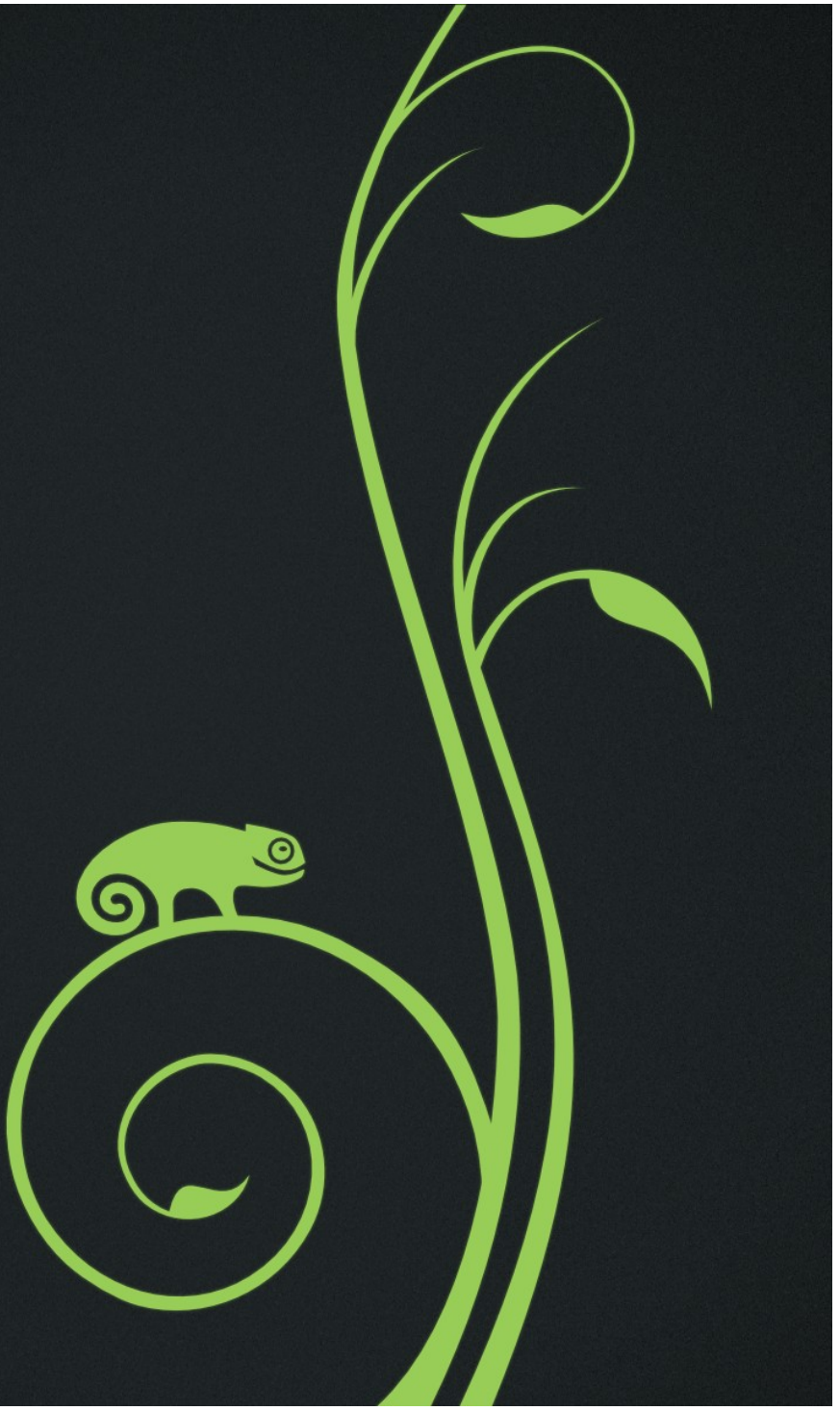
openSUSE infrastructure

Lars Vogdt, part of <admin@opensuse.org>

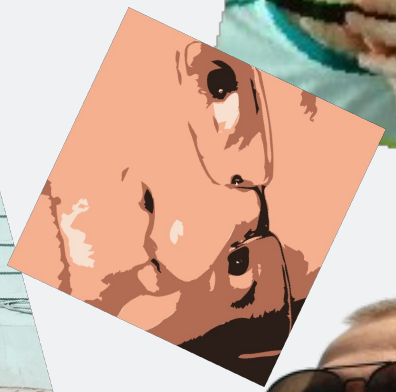
2013-11-15

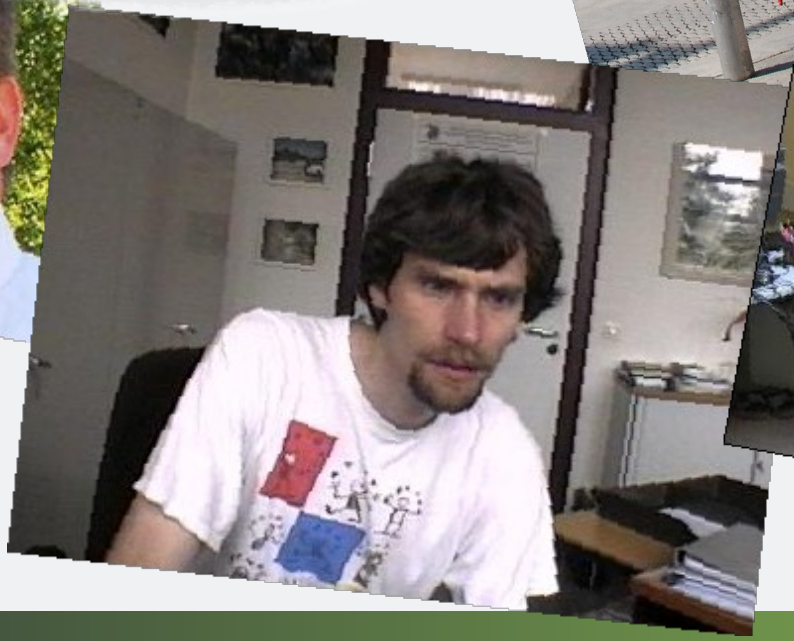
Special thanks for the images to Marcus Rückert and Andreas Jäger!

Who we are ?



We are...





Human resources: the people

- http://en.opensuse.org/openSUSE:Services_team
- http://en.opensuse.org/openSUSE:Build_Service_team
- Community members:
  - jaloki, jw, tschmidt, mmarek, mmatz, tian2992, ku.b, ke, draht, wolfir, agraf, miska, ademmer, bphillips, minton, nderkach, rguenther, wwarlock, jdsn, lrupp, mrueckert, hvogel, francis, ...
    - ~13 SUSE people
    - ~10 external people (2 former SUSE employees)
- **~23 people total**
- **~5000 hours per year**

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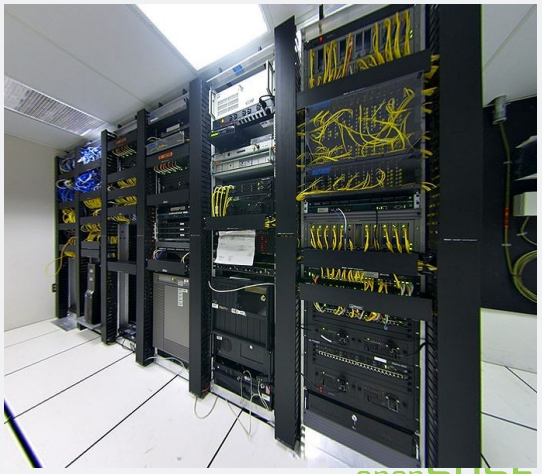
Infrastructure: hardware resources

Nuremberg = everything on .opensuse.org not in Provo

- 25 real machines
- ~23 virtual machines
- ~45 real build workers
- 7 switches with 5 different (V)LANs
- 1 serial console server; 1 KVM server
- Different FC-Storages from SUSE SAN (~28TB)

Provo = $lang., forum., lizard., news., bugzilla.o.o

- Cluster of 3 machines for forums, wikis and wordpress instances
- Database cluster incl. storage

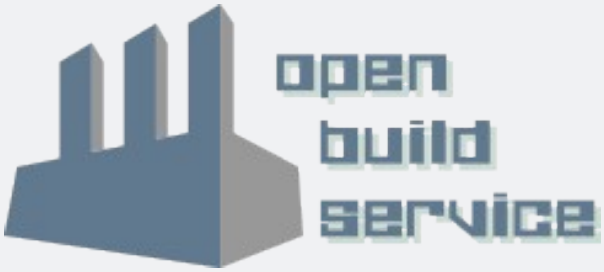


Still want more?

Infrastructure highlights

Mirrorbrain (download.opensuse.org)
- Central mirror database
- Download redirector
- Torrent/Metalink generator

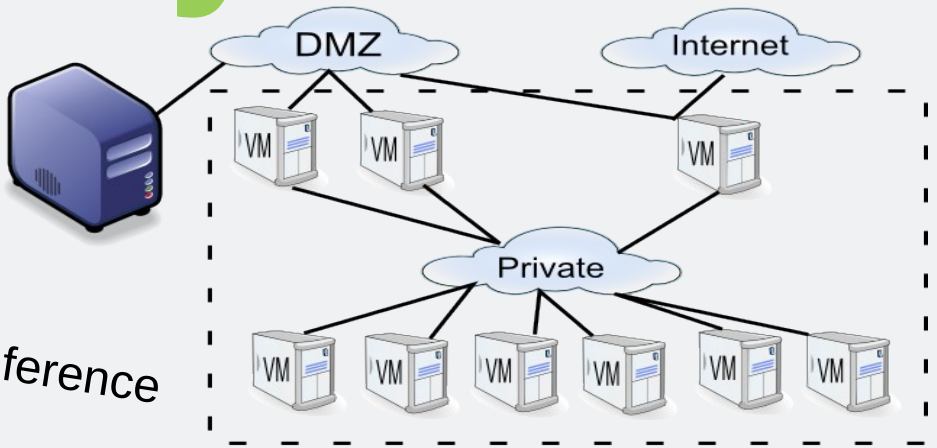
Connect
Lizards
Mailinglists
Forums
Wikis
kernel
openQA
Hermes
News
ActiveDoc



Open Build Service
- Building > 200,000 packages for
- more than 21 base distributions
- on 7 different architectures

...and many more!

Virtualisation plattform
- “Alice in Wonderland” :
- planned: SUSE Cloud 2.0

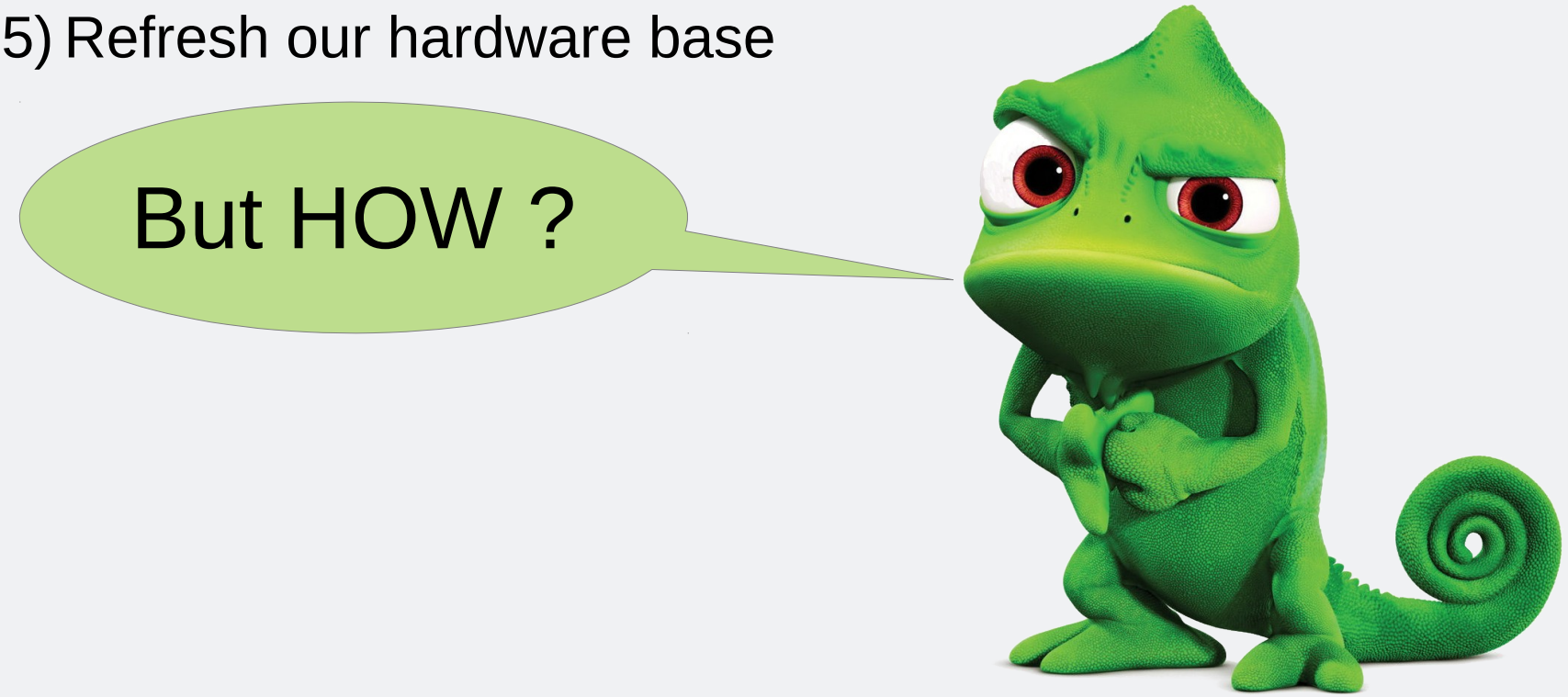


Git/SVN
ICC
Bugzilla
Piwik
Conference
Features/Fate
Jenkins
Software

openSUSE

Our goals for the near future

1) Better **promote** the cool features we invented for ourselves
2) Increase communication with the community
3) Increase awareness inside the SUSE BU
4) Implement rules and guidelines for our infrastructure
5) Refresh our hardware base



Goal 1: Better promotion

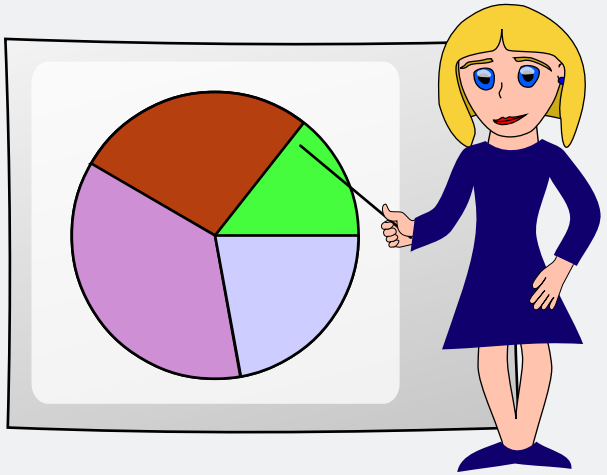
- Work closer together with the marketing guys
  - get 1:1 relationships between developers and marketing
- Start writing blog entries about our stuff
  - give marketing something to work with
- Give talks
  - As this is nothing for everybody: choose “talk masters”
  - Tell people what we have – be open for suggestions
- Centralize

Goal 2: Increase communication

- Implement public Ticket system for admin@opensuse.org ✓
- Check if we need more public monitoring
- Promote admin@o.o ; ftpadmin@o.o ; mirrors@o.o ; IRC ✓
- Think about “infrastructure consultation days/hours” (like others have their bugsquashing days/hours) – and an own IRC channel ✓

Goal 3: Increase awareness

...working on it...



Goal 4: Rules and guidelines

- Implement “infrastructure mentors” acting as teacher and mentor for new admins
- Stay open and flexible – but also conservative in terms of security and maintenance
- Promote the “openSUSE Infrastructure Policy”

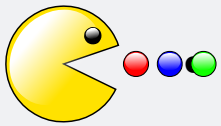
openSUSE Infrastructure Policy

https://en.opensuse.org/Infrastructure_policy

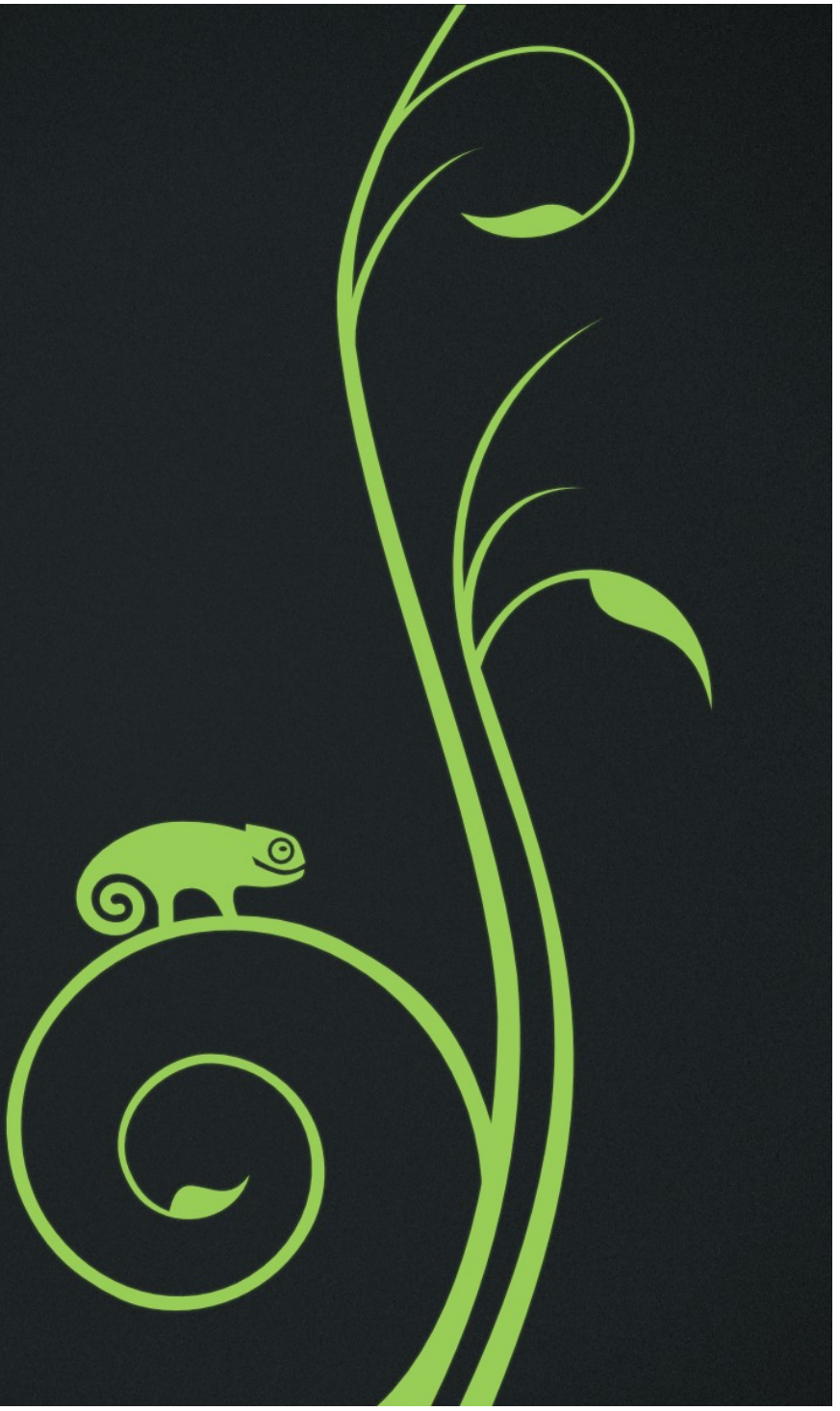
Users expect services to be:

- reachable 24/7
- always up-to date
- Secure

- Make sure that at least someone is reachable:
  - Get Email, Telephone and/or IRC name
  - Get root access for some people getting paid for service
- Have all available updates installed at any time
- Secure the machines and services
- Use monitoring and react before anyone noticed a problem
- Have backups at hand
- Shutdown unneeded services



Questions



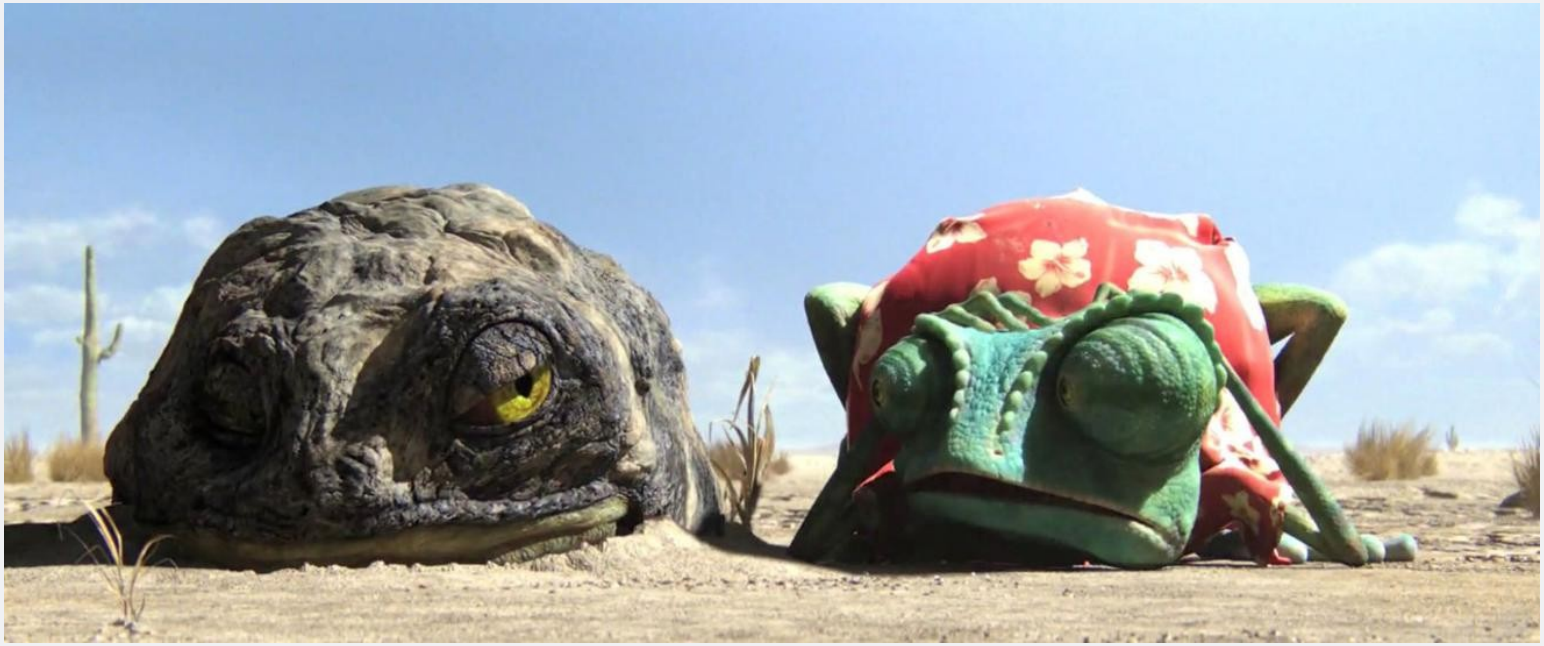
What are you using as OS ?

mostly openSUSE

...and:

- SUSE Linux Enterprise Server
- + some additional packages

What if I want to start a new service?



Convince us...

admin@opensuse.org

Can I join the team?

(We are hiring: https://www.suse.com/company/careers/)

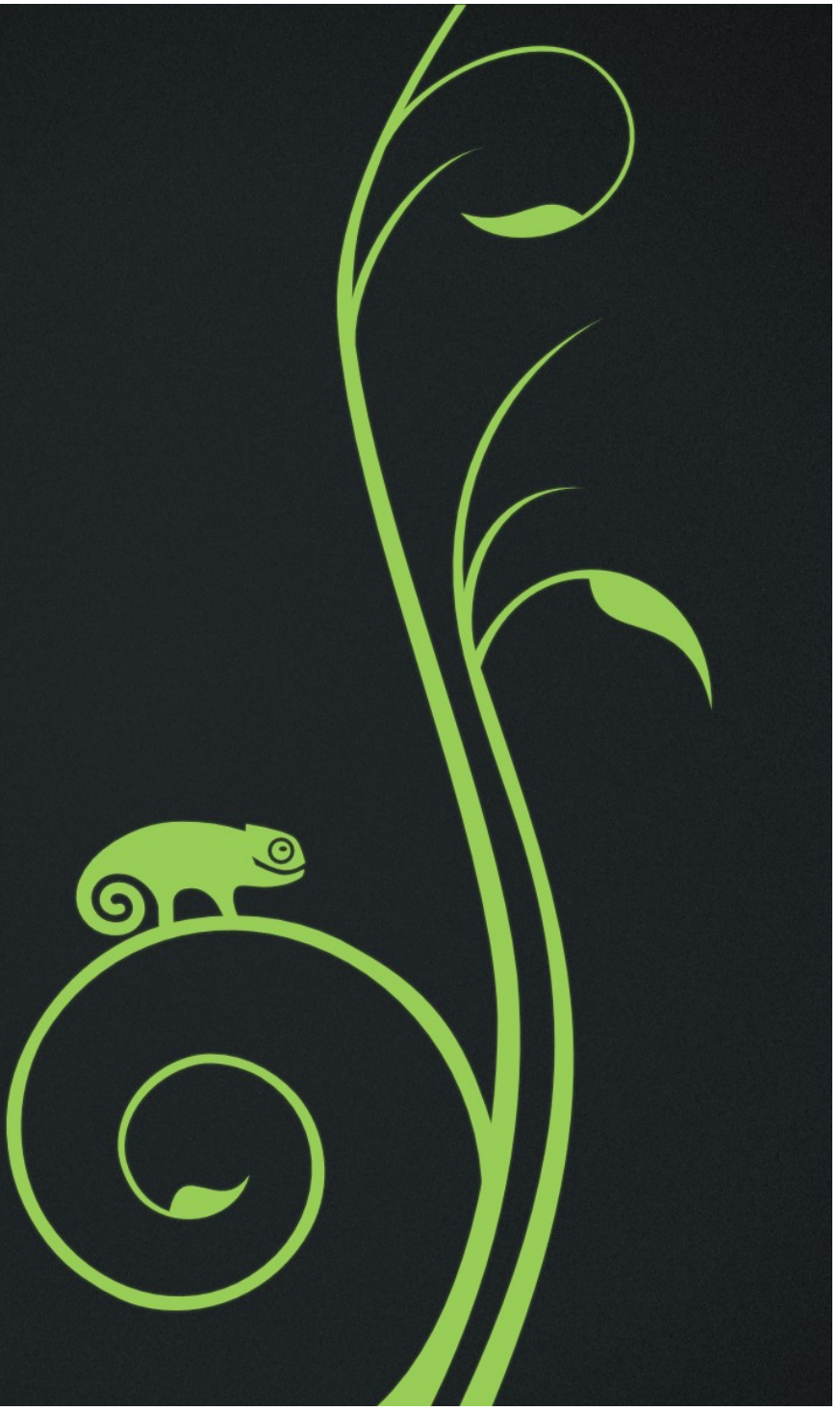
Ask us on admin@opensuse.org

Anything I can already help with ?

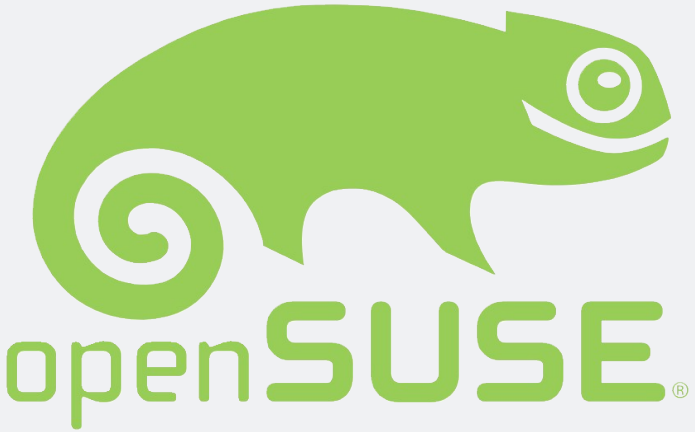
Already vacant Admin positions:

- $LANG.opensuse.org wikis
- apparmor.opensuse.org
- connect.opensuse.org
- crashdb.opensuse.org
- features.opensuse.org
- hermes.opensuse.org
- IRC cloak handling/assigning
- lists.opensuse.org archive
- lizards.opensuse.org
- ~~mirror registration~~ and help
- news.opensuse.org
- planet.opensuse.org
- software.opensuse.org
- tube.opensuse.org
- www.opensuse.org

More questions ?

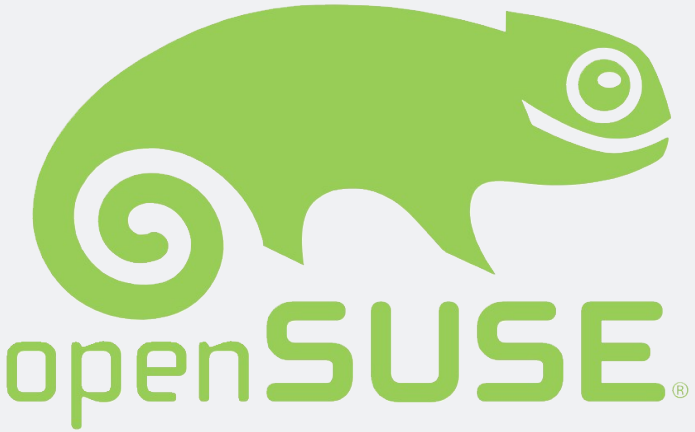


Thanks!



Join us on:

www.opensuse.org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