McAfee MOVE AntiVirus: Optimized Security for Virtualized Environments

Security management and intelligence for virtualized desktops and servers

Virtualization is a key enabler of cloud computing. As enterprises embrace the cloud, they face increasing demand from more end users, more workloads, and more geographies. Capacity planning and resource allocation, while keeping the environment secure, pose unique operational challenges. McAfee® Management for Optimized Virtual Environments (MOVE) AntiVirus for virtual desktops and servers is uniquely designed to relieve the overhead of traditional endpoint security, yet provide the protection and performance essential for success.

Traditional Anti-Virus Is Resource Intensive

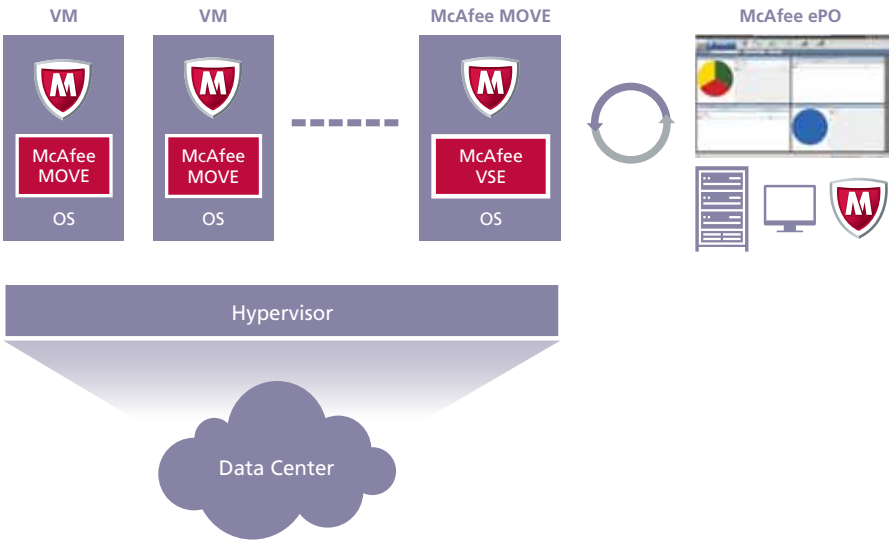
With today's advanced persistent threats (APTs) and the sophistication of malware, running endpoints without anti-virus is not an option. The need for constant protection has actually increased with the consolidation of data centers because activity at the endpoint is now closer to critical data and servers than ever before.

The dynamic nature of provisioning desktops and their overall load in a virtualized environment is hard enough to model, making capacity planning difficult. Anti-virus that is not designed for virtual environments makes this task even more complex. Even though the user desktop has been virtualized and can run traditional anti-virus software within the individual virtual machine (VM), the cumulative performance impact on the infrastructure can be profound. This directly affects the total number of virtual desktops that can be supported and decreases the expectations of operational returns.

How McAfee MOVE Anti-Virus Is Different

Whether you are deploying virtual desktops or well underway with server virtualization within your data center, McAfee MOVE AntiVirus provides optimized protection that specifically addresses the common problems encountered in virtualized environments with traditional anti-virus solutions. McAfee MOVE AntiVirus offers malware protection and security without compromising performance, so you get the most of this new technology while actively protecting your business data.

The scalability that can be achieved when anti-virus scanning is performed outside of the individual VM dramatically reduces resource requirements in the overall environment. McAfee enables customers to use McAfee VirusScan® Enterprise protection and optimize it for virtualized environments. McAfee MOVE AntiVirus is designed to support on-access scans, on-demand scans, and update functions within virtual desktop and server environments, providing options for protection in these environments. The McAfee MOVE AntiVirus solution supports all major hypervisors, delivering unprecedented flexibility while providing the manageability of virus scanning across physical and virtual environments with McAfee ePolicy Orchestrator® software.



McAfee MOVE Anti-Virus for Virtual Desktops

McAfee MOVE AntiVirus for virtual desktops provides continuous malware protection to virtual desktops and is highly effective at not degrading the user experience or impacting the load of the hypervisor. The unique approach to building and maintaining a cache of scanned files allows MOVE AntiVirus to avoid excessive scanning. This ensures common file sets are scanned only once. When a new file is encountered, the security diligence of file scanning is performed from the off-load server, ensuring the malware will be caught and stopped from entering the environment.

Thanks to McAfee Global Threat Intelligence™ (McAfee GTI™), the McAfee MOVE AntiVirus off-load server provides the most recent signatures, and it handles the offload processing of on-access scanning, updating each VM with the results. Memory resource allocation for each VM decreases and can be released back to the resource pool for more effective utilization. Regardless of a VM desktop's previous state, the McAfee MOVE AntiVirus off-load server ensures continuous protection through its active sessions.

Supporting VDI solutions of VMware View and Citrix XenDesktop, a lightweight endpoint component communicates to the McAfee MOVE AntiVirus off-load server to broker the anti-virus processing on behalf of each virtual desktop. Each VM can be configured with unique, individual policies set in the McAfee ePolicy Orchestrator® (McAfee ePO™) management console, or the VMs can be managed as a collective work group.

Because virtual desktops have as many configurations as physical desktops—from dynamic task-orientated workflows to persistent sessions supporting an enterprise's highly productive knowledge workers, it's important to add additional security for a layered security approach within these evolving environments. McAfee not only provides McAfee VirusScan Enterprise, we also include McAfee Host Intrusion Prevention and McAfee SiteAdvisor® Enterprise to help IT virtual desktop administrators provide advanced memory protection and protection from malicious URLs that might be accessed from these virtualized workflows. As virtual desktop infrastructure solutions change the way that enterprises deliver desktop computing, it's a perfect time to introduce McAfee SiteAdvisor Enterprise, which, through McAfee Global Threat Intelligence, provides visual status on the reputation of the websites being accessed. End users can now be on board with your organization's security strategy because they are

empowered to make better decisions about which websites they visit and they understand how their actions could potentially introduce malware or threats into the enterprise. However, even if the end-user activity results in encounters with malware, McAfee MOVE AntiVirus prevents the malware from doing harm with options for quarantine or detection from the workflow.

McAfee MOVE Anti-Virus for Virtual Servers

McAfee MOVE AntiVirus provides McAfee VirusScan Enterprise with improved security management specifically designed for virtualized environments. The solution is hypervisor aware, so that scheduled scans can be performed based on the overall load of the hypervisor. When diverse servers are deployed within a single hypervisor, critical operational activities are not disrupted due to unexpected resource issues.

McAfee MOVE AntiVirus for Virtual Servers extends protection of the VM for your full on-demand scans, even if they are not active. Virus scanning of offline VM images ensures that they are protected and ready to initialize immediately without the delay of virus scanning. For online and offline VM servers, MOVE AntiVirus allows protection and security policy management from McAfee ePO software, even if that VM dynamically migrates to other hosts for better operations management of the environment.

Supporting all major hypervisors, McAfee deploys a lightweight endpoint component that communicates to the McAfee AntiVirus off-load server to broker the anti-virus processing on behalf of each virtual server for servers needing continual on-access file scanning.

McAfee VirusScan Enterprise and McAfee VirusScan Enterprise for Offline Virtual Images are included with McAfee MOVE AntiVirus for Virtual Servers, providing options for addressing security for virtualized servers.

Operational Flexibility with McAfee MOVE AntiVirus

For today's systems, where 24/7 performance is a must, server virtualization allows for flexible provisioning and migration within hypervisors to accommodate resource requirements. Servers that are continually performing due to their service-level agreements can be protected with McAfee MOVE AntiVirus, which optimizes McAfee VirusScan Enterprise through hypervisor-aware scheduling, thus minimizing the overall operational impact of the security processing.

Next Steps

For more information about McAfee MOVE AntiVirus, please visit www.mcafee.com/virtualization, or contact your local McAfee representative or reseller.

McAfee MOVE AntiVirus Features	Virtual Desktops	Virtual Servers
On-access scanning	•	•
Hypervisor load aware ODS scanning		•
Offline virtual image scanning		•*
McAfee GTI file reputation	•	•
McAfee VirusScan Enterprise 8.8	•	•
McAfee ePO 4.6	•	•
McAfee Host Intrusion Prevention	•	Add-on purchase
McAfee SiteAdvisor Enterprise	•	Add-on purchase
Microsoft Hyper-V	•	•**
VMware ESX	•	•
Citrix XenServer	•	•

* Not supported for Citrix XenServer or Microsoft Hyper-V.

** Not supported for McAfee MOVE scheduler.

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