

# Skool!inux

**aka Debian-Edu**

***Linux in der Schule***



# Vorwort

- These slides are written in in english, even though the talk will be held in german. Unless the audience wants it in english ;-)
- Reasons:
  - easy “recycling” of these slides for me and others.
  - debian-edu is developed in english. There are local (user) communities too, but our common language is english.
- Zwischenfragen sind gern gesehen, insbesondere wenn ich zuviel Denglisch rede :-)



# Outline

- some bits about me
- debian, debian edu
- project goals
- architecture & features
- status of world domination ;)
- development model & tools
- german community
- contributions to Debian
- current and future challenges



# Some bits about me

- running Debian stable as primary OS since 1996
- contributing since 2003
- Debian Developer, holger@debian.org since 2007
  - Debian-edu member, powerpc porter, ftpmaster
  - FAI (fully automatic installation) developer
  - Debian-QA / piuparts contributor
  - founded debian-community.org
- DebConf organizer
  - founded the DebConf video-team in 2005



Skolinux

# About the two names...

- nowadays Debian Edu and Skolelinux are used as synonyms – it's the same project
- Skolelinux was started in 2001 in norway, Debian Edu at around the same time in france
  - skole is norwegian and means school
  - edu is short for education
- I tend to say that
  - Debian Edu is name of the project
  - Skolelinux is the name of the distribution



# Debian

- **Debian Free Software Guidelines** (free distribution, open source, derived works, no discrimination against usage or users, ...)
- **Social Contract** (will remain 100% free, we will give back, we won't hide problems, our priority are our users and free software, therefore contrib and non-free)
- > 1000 developers, > 18000 software packages, 12 architectures officially supported
- prominent users: LiMux, LinEx, BSI, HP, LindenLabs (2<sup>nd</sup> life), Pixar, Jim Henson, Ubuntu..



# Debian Edu and Debian

- official Debian sub-project (and another CDD (Custom Debian Distribution))
- more than 25 developer gatherings in norway, germany, spain, brazil, france – good to improve cooperation and to avoid flamewars
- approx. 30 debian-edu developers, more than 150 translators and documentation writers
- >1000 debian developers :-)
- 9 packages which are currently not in debian, 11 packages which are modified in debian edu
- goal for lenny: 0 packages differ from debian



# Project goals

- The original idea: provide a software distribution with a complete IT platform for primary schools.
- ethical goals:
  - teach kids that sharing software can be legal and good
  - teach kids how to tinker and improve the software they use
  - demonstrate the quality of free software
  - provide programs on all the native languages (plattdüütsch)





# Project goals continued

- practical goals:
  - reduce the computer-related expences in schools
  - give schools a well-tested collection of services which reduce system administration needs
  - increase computer availability



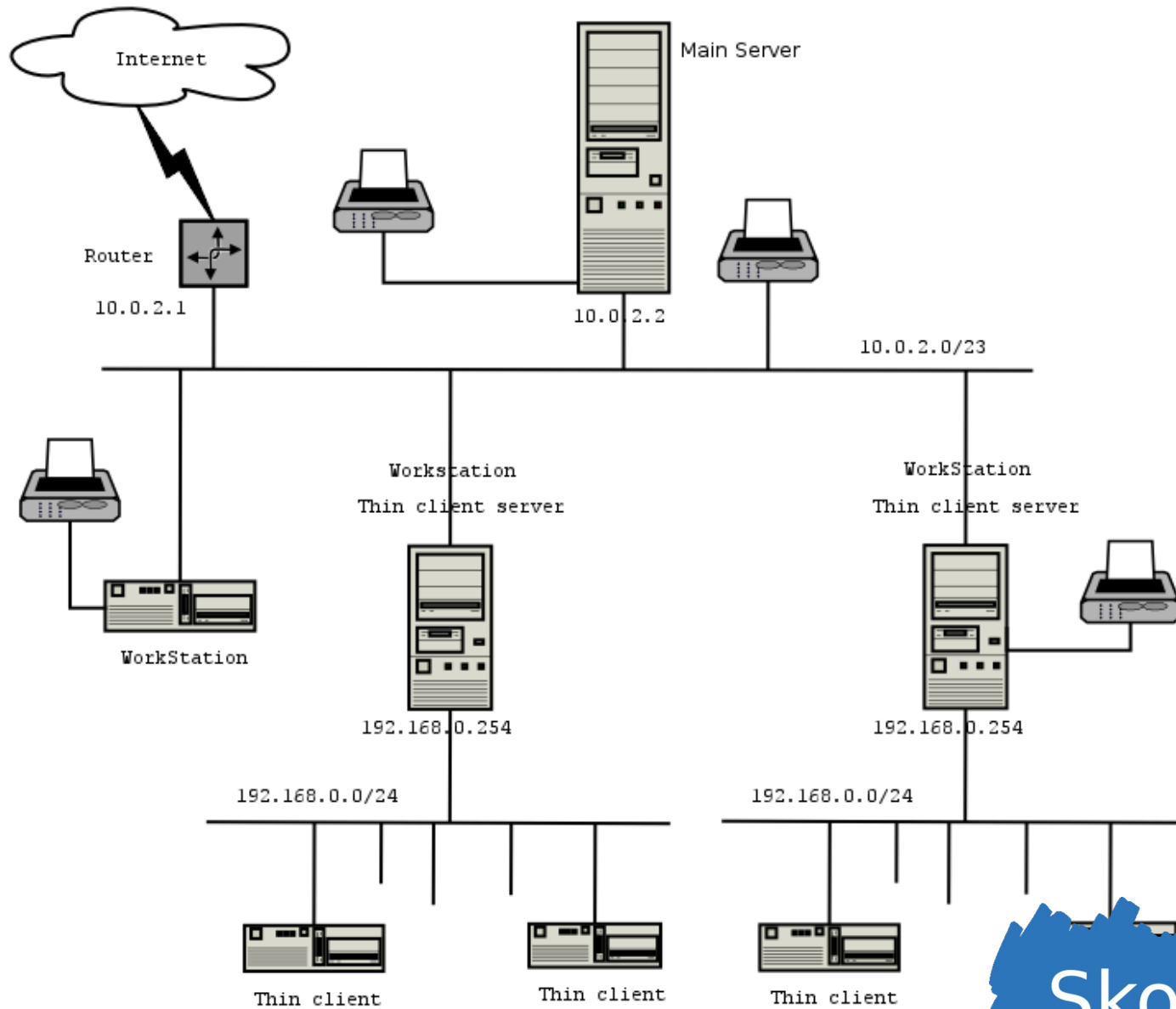
# School specific needs

- low maintenance, out-of-the-box setup
- little resources
- localisation – very important in schools
- learning to express, share & learn
- tools for making music, drawings & learning
- source code availability – to be able to understand whats going on and change it
- different tools for different kind of pupils
- office, java and flash :-(
- -> not so very school specific at all! :-)



Skol@linux

# Network architecture



# Debian Edu “terra 3.0” features

- simplified debian-installer for i386, amd64 and powerpc
  - architecture specific installation CDs
  - multiarch DVD
- LTSP server for thin- & half-thick clients
- installed services: ldap, web, mail, remote syslog, cups, ntp, dhcp, dns
- LDAP out the box
  - user database, home dirs on every machine (via NFS)
  - web based admintool Iwat



# More features

- KDE based desktop with java & flash and OpenOffice.org
  - KDE kiosk mode preconfigured
- complete end-user documentation
  - developed in a wiki
  - translated with .po files
  - generates html and pdf versions
- live-CDs built with debian-live (see <http://live.debian.net>)



# debian-edu in schools worldwide and beyond

- used in more than 450 schools worldwide - mostly europe (300 in .no, 70 in .de) but also more than 60 in africa, distributed via <http://fairinternational.org/>
- between 200 and 30000 users per school
- this will at least double in 2008 (LinEx)
- cooperation agreements with Edubuntu, LinEx (Extremadura Spain), KDE-edu, PSL-Brasil, mEDUXa and the UN/MIT project One Laptop per Child



# Schools using debian-edu



# Development model

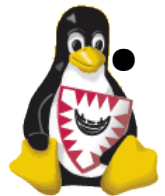
- All code, translations and documentation have to be committed to our source code management system(s)
- Bugs have to be committed to the bug-tracking system(s)
- Commit everything upstream.
- Follow the licence-terms, encourage GPL
- Help people to help them selves
- The person who does something decides





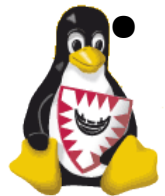
# Development “tools”

- [debian-edu@lists.debian.org](mailto:debian-edu@lists.debian.org)
- [wiki.debian.org/DebianEdu](http://wiki.debian.org/DebianEdu)
- #debian-edu, monthly meetings
- [svn.debian.org/debian-edu](http://svn.debian.org/debian-edu) on Alioth
- [ftp.skolelinux.no](http://ftp.skolelinux.no) (we give upload rights to non-DDs – within our policies)
- svn-commit triggered builds of etch and etch-test CDs
- frequent RL gatherings



# german community

- Mailingliste: [user@skolelinux.de](mailto:user@skolelinux.de)
- [#skolelinux.de](#) auf [irc.debian.org](http://irc.debian.org)
- [wiki.skolelinux.de](http://wiki.skolelinux.de)
- Testzentrum in Gütersloh
- sometimes/partly disconnected from international efforts
  - share your needs, work & experience in english
- LinEx merges too!!



# Contributions to Debian

- participation in the CDD effort
- funded kickoff of debian-installer
- preseeding for d-i
- funded kickoff of testing-security
- LTSP
- skilled developers :)
- support the free java and gnash efforts



# Current and future challenges

- release “terra 3.0 r1” with improved documentation and Iwat
- customisations of the german and french skolelinux teams are only very slowly integrated into debian-edu
- integration of the LinEx customisations, LinEx plans to deploy a new version based on Debian Edu in spring 2008
- release with Debian Lenny (end of 2008)



# Wanna join?

- we need:
  - developers
  - testers (general & amd64 & powerpc)
  - translators
  - documentation writers
  - artists
  - multipliers
  - users (teacher, pupils)



# Dankeschön :)

- Questions ?

