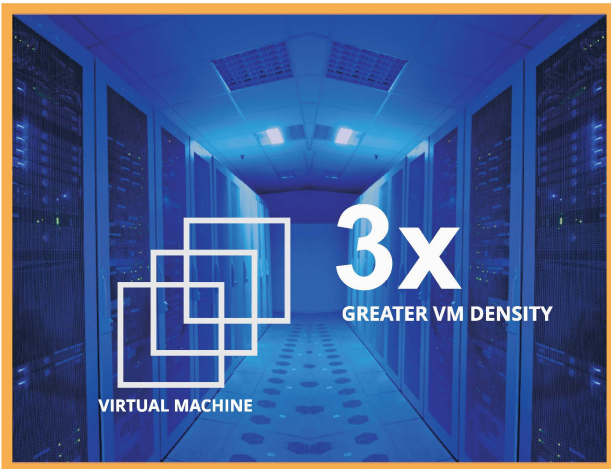
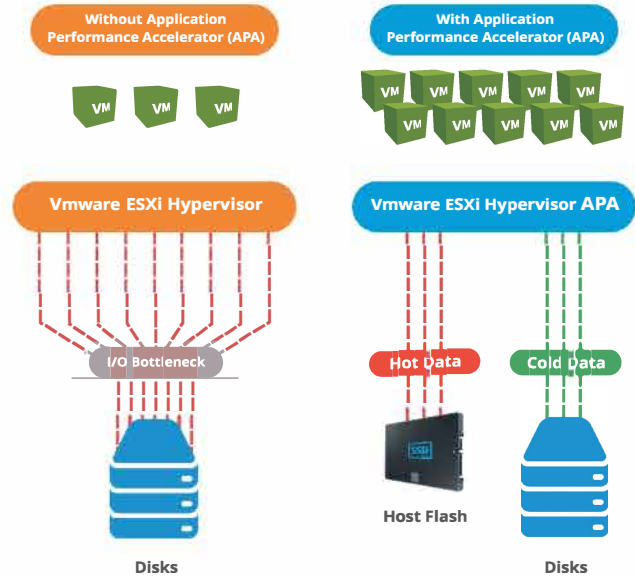


# Increase virtual machine (VM) density and efficiency by removing I/O bottlenecks

Application Performance Accelerator (APA) for VMware is an I/O caching solution designed to increase virtual machine (VM) density and accelerate business-critical applications in servers by eliminating bottlenecks. I/O bottlenecks are eradicated by transparently moving copies of frequently accessed data to server attached SSDs for quicker access. Application Performance Accelerator (APA) first writes data to the SSDs and subsequently copies it to disk drives, enabling the system to handle bursts of high read and write requests at SSD speeds instead of slow disk speeds. The technology requires no guest OS agents and supports virtually all types of SSDs including NVMe, SATA, and SAS SSDs.

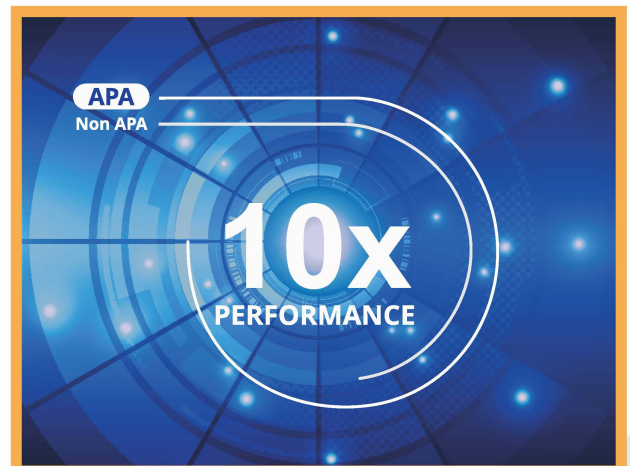


## Up to 3x greater VM density per server

APA achieves 3x greater VM density by removing traditional I/O bottlenecks in environments associated with multiple Virtual Machines (VMs) accessing storage resources, by transparently moving copies of the most frequently accessed data to SSDs where it may be accessed more quickly. APA supports both read and write-back caching. In write-back caching mode, data is first written to SSDs and subsequently copied to disk drives in the background, allowing the system to handle bursts of high write requests at SSD speeds instead of disk speeds.

## Up to 10x increase in application performance

APA optimizes applications' performance by leveraging the latest solid state technologies which are deployed as server side cache to hold the most frequently accessed data. APA also has the intelligence to unleash the performance of flash by efficiently managing the I/O blender that virtualized servers create.





## Reduced TCO

APA reduced the overall storage and caching costs in data centers by providing vertical integration from the storage device to the host. It provides performance close to All-Flash arrays at a fraction of the cost.

# Application Performance Accelerator (APA) for VMware

## Accelerate business-critical applications cost-effectively

- Supports write-back and read caching.
- Fault tolerant write-back caching with replication up to two nodes.
- Supports cluster-wide caching even when SSDs are not deployed on all the nodes.
- Zero downtime to enable caching.
- Supports VMware VAIO (vSphere APIs for IO Filtering).
- Does not need agents for guest OSs.
- Supports all types of SSDs: NVMe, PCIe, SAS, and SATA.
- Seamless integration with the hypervisor's management infrastructure.
- Supports block and NFS data storage.
- Supports all VMware value-added features such as VAAI, vMotion®, HA, DRS, and DPM.
- Provides VMware vCenter™ integrated UI.

## Minimum system requirements

- **Operating system:** VMware ESXi 6.0 U1 and later.
- **Processor:** 64-bit x86 processor with a minimum 4 cores.
- **DRAM:** Minimum 32 GB.
- **SSD:** Minimum 64 GB.

Please contact us for inquiries related to Application Performance Accelerator (APA)

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