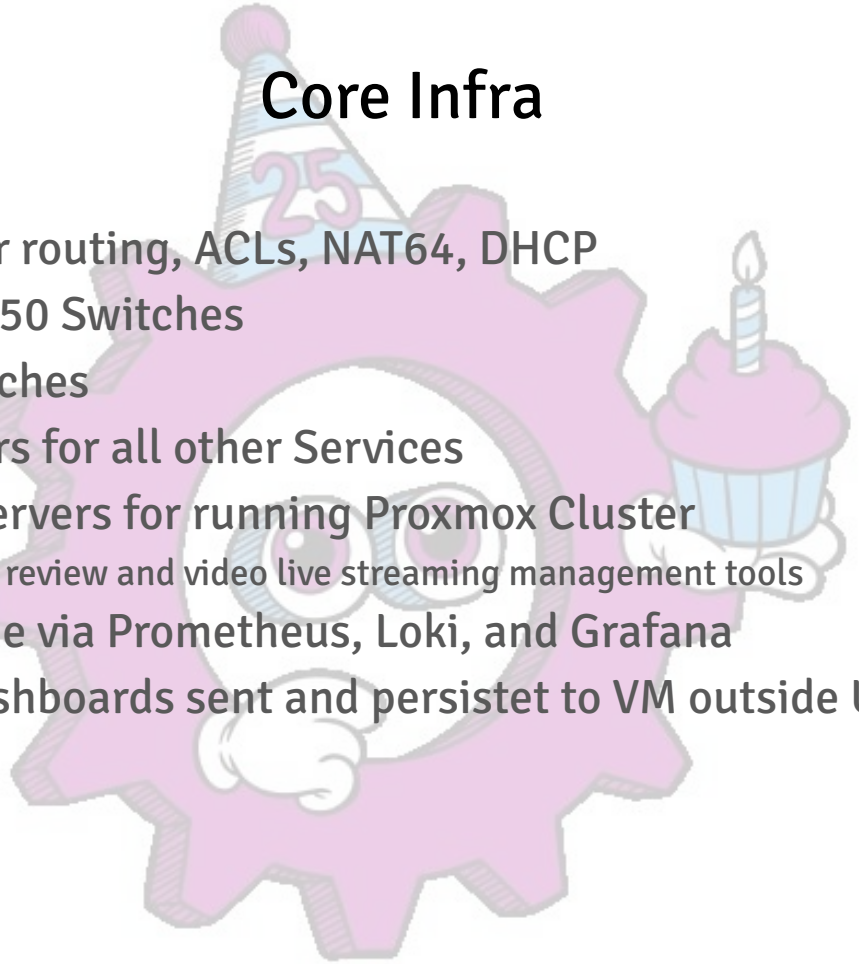
Infrastructure Review

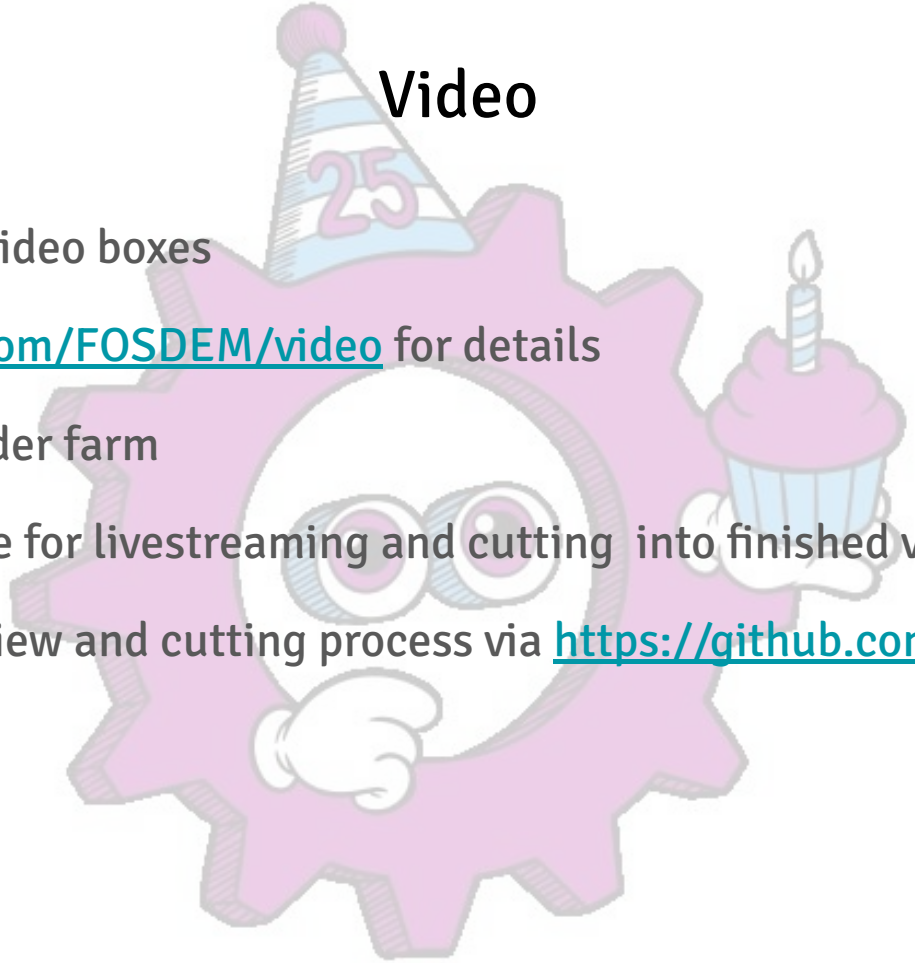
Richard “RichiH” Hartmann - Sebastian Schubert

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 persistet to VM outside ULB

Video



Capturing with our video boxes

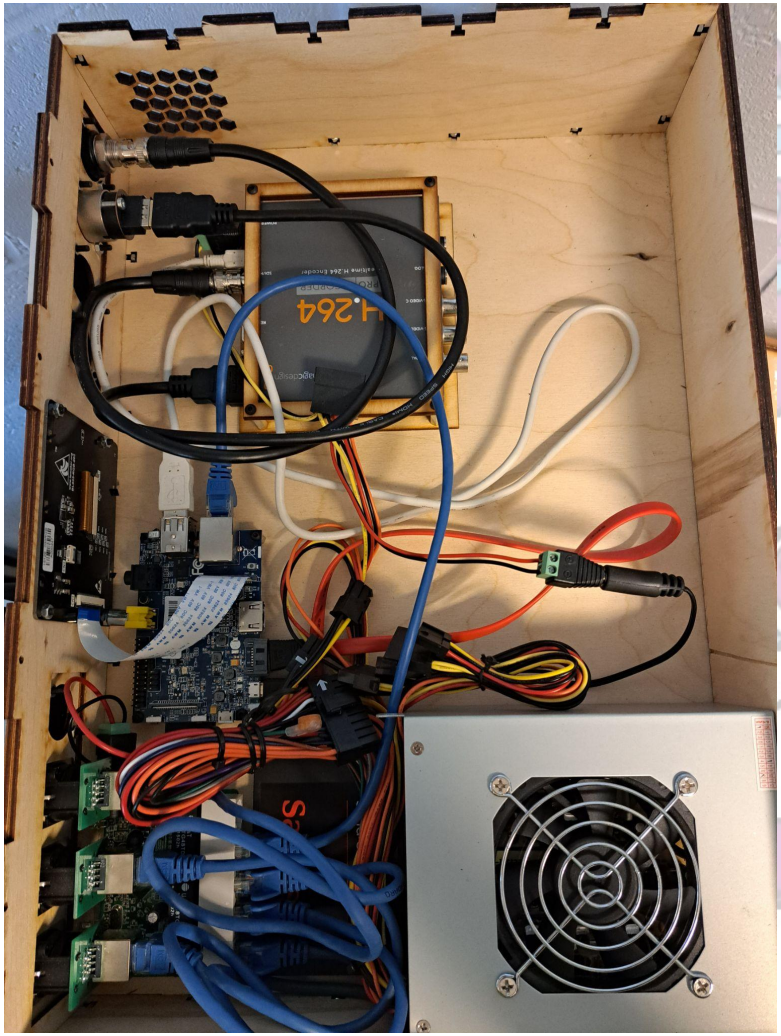
See https://github.com/FOSDEM/video for details

Send streams to render farm

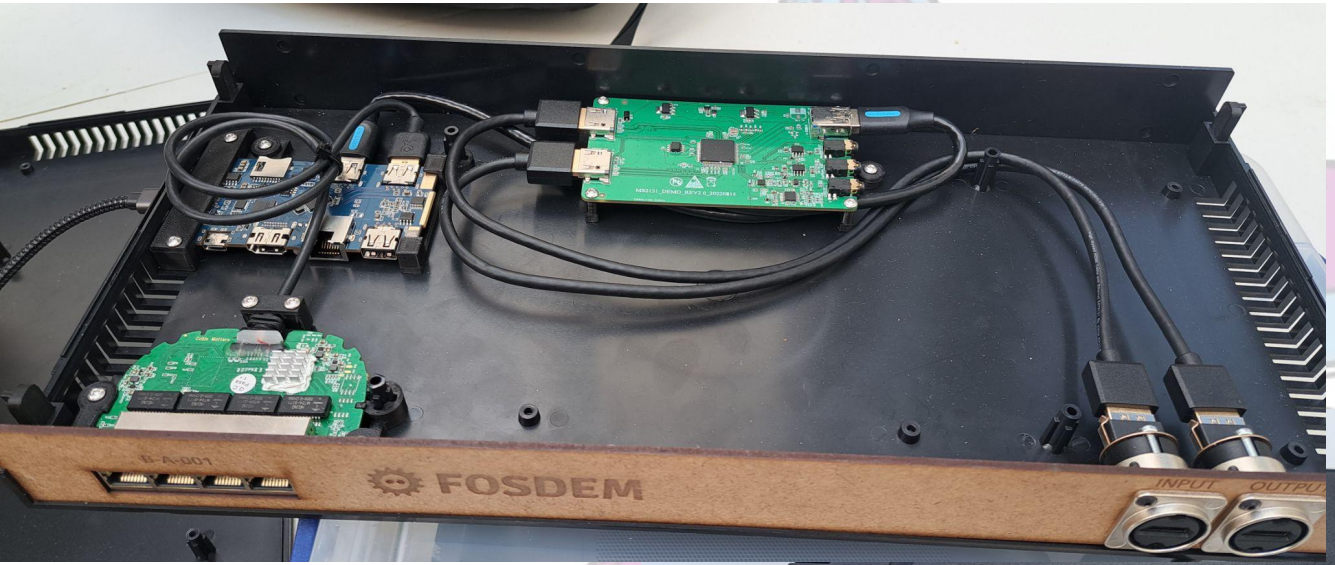
Send streams off-site for livestreaming and cutting into finished videos

Semi-automated review and cutting process via https://github.com/yoe/sreview

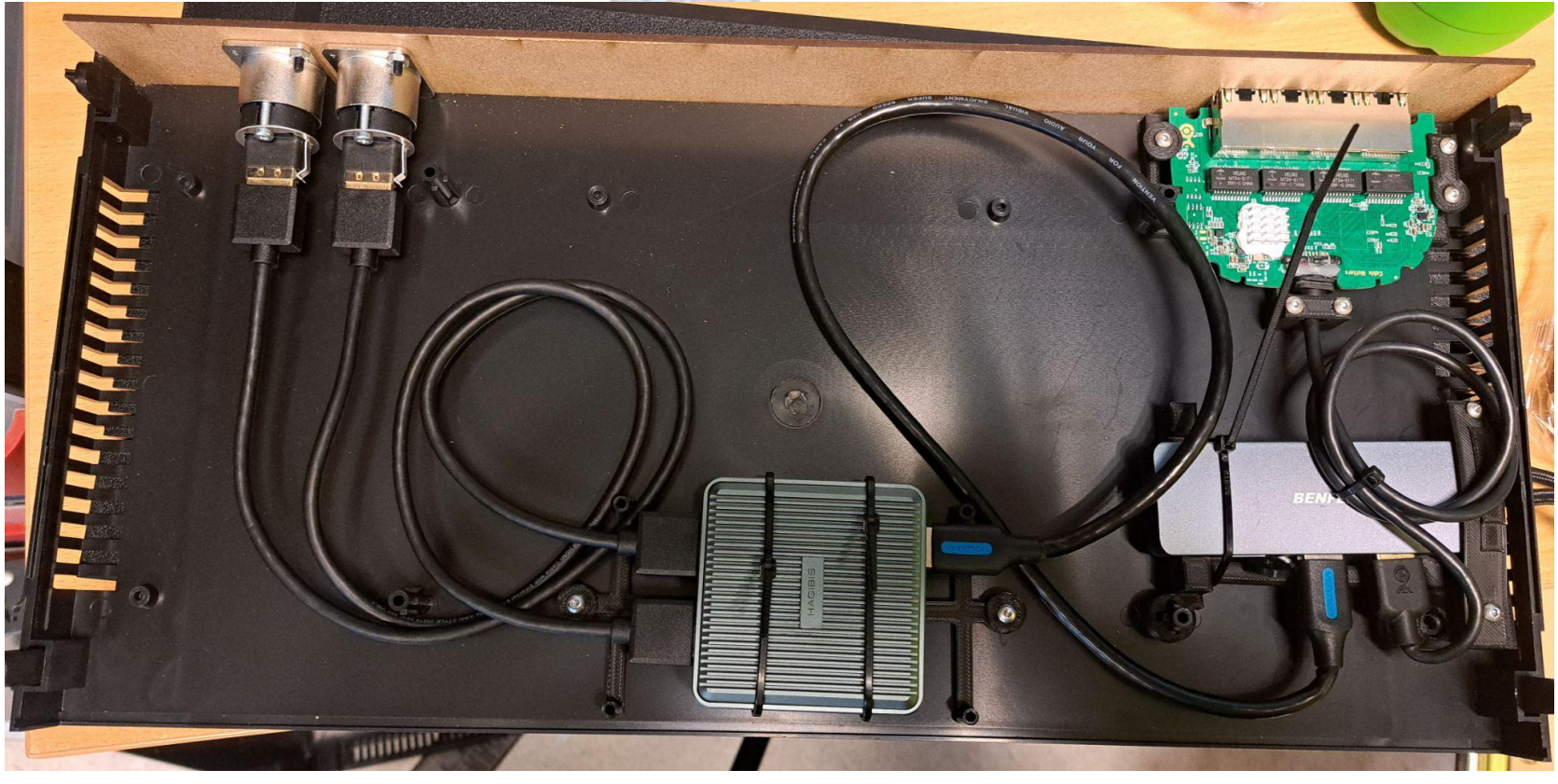
Video Boxes



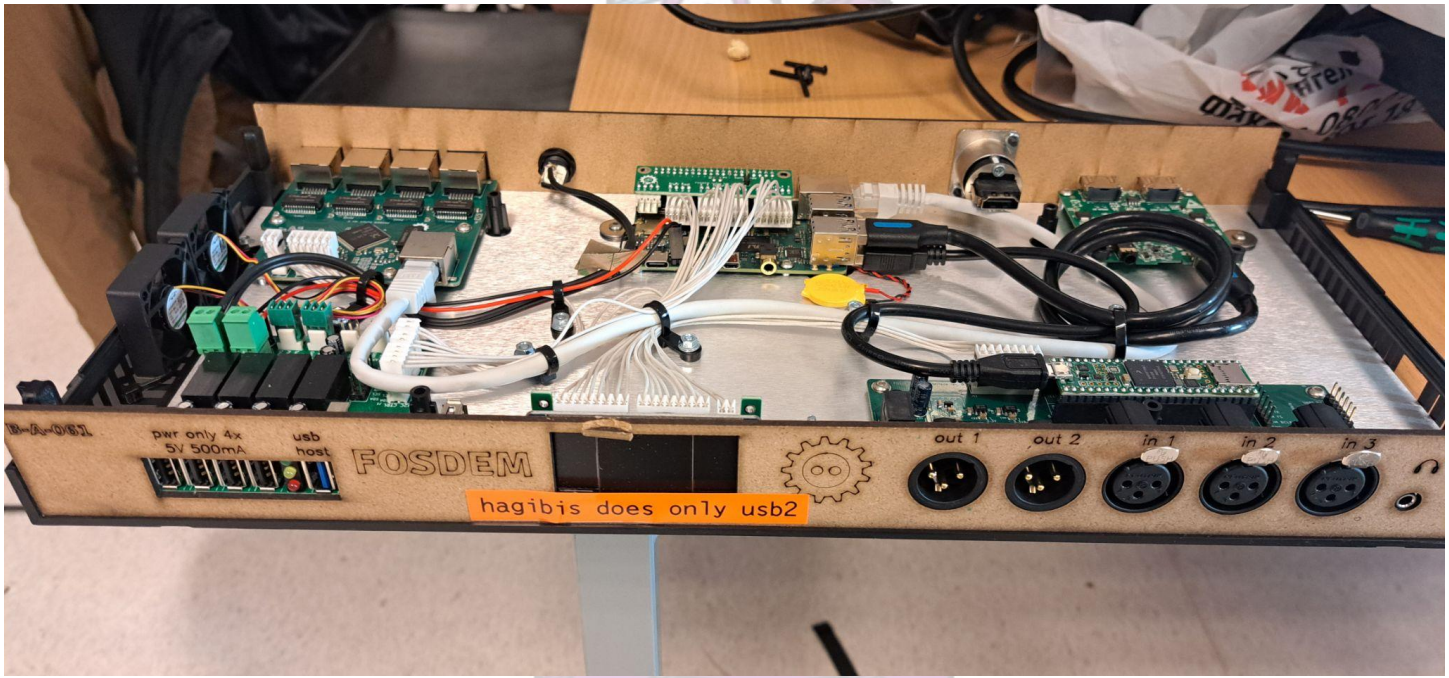
First Version of the new Boxes



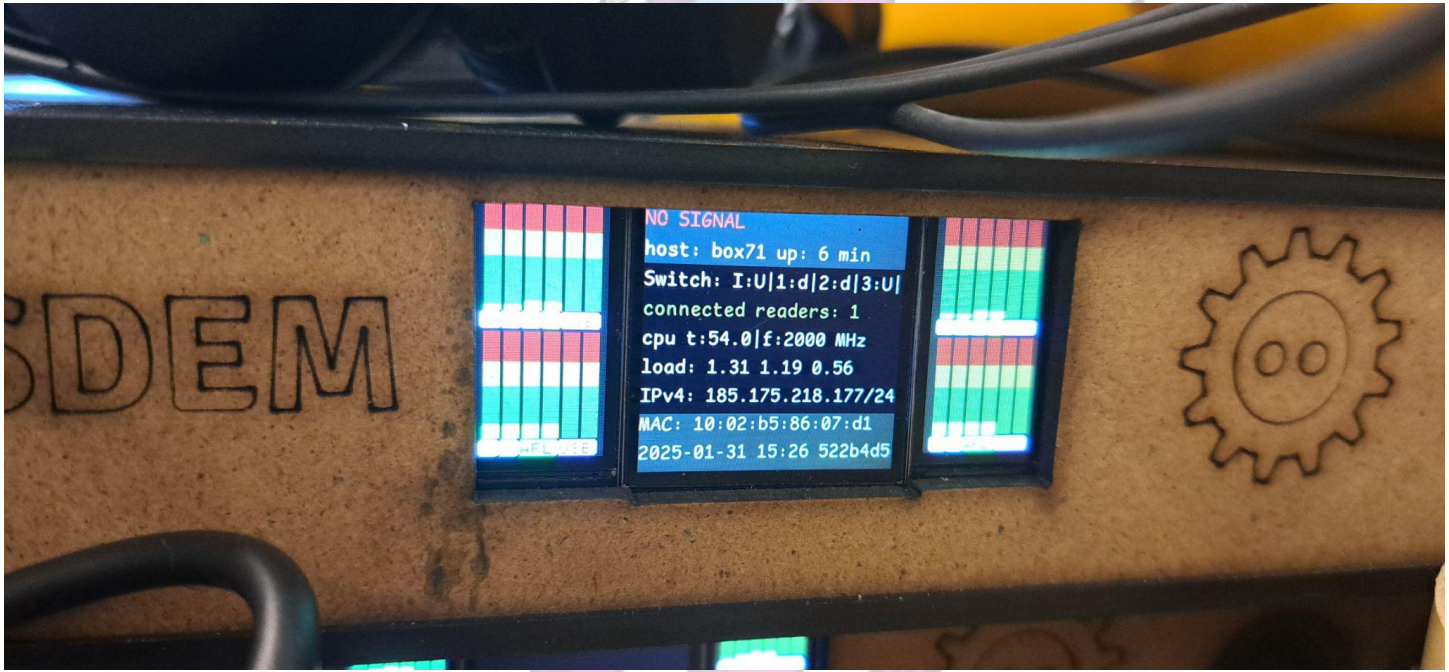
Final Videobox



Final Videobox.v2.docx



Final Videobox.v2.docx



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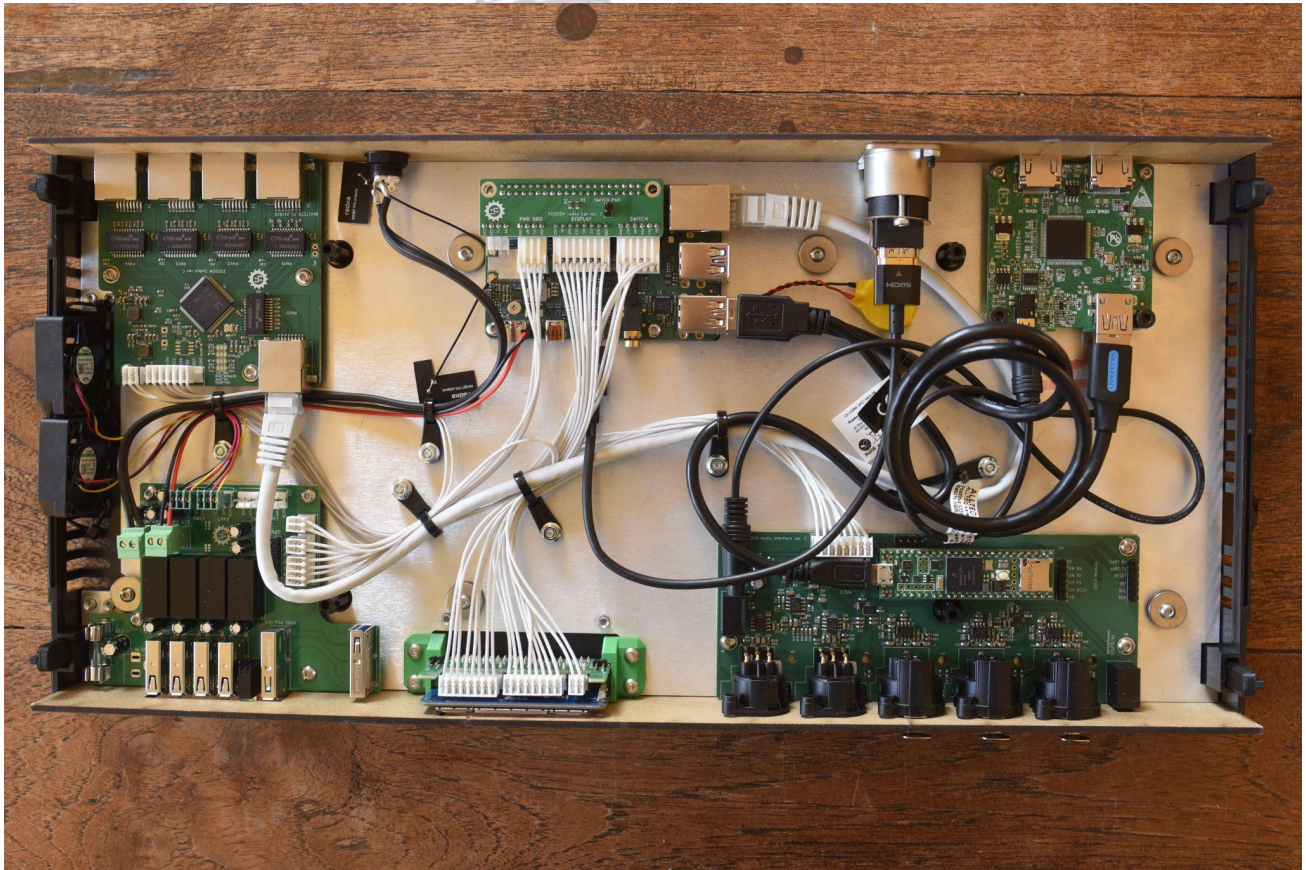
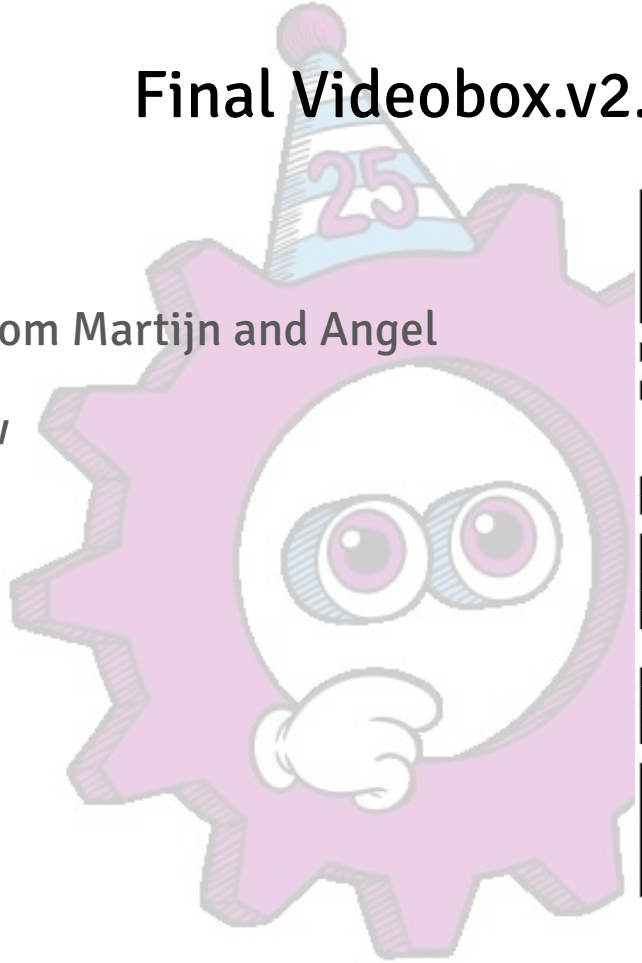


Final Videobox.v2.docx

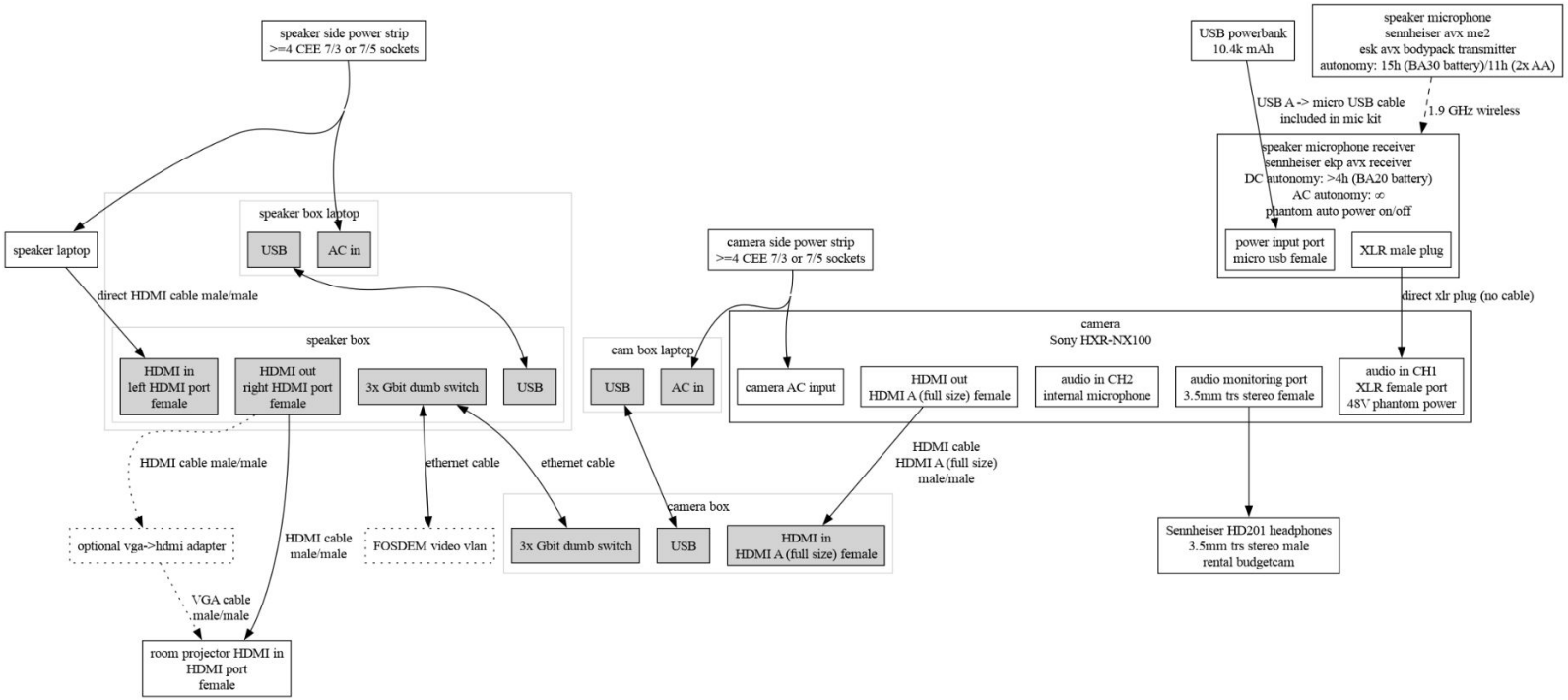
More details?

Check out the talk from Martijn and Angel

Happening right now

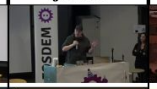
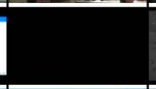
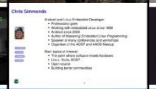
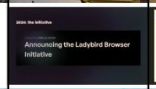


Example Cabling for a room

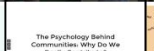
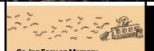


FOSDEM 2024 12 small rooms video cabling setup:
aw1120, aw1121, aw1125, aw1126, h2213, h2214, k3201, k3401, k4201, k4401, k4601, ud2119

Buildings: All ☑ aw ☑ h ☑ j ☑ k ☑ ua ☑ ub ☑ ud Choose

aw1120	aw1126	h1301	h1302	h1308	h1309	h2213	h2214	h2215	janson	k1105	k3201
											
											
cam: box93 sld: box86 vtp: voctop23	cam: box46 sld: box95 vtp: voctop1	cam: box17 sld: box100 vtp: voctop2	cam: box59 sld: box84 vtp: voctop3	cam: box03 sld: box08 vtp: voctop4	cam: box37 sld: box54 vtp: voctop5	cam: box16 sld: box07 vtp: voctop6	cam: box05 sld: box14 vtp: voctop7	cam: box79 sld: box41 vtp: voctop8	cam: box55 sld: box88 vtp: voctop9	cam: box67 sld: box48 vtp: voctop10	cam: box81 sld: box96 vtp: voctop11

k3401	k3601	k4201	k4401	k4601	ua2114	ua2118	ua2220	ub2147	ub2252a	ub4132	ub4136
cam: box65 sld: box98 vtp: voctop12	cam: box91 sld: box36 vtp: voctop30	cam: box99 sld: box38 vtp: voctop13	cam: box85 sld: box52 vtp: voctop14	cam: box69 sld: box10 vtp: voctop15	cam: box45 sld: box44 vtp: voctop16	cam: box47 sld: box62 vtp: voctop17	cam: box39 sld: box12 vtp: voctop18	cam: box43 sld: box80 vtp: voctop19	cam: box63 sld: box58 vtp: voctop20	cam: box51 sld: box40 vtp: voctop21	cam: box87 sld: box34 vtp: voctop29

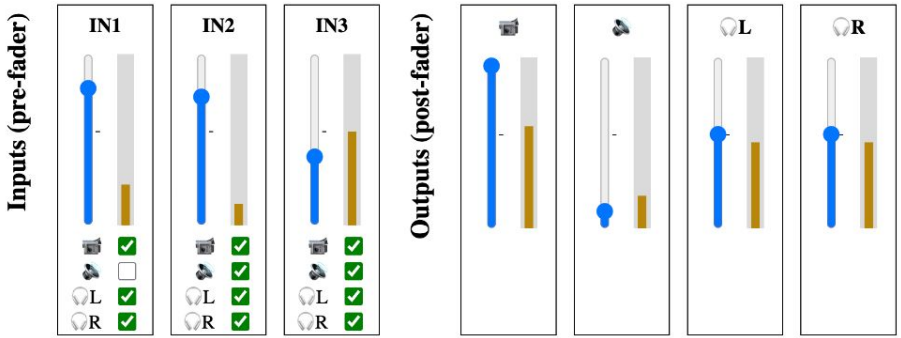
ub5132	ub5230	ud2120	ud2208	ud2218a	ud6215
					

Room ub2252a

Room Status:

side-by-side presenter	side-by-side slides
fullscreen presenter	fullscreen slides

Mixer on box58.video.fosdem.org; Grafana

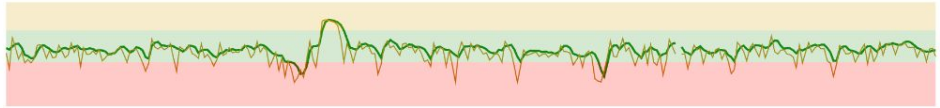


Stream

Camera

Slides

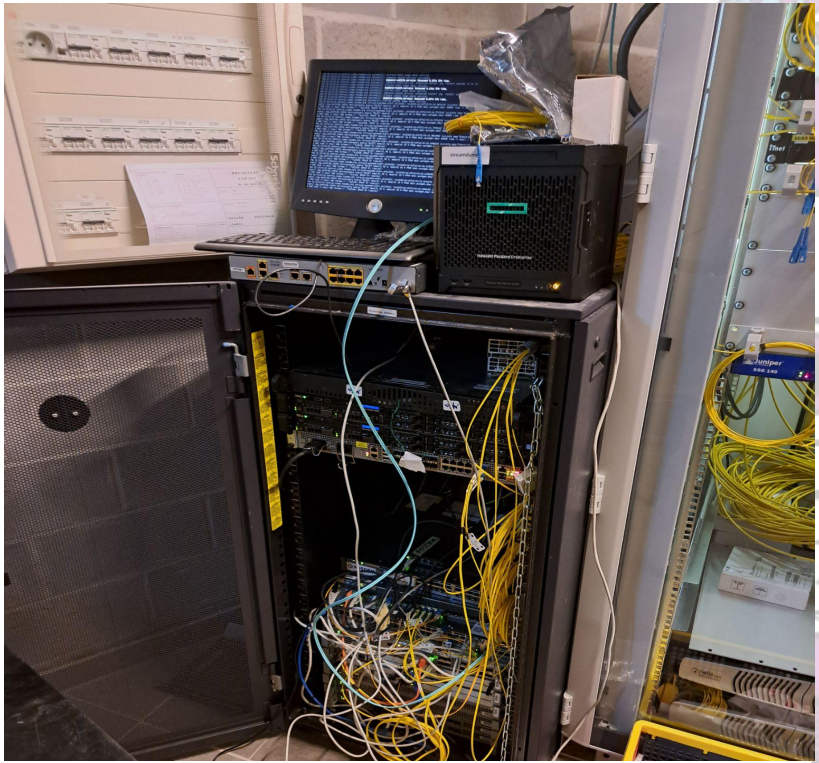
Audio



Cambox box63.video.fosdem.org

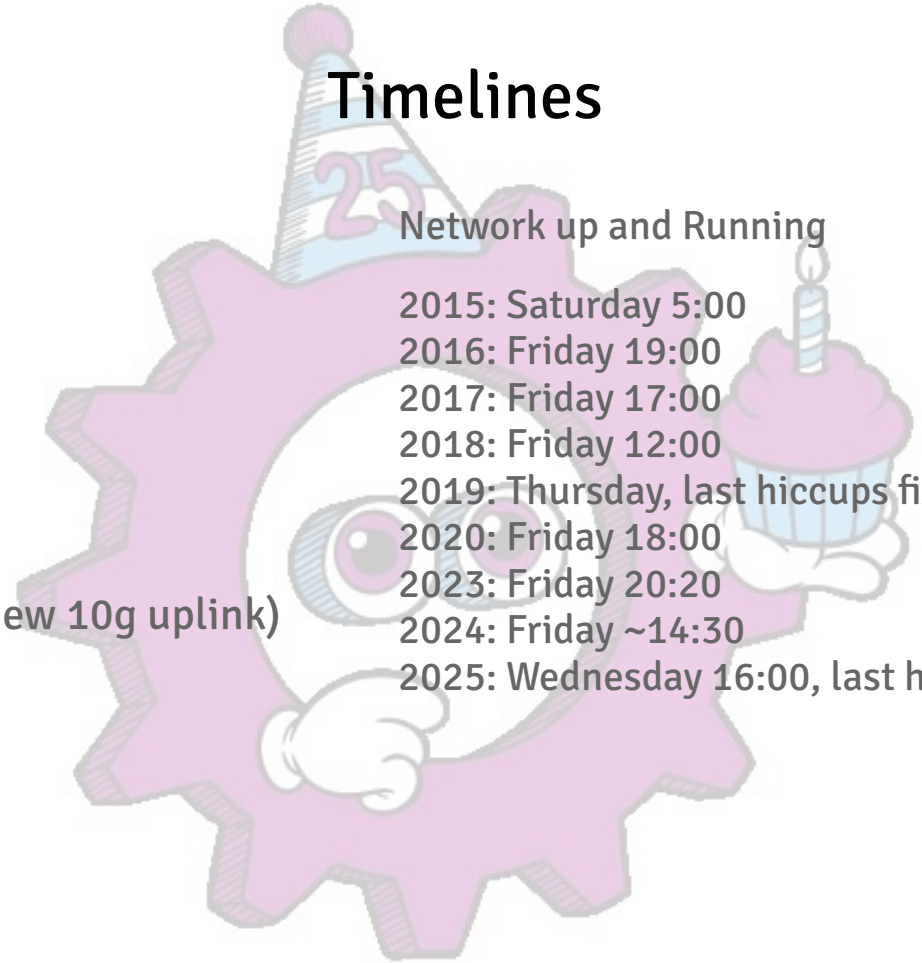
Slidesbox box58.video.fosdem.org

Render Farm 2023 Edition



Render Farm 2024-2025 Edition

Timelines



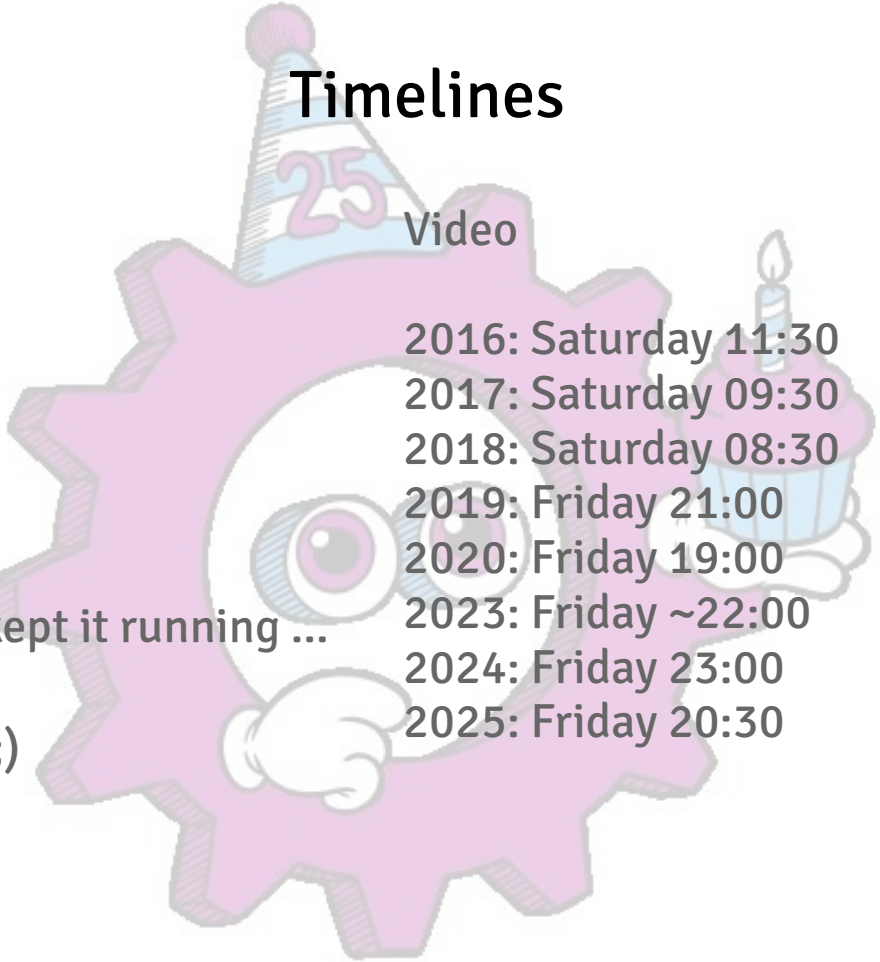
Installation of router

2016: Friday
2017: December
2018: December
2019: December
2020: December
2023: January
2024: January 24th (new 10g uplink)
2025: January 6th

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

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 ;)

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

Redoing our setup for 202(4|5)

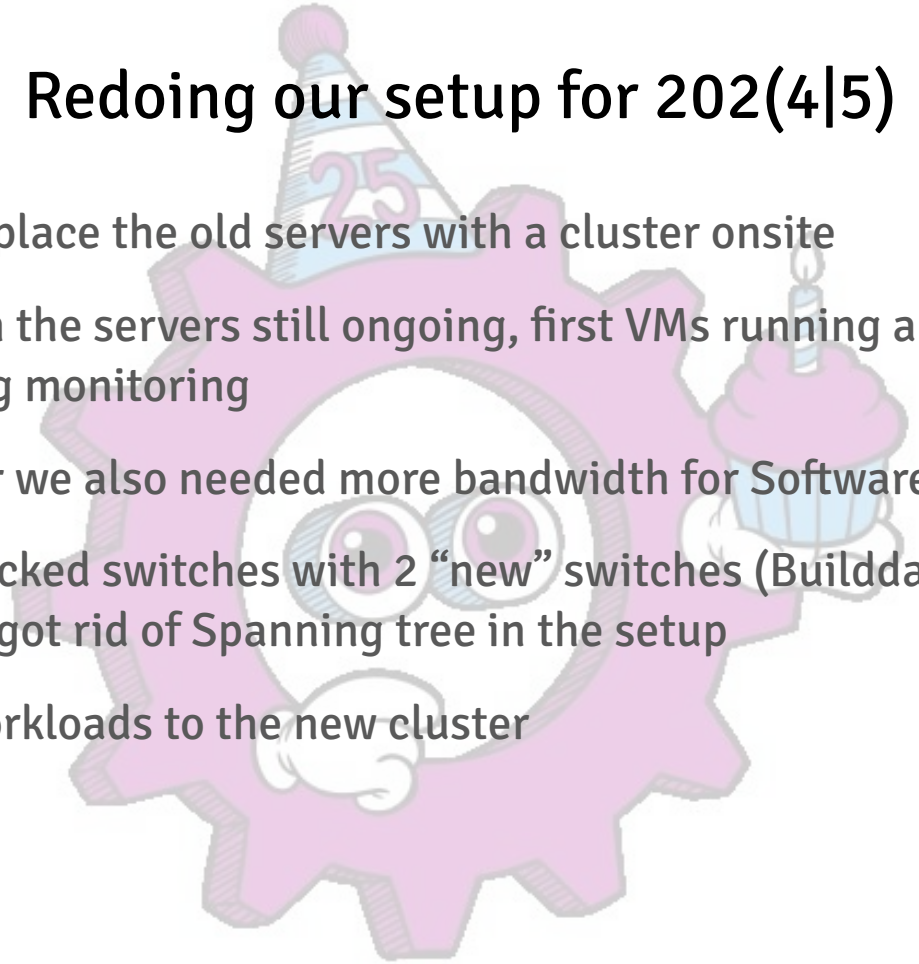
Plan was made to replace the old servers with a cluster onsite

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

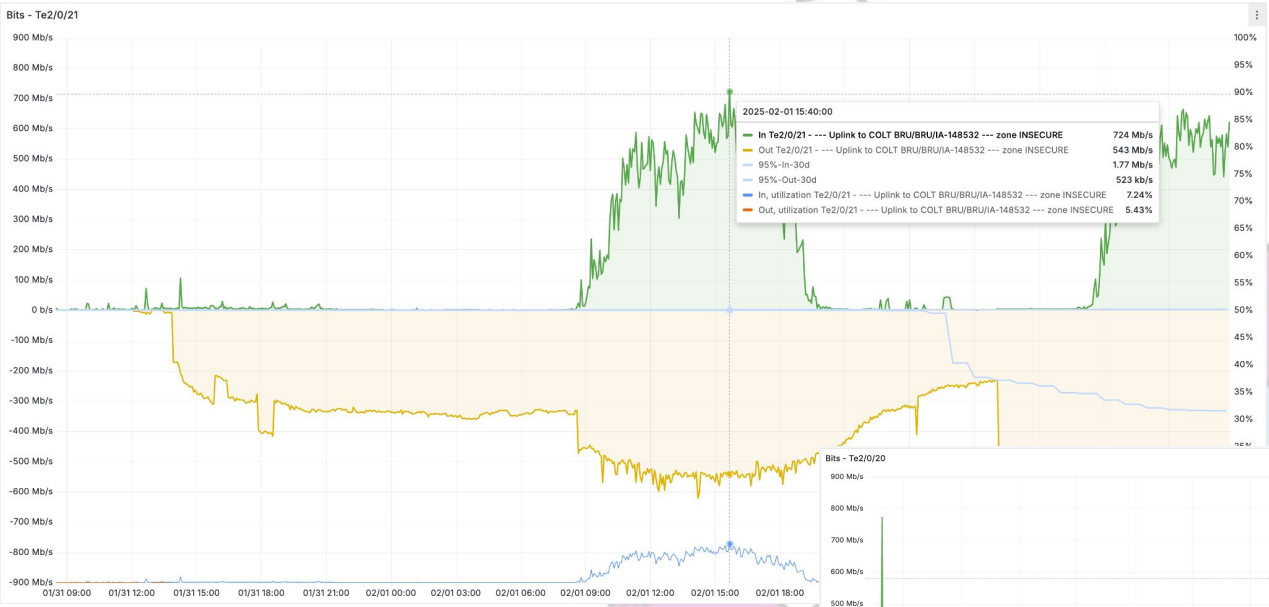
With the new cluster we also needed more bandwidth for Software Defined Storage

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

.... still migrating workloads to the new cluster



Uplinks



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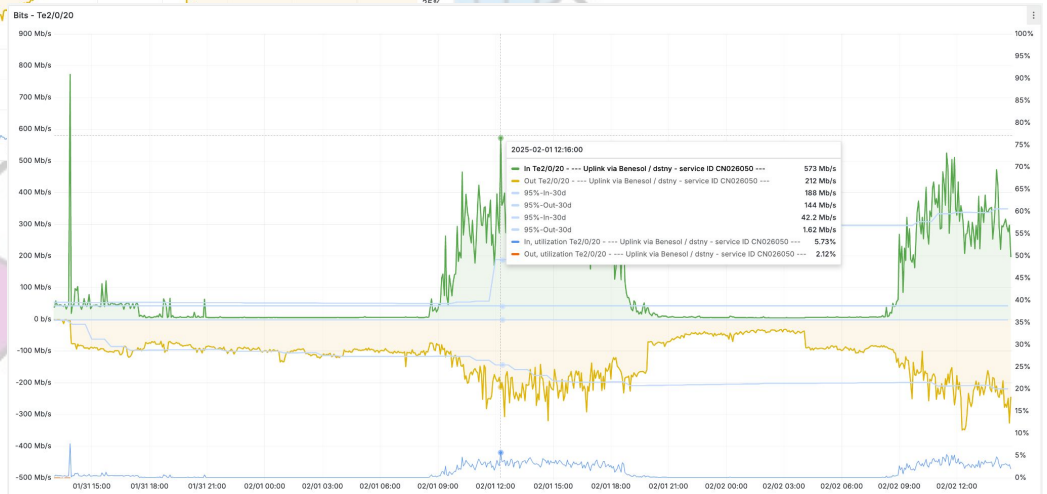
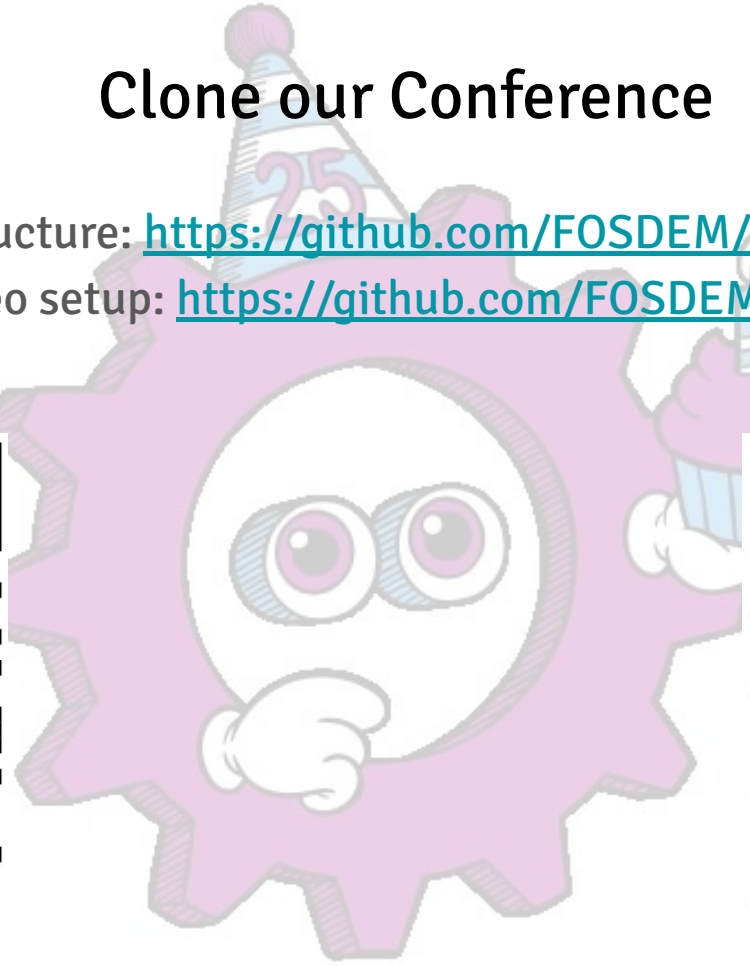


dstny

Clone our Conference

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



Q & A