Symantec™ ApplicationHA

Virtualize business critical applications with confidence

Data Sheet: High Availability

Overview

As server virtualization adoption increases, IT needs to leverage the benefits of virtualization on business-critical applications; however, there are challenges with minimizing downtime associated with application failures within virtual machines (VMs). Symantec™ ApplicationHA addresses these challenges.

ApplicationHA provides high availability for business-critical applications through application visibility and control in VMware®, Red Hat® Kernel VM (KVM), IBM® AIX® Logical Partitions (LPAR), Oracle® VM on Solaris SPARC (earlier known as Solaris Logical Domains or LDOM) virtual environments. ApplicationHA enables administrators to safely virtualize business-critical applications with confidence by dramatically improving application availability. Through integration with VMware vCenter™ and Veritas™ Operations Manager, ApplicationHA significantly enhances application visibility and manageability in virtual environments and helps reduce operations and training costs.

Highlights

ApplicationHA leverages Veritas™ Cluster Server from Symantec, the market-leading, cross-platform, high availability, and disaster recovery solution to work in conjunction with the underlying VM high availability solution (VMware HA in VMware environments and Cluster Server in other virtualized environments) to provide comprehensive application availability in virtual environments. ApplicationHA and the VM high availability solutions protect VMs, as well as the applications that run inside them.

In the event an application fails, ApplicationHA coordinates the automated recovery of the application, and when appropriate can coordinate a VM reboot.

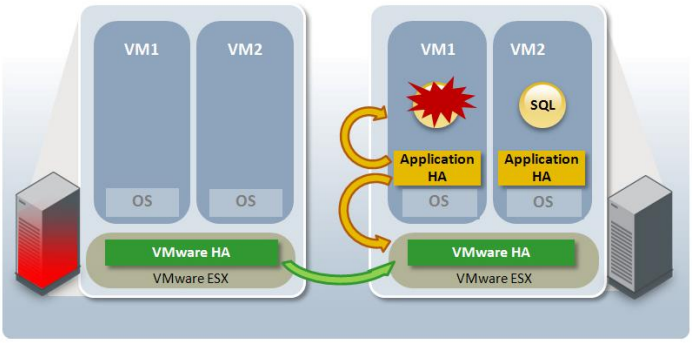
Benefits

- **Gain visibility and control of applications inside VMware VM**—Minimize risks associated with application downtime by monitoring not only the VMs, but also the applications running inside them.
- **Monitor hundreds of applications' health and recover from failures**—ApplicationHA monitors hundreds of applications and their services. In the event of a failure, it coordinates with the VM to restart.
- **Centrally manage applications**—ApplicationHA is fully integrated with Operations Manager, allowing administrators centralized management for all applications in physical and virtual environments.

In VMware environments, ApplicationHA provides the following additional benefits:

- **Coordinated VM reboot**—ApplicationHA provides automated application recovery and coordinates a VM reboot with VMware, when appropriate.
- **Simple administration with full integration with vCenter**—Reduce training costs and the need for additional tools through seamless integration with vCenter, which allows for centralized management and eliminates multiple management tools. From vCenter you can configure, monitor, start, and stop applications running inside VMs.
- **Improve availability without compromising on advanced VMware functionality**—ApplicationHA is fully compatible with VMware features such as VMware HA, vMotion™, Distributed Resource Scheduler (DRS) and VMware Fault Tolerance (FT).
- **Integration with image restoration software**—ApplicationHA is integrated with Symantec Backup Exec™ which restores a previous version of the VMs as remediation in the event of VM or operating system corruption.
- **Integration with VMware vCenter Site Recovery Manager™**—ApplicationHA is integrated with Site Recovery Manager to provide application awareness in a disaster recovery plan. When failing the VMs over to the disaster

recovery site, ApplicationHA continues to monitor the application health with the VMware HA cluster on the recovery site. Through this integration the application status is recorded in the compliance report generated during a Site Recovery Manager test or actual disaster recovery.



In Red Hat KVM, IBM AIX LPAR, and Oracle VM on Solaris SPARC virtual environments, ApplicationHA provides the following additional benefits:

- **Gain visibility and control of applications inside non-VMware VMs**— Veritas Cluster Server and ApplicationHA minimize risks associated with application downtime by monitoring not only the VMs, but the applications running inside them and provide automated application recovery to coordinate a VM reboot with Cluster Server, when appropriate.
- **Improve availability without compromising on advanced virtualization functionality**—ApplicationHA is fully compatible with virtualization capabilities such as Live Partition (LPAR), warm migration, and live migration.

Gain visibility and control of applications inside VMs

ApplicationHA provides visibility to applications running inside VMs to ensure high availability of business-critical applications. Applications can be monitored directly from vCenter (VMware only) or Operations Manager.

Improve availability without compromising with advanced virtualization capabilities

ApplicationHA is fully compatible with common VMware features such as VMware vMotion™, Site Recovery Manager, VMware Fault Tolerance (FT), Distributed Resource Scheduler, Oracle VM features such as Live Migration and Warm Migration and AIX Logical Partitions features such as Live Partition Mobility. ApplicationHA allows for the concurrent use of these tools, all while the application is still being monitored and protected. Users can move VMs without risking the application's protection.

Centralized management across physical and virtual environments

Managing both physical and virtual server environments can be challenging, especially when applications or entire business services are composed of multiple components, running on different physical and virtual tiers and interacting with each other. Virtual Business Services, powered by ApplicationHA and Cluster Server, simplifies multi-tier application management through Operations Manager and increases the availability of the entire service through automatic orchestration of application faults across dependent tiers. For VMware users, Operations Manager also provides another option to manage and monitor applications running inside VMware VMs without having to proliferate access to vCenter.

Supported Guest OS Platforms

VMware:

- Windows® Server 2003, 2003 R2 (32-bit)
- Windows® Server 2003, 2003 R2, 2008, 2008 R2 (64-bit)
- SUSE® Enterprise Linux 10, 11 (64-bit)
- RedHat® Enterprise Linux 5, 6.1 (64-bit)
- Oracle® Enterprise Linux 5 64-bit

Non-VMware

- Redhat® KVM (RHEL 6.1): RedHat® Enterprise Linux 5, 6.1 (64-bit)

- Oracle® VM for Solaris SPARC 2.0 (LDOM 2.0): Solaris SPARC 5.10
- IBM® Logical Partitions (LPAR): AIX 6.1

Selected Supported Applications

- Windows®: Microsoft® Exchange 2010, SQL® Server 2008, SQL® Server 2008 R2, IIS, Custom Applications
- Linux®: Oracle®, SAP®, WebLogic, Custom Applications
- Solaris: Oracle®, DB2®, Apache WebServer, Custom Applications
- AIX®: Oracle®, DB2®, Apache WebServer, Custom Applications

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