



# RED HAT ENTERPRISE LINUX APPLICATIONS RUN BEST ON RED HAT ENTERPRISE VIRTUALIZATION

## RED HAT ENTERPRISE VIRTUALIZATION AND REAL-WORLD APPLICATION PERFORMANCE

What matters most to organizations moving their mission-critical workloads to virtualization is real-world application performance and scalability. So when Red Hat tested the performance of Red Hat Enterprise Virtualization, we didn't create artificial benchmarks or measure how many unrealistic virtual machines we could squeeze onto a single server. We created workloads that mirror what we see in our customers' datacenters every day and measured their performance and scalability under a realistic load.

## RED HAT ENTERPRISE LINUX AND RED HAT ENTERPRISE VIRTUALIZATION - THE BEST COMBINATION FOR ENTERPRISE APPLICATIONS

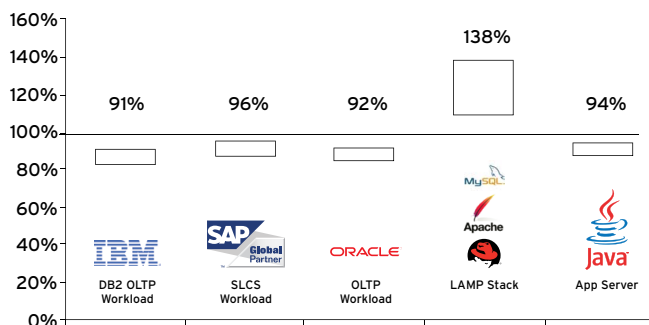
Red Hat Enterprise Linux is already the most trusted Linux platform for running mission-critical applications. By leveraging the performance, scalability, and security of the Red Hat Enterprise Linux kernel, the virtualization technology in Red Hat Enterprise Virtualization provides the logical choice for virtualizing your Red Hat workloads.

We compared the performance you get today running your enterprise applications on bare metal with Red Hat Enterprise Linux to the performance you can expect with running those same workloads on Red Hat Enterprise Virtualization. And we tested platforms like SAP, Oracle Database, IBM DB2, AMQP messaging, the Java application stack, and the LAMP application stack running real-world applications and real-world loads. We scaled single virtual machines up on a single server to measure how well single virtual machines perform, and we scaled out multiple virtual machines on the same server to measure how efficiently Red Hat Enterprise Virtualization consolidates servers. And everything we did, from the configuration of the hardware, to the virtualization settings, guest operating system settings, application settings, and client load characteristics, is all recorded in our Reference Architecture guides, available for you to download from redhat.com.

## THE BOTTOM LINE

Red Hat Enterprise Linux applications run best on Red Hat Enterprise Virtualization. For your enterprise applications designed with multi-threading and large memory management, Red Hat Enterprise Virtualization provides up to 96% or more of bare metal performance. And for applications based on the LAMP stack or other platforms that were not designed to scale up to take advantage of today's multi-core and high RAM servers, you can get better than bare metal performance by leveraging the power of server consolidation and application clustering.

## PERFORMANCE AND SCALABILITY\* OF REAL ENTERPRISE WORKLOADS ON RED HAT ENTERPRISE VIRTUALIZATION



\*Performance measured on a 16 core Intel Xeon 5500 in various configurations of VMs



## WHAT'S NEXT?

For more information on how Red Hat Enterprise Linux runs best on Red Hat Enterprise Virtualization, visit [redhat.com/promo/rhelrunsbestonrhev](http://redhat.com/promo/rhelrunsbestonrhev), or contact your local Red Hat Enterprise Virtualization reseller.

For more summary datasheets on the performance of Red Hat Enterprise Linux applications on Red Hat Enterprise Virtualization and for access to our Reference Architectures, visit [redhat.com/rhev/server/library](http://redhat.com/rhev/server/library).

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