

Collax V-Cube

Highlights >

- > Save money - Reduce hardware, power consumption, air conditioning etc.
- > High performance and scalability - More virtual machines per server
- > Remote management - Manage server and virtual machines from anywhere
- > Proven technology - Based on the world famous KVM technology
- > Legacy server integration - Simple server migration with physical to virtual tools
- > High availability option - Easy and affordable upgrade to high availability with Collax V-Family
- > Simple pricing - Easy to understand, predictable and affordable
- > Low adoption price - Subscription based therefore low entry price
- > Total solution - Available as software or pre-built hardware appliance

It is a fact that the requirements of a business IT infrastructure are constantly changing. Couple this with the tight budgets of small or growing business and you have a problem. Virtualization can solve both issues. First by virtualizing IT you future-proof it: Changes to virtual servers and their power (CPU, memory etc.) become easily and require no extra investment. Secondly by consolidating hardware you reduce power consumption, operating costs and of course cooling requirements (air conditioning etc.). The Collax V-Cube is one of the highest performing virtualization servers available; this increases these savings especially for smaller businesses.

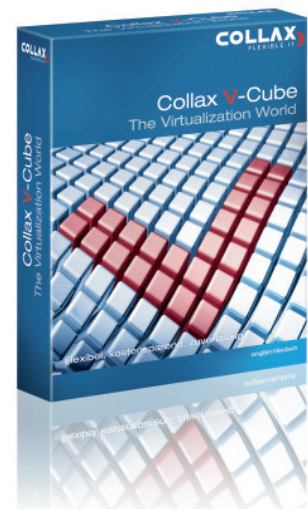
Increase server utilization - Lower costs

Virtualization lowers IT costs by consolidating servers onto less hardware without changing their structure or function. This means lower energy consumption, increased flexibility and better utilization of hardware (get more out of what you have). The Collax V-Cube is based on outstanding hypervisor technology that lets you virtualize more machines per hardware and can increase the performance of legacy servers. The Collax V-Cube forms the heart of the Collax V-Family that makes the next step of providing high availability very easy.

Flexible administration - Remotely management

The Collax V-Cube benefits for administration friendly management features like: Simple wizard driven virtual machine creation, detailed system control, graphical statistics, system installation from ISO files (you do not have to be at the server with disks), backup and full browser remote administration as standard. From a browser an administrator can configure the ser-

Virtualization solution built for the small and medium business



ver, reconfigure virtual machines and take control of the virtual machine using built-in desktop control technology.

Collax V-Family - Clustering

Although clustering and high availability are considered as large enterprise solutions, the Collax V-Cube in conjunction with two add-on modules can easily and economically provide clustering and high availability. The Collax Inter-V module binds two or more Collax V-Cubes into a cluster. This then lets virtual machines dynamically move between physical machines either manually (Live Migration) or automatically (High Availability). Note that all cluster solutions require shared storage. The Collax V-Store module is a uniquely designed shared storage solution (eSAN) that makes clustering affordable by all companies.



For more information on the Collax V-Cube please scan this code with an appropriate QRCode scanner



Committed to
open
virtualization

Collax believes wholeheartedly in the benefits of the open Kernel-based Virtual Machine (KVM) solution and in 2011 joined the Open Virtualization Alliance (OVA) to promote this solution over proprietary solutions.

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 of e.g. ISDN or multimedia by a virtual guest
- Easy migration of old systems onto new hardware
- Simple to use - powerful & remote management functions
- Simple provisioning with the use of templates
- Built-in backup and restore
- Collax migration tools - migration of physical to virtual (P2V) & 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

Browser-based | advanced AJAX GUI | Wizard driven | Remote Management | Directly or browser access to virtual machines | extensive context-sensitive help | ISO and VM image management (via FTP, NFS and SCP) | Statistics | Reports | Event Monitoring | Logging | Self-monitoring (with e-mail notification) | Template based provisioning | Backup and restore | V-Recovery - Fast & simple access to backup data of virtual machines | NTP server | Collax migration tool (P2V, V2V) | System activities notification in GUI | Graphical display of cluster resources | Hardware information of Snapshots | KSM-graphs under system information | Auto Logout

Hardware virtualization

Takes full advantage of Intel VT and AMDV | Virtual SMP | 64-bit hypervisor technology | Support 32-bit and 64-bit guest | Support for paravirtualized guests | Virtualized RS-232 and USB | PCI Pass-through (requires Intel VT-d or AMDVi) | QoS of virtual guests | Memory efficient Kernel Same-page Merging (KSM) | Snapshots of virtual machines | Live Snapshotting | HDD caching for images, Snapshots and Backups | virtual 3½" floppy disk drives by VirtIO-Treibern

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

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 including hardware).

* Only for basic system. Resources for each implemented VM must be taken into account.

Supported guest operating systems

Windows XP, Vista, 7, 8; Windows Server 2000, 2003, 2008; Novell SUSE Linux 9, 10, 11; Red Hat 3, 4, 5, 6; Ubuntu and many more.

Supported hardware

- Up to 768 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 by available 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:

Collax GmbH
Gutenbergstraße 1
85737 Ismaning Germany
Telephone: +49 (0) 89-99 01 57-0
Fax: +49 (0) 89-99 01 57-11
0800 4265529 (Free in Germany)
www.collax.com sales@collax.com