

FOSDEM infrastructure review

We have become so good, this is basically last year's talk

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Repetition

- This is almost the same talk as last year
- Which is good!
- One minor thing...

IPv6 is here

- First year we had more IPv6-only clients than dual-stack clients
- FOSDEM-legacy carries a LOT more VPN traffic
- ..so those are probably stuck on v4 for VPN reasons

Silence before the storm?

- For the SECOND time in FOSDEM's existence, we have had time to sit down and breathe
- Staff was wary about the silence last year, but we kinda felt OK this time

Word of the conference: "boring"

- We reached a place of stability
- Our changes are now all evolutionary, not revolutionary
- Sleep levels are way up, and we like it that way

Core infra

- Cisco ASR 1006 for routing, ACLs, NAT64, DHCP
- Two servers for all others services, done via Ansible; will get SSDs after this event
- All monitoring with Prometheus & Grafana
- Data for public dashboard sent to, persisted with, and served by Cortex on Grafana.com

Video

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

Render farm



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Timelines

- Installation of router
 - 2016: Friday
 - 2017: December
 - 2018: December
 - 2019: December
- Network up
 - 2015: Saturday 05:00
 - 2016: Friday 19:00
 - 2017: Friday 16:00
 - 2018: Friday 12:00
 - 2019: Thursday, last hiccups solved on Friday 19:00

Timelines

- Monitoring
 - 2016: Saturday 12:00
 - 2017: Saturday 09:00
 - 2018: January
 - 2019: January
- Video
 - 2016: Saturday 11:30
 - 2017: Saturday 09:30
 - 2018: Saturday 08:30
 - 2019: Friday 21:00

Caveats

- Know your automation tools
- Debugging and fixing is very different from the traditional approaches
- The re-use of code and config makes you miss things; but we learned from 2018
 - 2018: FOSDEM 2017 background
 - 2018: Internally, our t-shirt tracker still thought it was 2017

Only new thing

- We will be using netbox as our CMDB going forward
- Try our monitoring:
`https://dashboard.fosdem.org`
- Clone our conference:
`https://github.com/FOSDEM/infrastructure`