The Infrastructure behind
The Document Foundation

- Alexander Werner and Florian Effenberger
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Hello, hello, is there anybody out there?

- **Alexander Werner**
  - Python hacker, Puppet fan
  - involved in infrastructure from day one
- **Florian Effenberger**
  - one of the founders of TDF and chairman
  - involved in infrastructure from day one
  - focus on web and mail servers

Rock around the clock!

- infrastructure...
  - ...is best when you don't recognize it
  - ...is required 24x7
  - ...has to be dynamic, scaleable and stable
  - ...enables the community to do magic
- "provides the playground"

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It takes two...

- hosted directly at TDF
  - mailing lists, websites, wiki, Pootle, help, MirrorBrain, rsync, CMS, WebDAV, OTRS, blog planet, Torrent tracker, AskBot, forum, Gerrit, extensions, OpenGrok
  - 7 servers and up to 29 VMs
- external services
  - FreeDesktop.org: git, BugZilla, mailing lists
  - blog, VoIP PBX, mirror network

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- team of **15** administrators from **5** countries
- **7** TDF servers, up to **29** VMs, plus external services
- TDF alone handling up to **10 TB** of monthly traffic
- **100** mirrors worldwide
- **122** mailing lists in 35 languages, **~1.000 MB**
- **18,000** subscribers, half of them for announcements
- in total, over **250 GB** of web-hosted data at TDF

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Born free

- all based on free software
- all knowledge to be within the community
- development of own infra products
  - Puppet modules
  - PyMIME
- contributing back to other projects

Houston, we have a problem!

- mixture of Ubuntu 10.04 LTS and 11.10
- different models of server hardware
- infra needs to keep pace with community
    - → organic growth to provide services in time
- need to restructure the current setup
    - involve new admins, spread knowledge
    - centralized and documented configuration
    - same hardware and OS basis

Rock me, baby!

- Ubuntu 12.04 LTS as primary system
- migrating MySQL to PostgreSQL
- LXC containers on top of LVM
- isolation of services for security reasons
- propagating IPv6 connectivity
- HA with failover and loadbalancing
- distributed storage using Gluster

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Wake up!

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