Open Source Client-Management-System opsi

opsi Features
Version 4.2

opsi

Client and Depot Administration / Management Interface:

- Individual and collective configuration of client PCs

- Hierarchical group management for clients; possible synchronization with the AD via opsi extension

- Extensive client selection functions based on criteria like: installed software, hardware, UEFI or standard boot, depot affiliation

- Timed Wake-on-LAN support via the opsi config editor

- Directly initiate remote desktop sessions

- Easily create and delete clients and remotely install the opsi-client-agent

- Initiate installations on demand for clients

- Retrieve product installation state and progress as well as the next requested actions

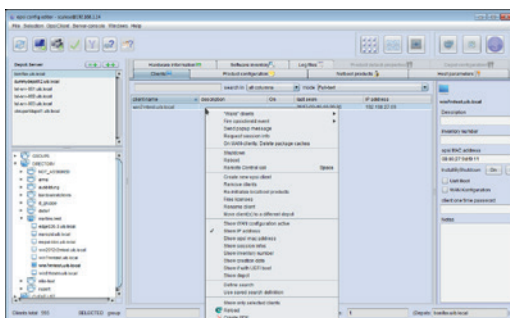- Display installed and available versions of a product

Fig.1: opsi-configed: client and depot selection

- Manage products in groups

- Display software and hardware inventory data

- Edit client and server configuration

- Easy access to the client-related log files

- opsi config editor is installed together with its Java Runtime Environment

Netboot products: OS Installation and more

- Boot via PXE

- UEFI and Secure Boot support (via opsi extensions)

- Current versions of Windows and Windows Server, as well as various Linux distributions are supported

- Package-based unattended installation or image-based installations

- Integration of drivers via PCI, USB, HD-Audio signatures

- Save and restore partition and disk images

- More netboot products like memtest, wipedisk, etc.

Localboot products: Software deployment and more

- Software installation and de-installation via silent / unattended installation of existing packages or via detailed installation steps
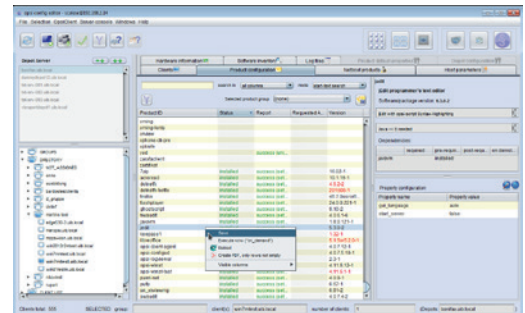

Fig.2: opsi-configed: product configuration

- Editing of registry, start menu and, desktop entries,

- ini-files, XML files, and text files

- Specific script language tailored to installation and configuration, expandable with self-defined functions as well as external command calls

- Reboot and shutdown control

- Extensive logging

- Administrative tasks e.g. via shell calls

Opsi packages, Support, and Community

- Create your own packages as described in the opsi manuals or in our training; get support from different graphical tools from uib or the opsi community (opsi-setup-detector resp. opsi-packagebuilder)

- opsi package repositories available for free

- Packaging and support available from uib gmbh

- Large and active opsi community at forum.opsi.org

Hard- and Software Inventory

- Detailed detection of hardware information via WMI and other commands

- Hardware inventory as well available from the Linux boot image

- Software inventory data in Windows gathered from the registry

- Inventory data stored centrally in a MySQL database

Miscellaneous

- Easy initial rollout of the opsi-client-agent

- Central logging and easy access to the log files in the

- management interface

- opsi server runs on various Linux distributions and is "dockerizable"

- Software on Demand (Kiosk-Mode): Approved software may be requested for opsi installation by the end-user without administrator interaction
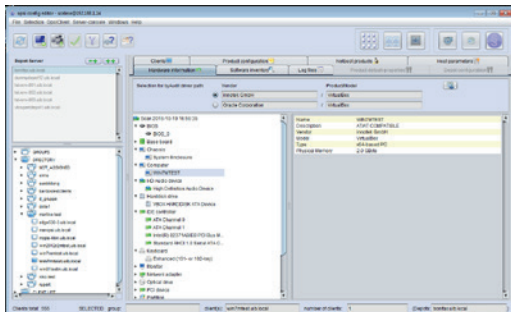

Fig.3: Presentation of hardware inventory

opsi Extensions

The following modules are optional and expand the functions of the free opsi version. You can find the prices here: https://download.uib.de/doku/opsi-module-prices_en.pdf

- **Directory-Connector** – Syncing client data from ActiveDirectory or Samba4 to opsi

- **User-Roles** – Gives an opsi-depot administrator a restricted view in the opsi-management interface e.g. show only clients that belong to specific depots

- **License Management** - Standardization and simplification of software license management, for easy execution of software licensing audits

- **MySQL-Backend** - Save configuration data in a database. Improves the performance of large installations with numerous clients

- **Support of opsi clients connected via WAN** All installation files and data is cached on the client in the background before installation

- **Scalability 1** - Increases opsi-server performance by using multiple processes for the central opsi service

- **WIM-Capture** - Capture Windows installations including all hotfixes, software, and configurations to WIM-format and use these images to install new clients with Microsoft standard setup.exe

- **opsi-Nagios Connector** - Monitoring of opsi server functionality, opsi rollouts, opsi clients

- **Linux Agent** - Management of Linux and Windows clients in the same management interface

- **Mac Agen**t – ditto for Mac clients

- **Local Image Backup** - Fast client restore of student or classroom computers

- **UEFI Support** – Support of UEFI boot and GPT partition tables

- **Secure Boot** – Support of UEFI secure boot

Free opsi Extensions

The following extensions have become part of the free opsi version:

- **Install by Shutdown** - Software installation when the client shuts down

- **User Profile Management** – for roaming user profiles

- **Dynamic Depot Selection** – for traveling clients

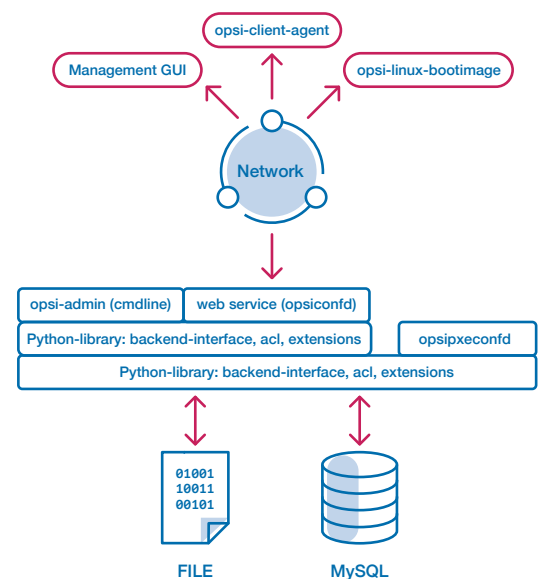- **Group management in the management interface**

Concept

Fig.4: Modular web service based architecture

opsi operates on a modular web-service-based architecture and communicates via an SSL encrypted web service.

A file and MySQL based backend is alternatively supported for keeping data. opsi is completely controllable by scripts via the command line interface opsi-admin.