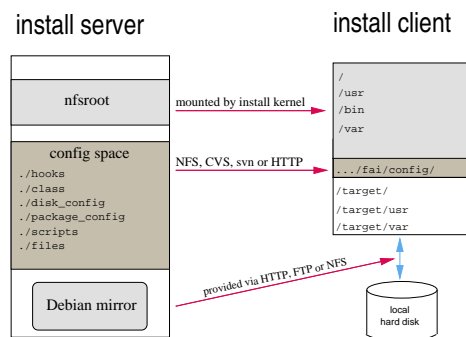


- Now a complete Linux OS is running without using local hard disks

2 - Get configuration data



3 - Run installation

- partition local hard disks and create filesystems
- install software using apt-get command
- configure OS and additional software
- save log files to install server, then reboot new system

Examples of installation times

CPU + RAM	software	time
Core i7, 3.2 GHz, 6GB	4.3 GB	7 min
Core i7, 3.2 GHz, 6GB	471 MB	77 s
Core2duo, 2 GHz, 2GB	4.3 GB	17 min
Core2duo, 2 GHz, 2GB	471 MB	165 s
Pentium 4, 3 GHz, 1GB	2200 MB	10 min
Pentium 4, 3 GHz, 1GB	1100 MB	6 min
Pentium 4, 3 GHz, 1GB	300 MB	105 s
Athlon 800 MHz, 512MB	2200 MB	32 min
Athlon 800 MHz, 512MB	300 MB	4 min

Plan your installation,
and FAI installs your plan.



FAI users

- Anonymous, financial industry, 32.000 hosts
- LVM insurance, 10.000 hosts
- City of Munich, 6000+, 12.000 hosts planned
- StayFriends, 300+ hosts
- Albert Einstein Institute, 1725 hosts
- Zivit, 260 hosts on two IBM z10 EC mainframes
- Archive.org, 200+ hosts
- XING AG, 300-400 hosts
- Opera Software, ~300 hosts
- Stanford University, 450 hosts
- MIT Computer science research lab, 200 hosts
- The Welcome Trust Sanger Institute, 540 hosts
- Mobile.de, ~600 hosts
- Thomas Krenn AG, 500 per month
- Electricité de France (EDF), 1500 hosts
- ETH Zurich, systems group, ~300 hosts
- Trinity Centre for High Performance Computing, 356 operons, 80 xeon
- For more see <http://fai-project.org/reports/>

Examples of FAI installations



The Centibots Project

100 autonomous robots
funded by the DARPA
SRI International Artificial In-
telligence Center, USA



Lucidor cluster

90 Dual Itanium2 900 MHz
6 GB RAM per node
Center for Parallel Compu-
ters, Sweden



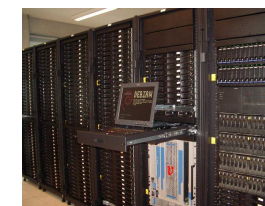
Genome research cluster

168 IBM HS20 Blades
2x2.8 GHz P4
The Sanger Institute
Cambridge, UK



The MERLIN cluster

180 Dual AMD MP2200
1 GB RAM per node
Albert Einstein Institute
Golm, Germany



IITAC cluster, top500.org

356 operons, 80 xeon
Trinity Centre for High
Performance Computing,
University of Dublin, Ireland



Computer Science lab

308 workstations, 127 servers
University of West Bohemia
Czech Republic

