

3. Key Features of Hypervisors

Hardware Virtualization: Hypervisors abstract physical hardware, presenting virtual hardware to each VM, enabling the use of multiple operating systems and applications on a single physical machine.

Resource Management: Hypervisors efficiently allocate CPU, memory, storage, and networking resources to VMs, ensuring fair distribution and optimal utilization.

Isolation and Security: Hypervisors provide strong isolation between VMs, preventing one VM from accessing or affecting the data and processes of another, enhancing security and stability.

Snapshot and Cloning: Hypervisors offer snapshot and cloning features, allowing administrators to create point-in-time backups of VMs or duplicate VM instances for testing or scaling purposes.

Live Migration: Hypervisors support live migration, enabling VMs to be moved between physical hosts with little to no downtime, facilitating load balancing and hardware maintenance.

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