Fully Automatic Installation

What is FAI ?

• System for unattended Linux installation • Installs and configures the whole OS and all additional software • Centralized configuration management and administration • Scalable and flexible rollout method for Linux migration • Linux deployment in only a few minutes



• Manual installation takes hours, FAI just minutes • Recurring tasks are boring and lead to errors • You need an infrastructure management • You want to save time

Features

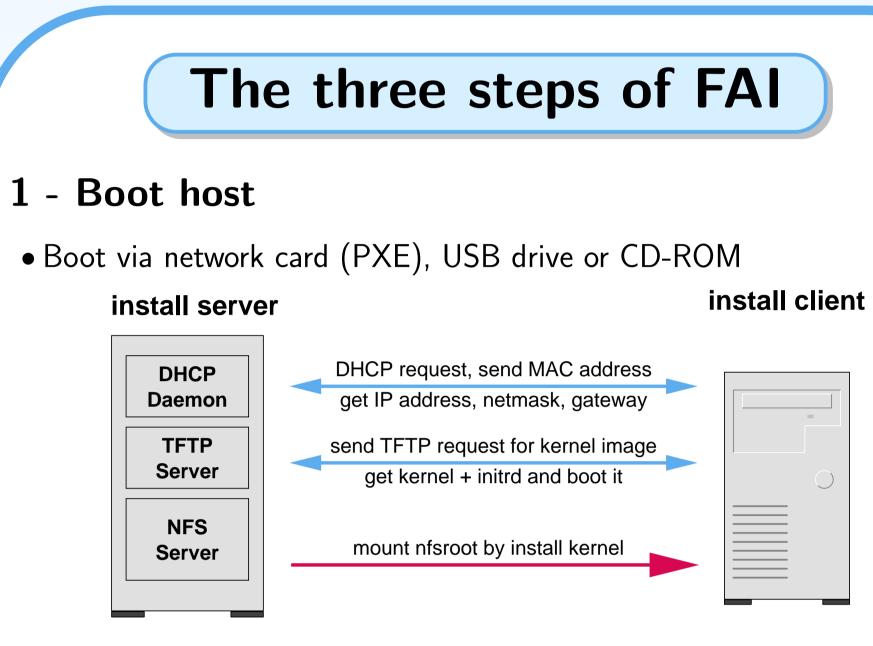
• Installs Debian, Ubuntu, Rocky, Alma, Linux Mint, SuSe, • Class concept supports heterogeneous configuration and hardware • Autodiscover of the install server • Creates disk images for KVM, XEN, VirtualBox, VMware or cloud VMs • It's easy to create a **customized Live ISO** • Reproducible installation • Automatic documentation in central repository • Automated hardware inventory • Full remote control via ssh during installation process • FAI runs on i386, AMD64, ARM64 and IBM z10 mainframe • Several GUI for FAI using GOsa, openQRM, DC 2 • FAI.me web build service

Availability

FAI at work

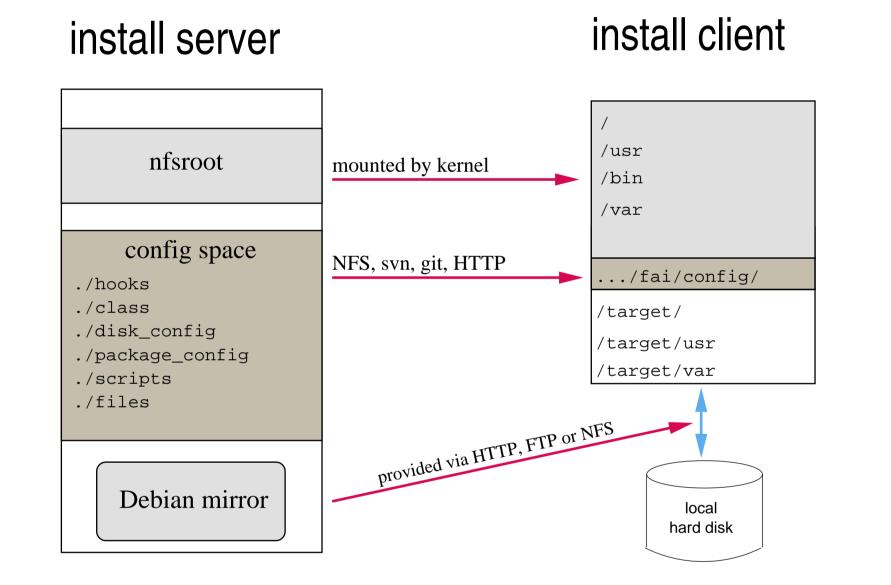
• Homepage: https://fai-project.org • Open source under GPL license • Detailed documentation, mailing lists, IRC channel • Official Debian packages, ISO images of demo CD • Commercial support available

hostname



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

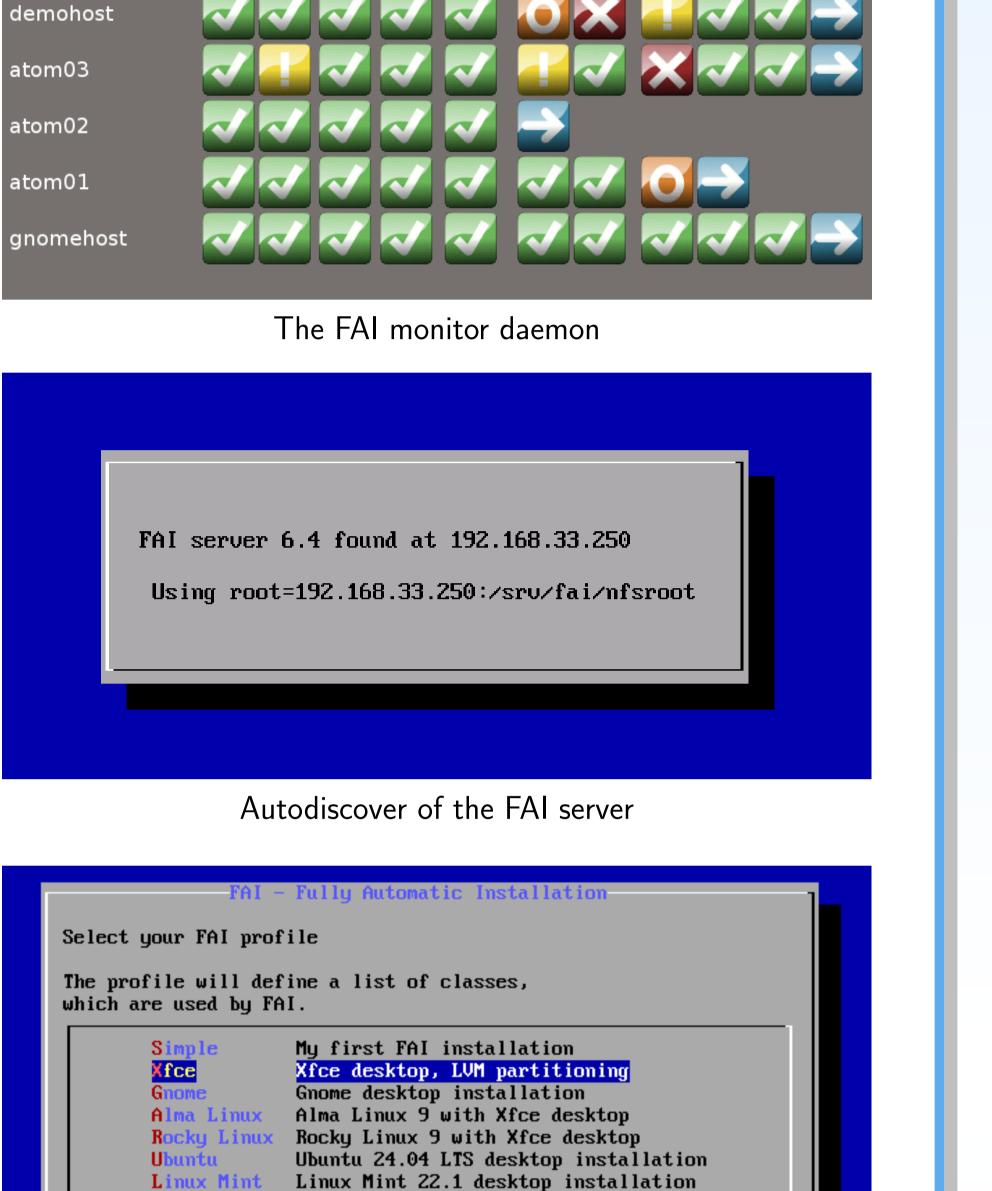
2 - Get configuration data





Plan your installation, and FAI installs your plan.





Show hardware info

Susinfo

Show defailed system information

3 - Run installation

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

Examples of installation times

CPU + RAM	software	time
E5-2690v2, 3.0 GHz, SSD	5.4 GB	7 min
i7-3770T, 2.50 GHz, SSD	6.0 GB	9 min
Core i7, 3.2 GHz	4.3 GB	7 min
Core i7, 3.2 GHz	471 MB	77 s
Disk Image, no Xorg	1.1 GB	1:30 min
Disk Image, Xfce	3.7 GB	4:09 min
Disk Image, GNOME	4.4 GB	5:04 min
Live ISO, no desktop	1.3 GB	2:30 min
Live ISO, Xfce	3.8 GB	5:40 min
Live ISO, GNOME	4.6 GB	6:45 min

debian ubuntu	<pre>Cancel> < Help ></pre>	
Dinuxmint	Selecting a FAI profile from the menu	
SalmaLinux	FAI references	
Rocky	Kanego green It solutions TUXEDOCOMPUTERS XING X Social Media Monitoring	
FAI users	Image: Second	
 Anonymous, financial industry, 32.000 hosts LVM insurance, 10.000 hosts 	Institut	
 City of Munich, 16.000 StayFriends, 700+ hosts Albert Einstein Institute, 3000+ hosts 	Image: State of the state	
 Zivit, 260 hosts on two IBM z10 EC mainframes Archive.org, 1200 bare metal and 800 KVM hosts XING AG, 300-400 hosts 	Image: Calculy State MathWorks: INETWAYS open source technologists Opera Image: Calculy State open Quiversität Opera Image: Calculy State Image: Calculy State Image: Calculy State Image: Calculy State	
$ullet$ Opera Software, \sim 300 hosts	Universität zu Köln Universität zu Köln Universit	

• Opera Softw • Stanford University, 450 hosts • MIT Computer science research lab, 200 hosts • The Welcome Trust Sanger Institute, 540 hosts • Mobile.de, \sim 600 hosts • Thomas Krenn AG, 500 per month • Electricité de France (EDF), 1500 hosts • ETH Zurich, systems group, \sim 300 hosts • Dropbox, 300 hosts • For more see https://fai-project.org/reports/

