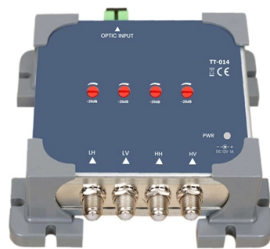


KVM Switch Virtualization



Article Overview

KVM can refer to either Kernel-based Virtual Machine, a Linux virtualization technology, or a KVM switch, a hardware device for controlling multiple computers from a single keyboard, monitor, and mouse.

KVM in Virtualization

KVM (Kernel-based Virtual Machine) is an open-source virtualization technology integrated into the Linux kernel that allows a physical Linux host to function as a hypervisor . It enables users to run multiple isolated virtual machines (VMs) on a single physical server, each with its own operating system, kernel, CPU, memory, and storage resources . KVM leverages hardware virtualization features like Intel VT-x or AMD-V for high performance and security . Key features include:

- Full OS virtualization: Each VM behaves like a standalone system, allowing custom kernels, modules, and software stacks .
- Resource isolation: CPU, RAM, and storage are allocated per VM, ensuring security and stability .
- Advanced management: Supports live migration, snapshots, NUMA optimization, and integration with tools like libvirt, virt-manager, and Proxmox VE .
- Security: Uses SELinux and sVirt to enforce isolation and prevent unauthorized access between VMs . KVM is widely used in server consolidation, cloud infrastructure, development, and testing environments, providing near-native performance and flexibility for Linux, Windows, BSD, and other guest operating systems

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