Collax V-Cube

Highlights

- Squeezes more out of your existing IT
- Hardware cost savings: infrastructure, administration, power etc.
- Fast, flexible server management
- Significant reduction in downtime
- Full remote management of server and virtual computers
- Dynamic hardware resources allocate at any time
- Reduced support expenditure per server
- Improved hardware utilization
- A simplified procurement and no dependency on legacy hardware
- Green IT: energy savings through consolidation
- Simple license model
- Based on the fastest virtualization technology on the market

Virtualization reduces costs and increases flexibility

The Collax V-Cube helps you get more out of your IT without added spending. It reduces overall operating costs and maximizes flexibility. This is done by:

- **Increasing hardware utilization** – getting the most out of your hardware.
- **Optimizing infrastructure** – organize things the way they should be instead of the way you are forced to.
- **Improving server availability** – making sure everything stays up and running.

More flexibility

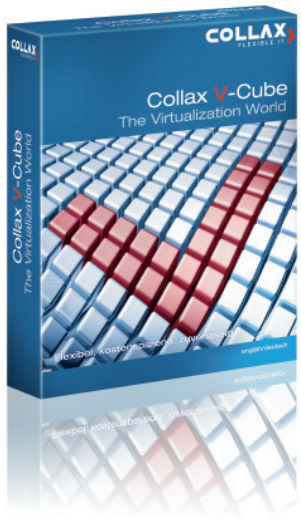
The **Collax V-Cube** lets you construct, change and replace part or all of your IT infrastructure freely. The creation of a server or migration of existing servers off old or failing hardware can be achieved rapidly and without additional hardware thus freeing up administrator‘s workload.

Lower costs

Collax V-Cube cost savings are a combination of: Hardware savings PLUS reduced corporate impact. Total Cost of Ownership analysis indicated that savings of up to 80 % can be made on hardware and net-working alone. In addition, experts argue that virtualization can result in total savings of up to 50 % across IT as a whole.

Easy management

Unrivalled virtualization power also comes with ease of management. Both the **Collax V-Cube** and its virtual guests can be remotely managed from any browser without the need to install client software. The **Collax V-Cube** administration interface is powerful and easy to use (wizard driven). It enables administrators to dynamically reallocate almost any feature of the virtual guest (wizard driven).



It enables administrators to dynamically reallocate almost any feature of the virtual guest (e. g. memory, processor, disk space etc.).

Universal virtualization

True virtualization efficiency means that everything in the physical machine is virtualized and not just the processor and memory. The **Collax V-Cube** completely virtualizes the memory, processor, networks, storage and also supports serial ports, USB and PCI, too.

Technical Highlights

- Run multiple operating systems on a single machine
- Total virtualization of all resources
- Hardware optimized virtualization – very fast
- Tiny virtualization overhead
- PCI virtualization – direct use e. g. of ISDN or multimedia by a virtual guest
- Easy migration of old systems onto new hardware
- Simple to use – powerful management functions that are simple to use
- Simple provisioning with the use of templates
- Built-in backup and restore
- Collax migration tools built-in – migration of physical to virtual (P2V) and virtual to virtual (V2V)

Remote access and control from any internet browser.Securely control both server and guest machines with keyboard and mouse from anywhere.

Features at a glance:

Administration

Advanced browser-based (AJAX) User Interface | wizard guidance | remote control of the server and the virtual machines (direct access or from a browser) | extensive context-sensitive help | ISO and VM image management (via FTP, NFS and SCP) | statistics | reports | event monitoring | logging | self-monitoring (with e-mail notifcation) | template based provisioning | backup and restore | NTP server | Collax migration tool (P2V, V2V)

Hardware virtualization

Takes full advantage of Intel VT and AMD-V | Virtual SMP | 64-bit hypervisor technology | support 32-bit and 64-bit guest support for paravirtualized guests | virtualization RS-232 and USB | PCI passthrough (requires Intel VT-d or AMD-Vi) | QoS of virtualized guests

Network virtualization

Virtual switches | paravirtualization support for common driver (Intel e1000, RTL rtl8139, Novell ne2000) | bridges to physical network interfaces | link aggregation | DNS | DHCP | tagged VLAN | jumbo frames

Storage virtualization

Disk Management (LVM) | integrated storage or SAN connectivity (iSCSI) | thin provisioning | virtual guests as image file | logical volume or a dedicated hard drive | QoS for disk-I/O

What is virtualization?

The **Collax V-Cube** allows you to run several computers on one physical machine. For example you can run a **Collax Platform Sever**, a Microsoft Server and a software appliance on it at the same time with each computer having no idea it is ‘virtualized’.

System Requirements

- 64 Bit Processor with Intel VT or AMD-V support
- Bootable CD-ROM drive
- Hard disk: 20 GB
- Memory: 1024 MB
- One network card
- VGA capable graphics card (only for installation)

The Collax V-Cube is also available as an Appliance (complete system inclusive of hardware)

Supported guest operating systems

Windows 7, Vista, XP, 2000, 2003, 2008, Novell Suse Linux 9, 10, Red Hat 3, 4, 5, Ubuntu and many more.

Supported hardware

- Up to 256 GB of memory
- Up to 16 TB hard drives
- Up to 256 processors (cores)
- Unlimited number of virtual guests
- Any number of virtual switches

Resources for virtual guests

- Virtual memory limited by available hardware memory
- Virtual disk capacity limited byavailable hardware disk capacity
- Up to 16 virtual NICs
- Up to 16 virtual processors (VSMP)
- Up to 4 virtual disks or CD/DVD ROMs
- 16-bit, 32-bit or 64-bit guests

You have more questions? Feel free to contact us at:

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