



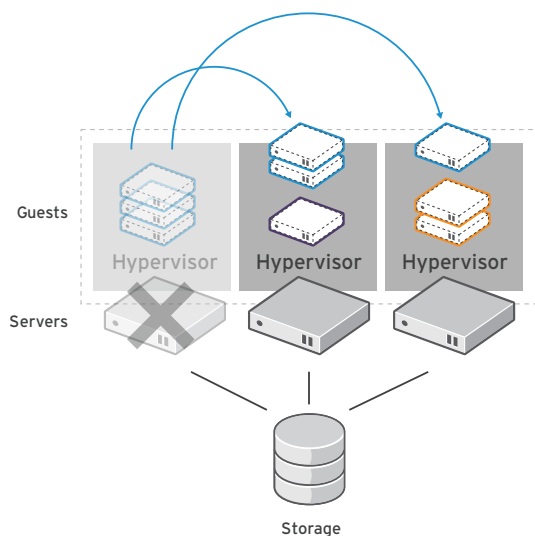
# RED HAT ENTERPRISE VIRTUALIZATION: HIGH AVAILABILITY

## WHAT IS HIGH AVAILABILITY?

Red Hat® Enterprise Virtualization now includes prioritized High Availability, which provides the foundation for building a highly available virtual infrastructure.

Red Hat Enterprise Virtualization Manager continually monitors the physical host systems. In the event of a hardware failure, any virtual machine configured to be highly available will be restarted on another host in the cluster. Three levels of priority allow administrators to ensure that the most critical workloads are restarted first.

### RED HAT ENTERPRISE VIRTUALIZATION MANAGER



As well as monitoring physical hosts, each virtual machine is monitored. If a virtual machine failure is detected, the virtual machine will be automatically restarted.

## REDUCE DOWN TIME

Red Hat Enterprise Virtualization High Availability will automatically restart virtual machines with no user intervention required. Within a matter of seconds, “high” priority

virtual machines, followed by “medium” and then “low,” are restarted on available hosts and the administrator receives notification. When the original host system is recovered, Live Migration can be used to “fail back” the virtual machine to its original host without any interruption to service.

High Availability is integrated with Red Hat Enterprise Virtualization System Scheduler to ensure that the virtual machine is restarted on a host selected based on its current resource utilization and in compliance with any workload balancing or power saving policies.

## HIGH AVAILABILITY FOR ALL APPLICATIONS

Due to the high cost and complexity of application fail-over and clustering solutions, usually only the most mission-critical applications within an organization are protected. With High Availability included with Red Hat Enterprise Virtualization, any application deployed within a virtual machine can be protected from hardware and software failures.

## STANDARDIZE: REDUCE COMPLEXITY

Many organizations deploy a mixture of high availability solutions using different technologies for each application and often for each operating system. Using Red Hat Enterprise Virtualization, organizations can deploy a single high availability solution for any application running inside a virtual machine, regardless of the operating system, Red Hat Enterprise Linux or Windows Server.

## REDUCE COST

Drive costs out of your infrastructure by using Red Hat Enterprise Virtualization High Availability, saving thousands of dollars per server in licensing costs compared to software-based high availability solutions.

Red Hat Enterprise Virtualization High Availability uses spare capacity in your cluster for failover, saving on the cost of dedicated standby hardware.

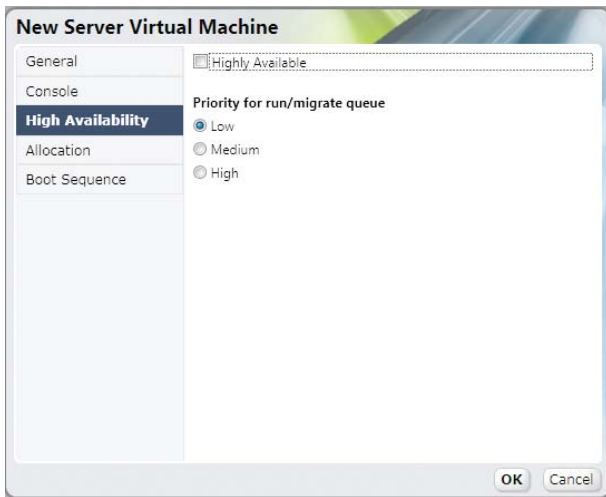


### “SINGLE CLICK” HIGH AVAILABILITY

With Red Hat Enterprise Virtualization High Availability, configuring a virtual machine to be highly available is as simple as clicking a checkbox and choosing a priority level.

With a single click Red Hat Enterprise Virtualization begins monitoring the virtual machine for failures. Alerts can be configured to notify operations staff and administrations in the case of failures.

#### HIGH AVAILABILITY ADMINISTRATION



### MORE THAN JUST FAILOVER

Building a highly available infrastructure is more than just monitoring for failure and restarting applications.

Red Hat Enterprise Virtualization is built on top of Red Hat Enterprise Linux, with a proven track record of providing a robust, secure and stable platform.

It protects against network failures by using network interface bonding for both improved throughput and redundancy.

Multipath I/O is used to improve storage throughput and to provide redundancy.

### HARDWARE REQUIREMENTS

Red Hat Enterprise Virtualization High Availability requires an out-of-band management interface, such as IPMI, Dell DRAC, HP iLO, IBM RSA, or BladeCenter, for host power management. In the case of a failure these interfaces are used to check the hardware status and physically power down the host to prevent data corruption.

### SOFTWARE REQUIREMENTS

Red Hat Enterprise Virtualization High Availability works with Red Hat Enterprise Linux versions 3, 4, and 5 and with Windows Server 2003 and Windows 2008.

High Availability is included with all editions of Red Hat Enterprise Virtualization.

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