

INTEL® XEON® SCALABLE PROCESSORS

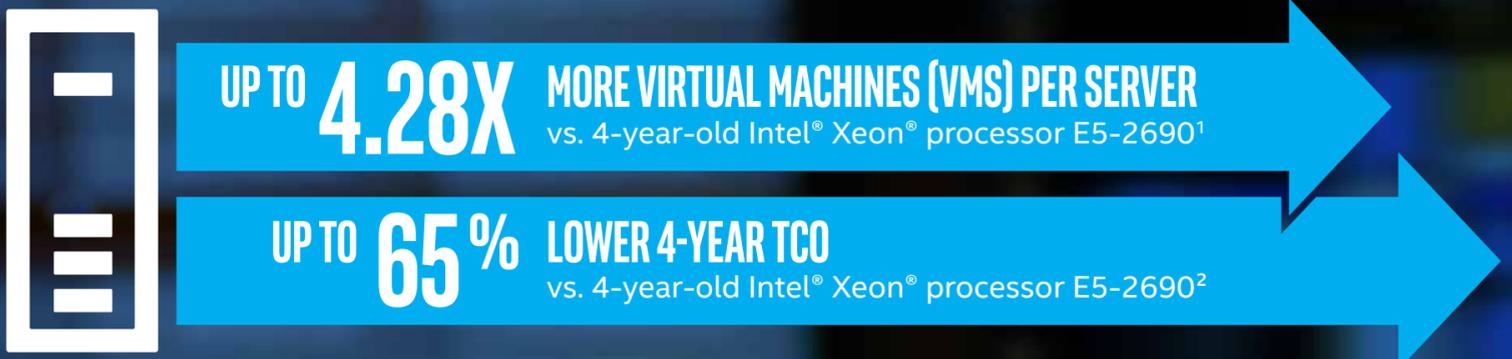
THE FUTURE OF VIRTUALIZATION IS HERE

The new **Intel® Xeon® Scalable processors** are making data center virtualization more powerful and efficient than ever before. By consolidating existing and emerging cloud workloads, businesses can get more out of every server—while also lowering the total cost of ownership.



MORE THAN A DECADE OF VIRTUALIZATION INNOVATION

Intel® Xeon® Scalable processors represent the culmination of more than a decade of innovation from Intel.



MODE-BASED EXECUTION CONTROL (MBE)

One of the new virtualization technologies built into **Intel Xeon Scalable processors** is MBE, which is designed to:



ENSURE THE INTEGRITY
of hypervisors



ADD AN EXTRA LAYER OF PROTECTION
from malware attacks in virtualized environments

TIMESTAMP COUNTER SCALING (TCS)



TCS is a new feature in **Intel Xeon Scalable processors** that provides more workload optimization for hybrid cloud than the previous generation by reducing the virtualization overhead of migrating VMs across CPUs with different base frequencies.

DO MORE WITH LESS

Find out how the **Intel Xeon Scalable processors** can help you lower total cost of ownership, get more performance out of virtualized workloads, and operate in a secure hybrid cloud environment. Visit www.intel.com/xeonscalable for details.

¹ Up to 4.28x more VMs based on server virtualization consolidation workload: Based on Intel internal estimates 1-Node, 2 x Intel® Xeon® Processor E5-2690 on Romley-EP with 256 GB Total Memory on VMware ESXi® 6.0 GA using Guest OS RHEL6.4, glassfish3.1.2.2, postgres9.2. Data Source: Request Number: 1718, Benchmark: server virtualization consolidation, Score: 377.6 @ 21 VMs vs. 1-Node, 2 x Intel® Xeon® Platinum 8180 Processor on Wolf Pass SXK with 768 GB Total Memory on VMware ESXi6.0 U3 GA using Guest OS RHEL 6 64bit. Data Source: Request Number: 2563, Benchmark: server virtualization consolidation, Score: 1580 @ 90 VMs. Higher is better.
² Up to 65% lower 4-year TCO estimate example based on equivalent rack performance using VMware ESXi® virtualized consolidation workload comparing 20 installed 2-socket servers with Intel Xeon processor E5-2690 (formerly "Sandy Bridge-EP") running VMware ESXi® 6.0 GA using Guest OS RHEL6.4 compared at a total cost of \$919,362 to 5 new Intel® Xeon® Platinum 8180 (Skylake) running VMware ESXi6.0 U3 GA using Guest OS RHEL 6 64bit at a total cost of \$320,879 including basic acquisition. Server pricing assumptions based on current OEM retail published pricing for 2-socket server with Intel Xeon processor E5-2690 v4 and 2 CPUs in 4-socket server using E7-8890 v4 – subject to change based on actual pricing of systems offered.