

## Collax V-Cube

### Virtualization for small and medium-sized IT infrastructures



#### Increase performance and reduce costs

With Collax V-Cube, you can run multiple servers virtually on just one physical hardware. It does not matter which operating system or which applications are running on the virtual machines (VMs). This not only saves you costs for additional hardware, but also significantly reduces power and energy costs. At the same time, performance increases thanks to the utilization of virtualization functions.

#### Modern hypervisor technology

Collax V-Cube is a powerful, reliable virtualization server. For optimal utilization of hardware resources, the KVM (Kernel based Virtual Machine) hypervisor is used. This is an open source hypervisor that is used and further developed by numerous leading international IT companies. This ensures that the basis is always up-to-date and of the highest standard.

#### Easy (remote) administration

Collax V-Cube is administered via a Collax proprietary browser-based user GUI. The structure is intuitive and is further simplified by many graphical icons. The user interface is also available remotely.

#### Monitoring and statistics

Extensive options are available for managing and monitoring the virtual servers and the Collax virtualization host. Due to the consolidation of several servers, it is necessary to recognize early on where bottlenecks exist and how to react. Every aspect, be it processor utilization, memory requirements, hard disk capacity and throughput or network traffic can be checked and compared.

#### Collax V-Cube as an appliance

Collax V-Cube is also available as an appliance (hardware with pre-installed software). Suitable hardware can be found at our certified distributors. Please visit our website at [www.collax.com/partner](http://www.collax.com/partner)

#### Collax V-Cube - Extensions

**Collax Central** - active system monitoring

**Collax V-Transfer** - easy migration of virtual machines between Collax V-products (Collax V-Cube, V-Cube+ and V-Bien)

**Acronis Backup Advanced for Collax Virtualization** - world-leading backup solution for Collax V products

### Advantages

- Virtualization of hardware, storage and network
- Minimization of total cost of ownership
- Remote management & configuration
- Modern & ergonomic user interface
- Maximum performance
- Centralized management of VMs
- Migration tools
- Fair pricing model

## Technical details

### KVM hypervisor

Collax V-Cube is based on the KVM hypervisor, which ensures optimal utilization of hardware resources. By using the virtualization features of modern hardware, the maximum performance is achieved. The hypervisor enables the simultaneous use of different operating systems on only one hardware.

### Backup and restore

All VMs can be included in a uniform backup. Helpful functions such as instant VM or V-Recovery, which are only possible in a virtualized environment, round off the backup system.

### Snapshots

Snapshots of virtual machines make it possible to return to a specific point in time when the VM was running.

### Storage virtualization

Different types of virtual disks are available for maximum flexibility: File-based images allow easier handling and simplify the use of existing disk images. Logical volumes (LV) provide block devices for the VM and guarantee short access times and expandable disk sizes.

### Screen consoles

On each server, the virtual guests' console can be accessed without installing any program or driver. A click in the administration interface opens a new window with a browser applet and the virtual server's console can now be operated using the keyboard or the mouse. It is also possible to administer the console via an RDP or VNC client program.

### Supported guest operating systems

Windows 7 through Windows 10, Windows Server 2008 through Windows Server 2022, SUSE Linux Enterprise Server, RedHat Enterprise Linux, Ubuntu Server

### Supported hardware

- Memory: up to 1024 GB
- Hard disk capacity: up to 16 TB
- Processors (cores): up to 256

### Virtual guest resources

- Virtual memory: 512 GB
- Up to 16 virtual network cards
- Up to 16 virtual processors (vSMP)
- Up to 4 virtual hard disks or CD/DVD drives
- Virtual hard disk capacity up to 16 TB (Windows boot partition: max. 2 TB)
- 32-bit or 64-bit guest x86 architecture
- Up to 4095 virtual switches

### System requirements\*

- 64-bit processor (Intel 64 or AMD64) with Intel VT or AMD-V support
- Hard disk: 20 GB
- Two network interfaces
- Memory: 1024 MB
- Bootable USB stick or CD-ROM drive (for installation)

\*Minimum requirements for the base system. Memory and hard disk capacity for virtual machines must be added according to requirements..

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