

NEED TO EASILY MIGRATE VMs FROM LEGACY INTEL® ARCHITECTURE?

AMD EPYC™ processors offer an outstanding solution.

AMD PROCESSORS ARE SMOOTH OPERATORS

Seamless automated cold-migration performance helps lower Capital Expenditure (CapEx), Operational Expenditure (OpEx), and total cost of ownership (TCO):

58% **46%** **54%**

lower CapEx¹

lower OpEx¹

lower TCO over a
three-year period¹

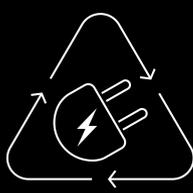
AMD HAS IT DOWN COLD: SEPARATE ENVIRONMENTS? NO PROBLEM

30 mins



Testing shows cold migration can be a glitch-free experience. Using the VAMT tool, Prowess Consulting migrated 40 virtual machines (VMs) from Intel to AMD hardware in less than 30 minutes.²

EXCEPTIONAL ENERGY-SAVING PERFORMANCE

45% 

Less estimated energy consumed can reduce power and cooling costs.³ Existing AMD EPYC™ processors power the most energy-efficient x86 servers in the industry.⁴

MAKE A BOLD MOVE

Migrate Intel processor-based VMs to new platforms based on AMD processors.

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¹Details: A 2P AMD EPYC™ 96-core 9654 CPU-powered server solution to deliver 10,000 units of integer performance takes an estimated: 5 fewer servers (6 AMD servers versus 11 Intel® servers) and 168 fewer cores, with a 46% lower annual OPEX and a 54% lower 3-year TCO than a 2P server based on the 60-core Intel® Xeon® Platinum 8490H CPU-based server solution. The hardware acquisition cost for the AMD solution is \$219,540, versus \$517,220 for the Intel® solution, for a CapEx savings of \$297,680 or 58% with the AMD solution.

²Prowess Consulting, "Can You Easily Migrate VMs from Intel® Hardware to AMD Hardware?" Commissioned by AMD, November 2022. <https://www.prowesscorp.com/project/migration-testing-from-intel-to-amd-hardware/>.

³Over the 3 years of this analysis, the AMD-powered server uses 45% less power with an estimated cost of \$45,720 versus the Intel®-based server's power cost of \$83,427, using a PUE of 1.7, saving \$37,707 over the 3 years of this analysis, with an estimated US power cost of \$0.16 / kWh. The 2P AMD EPYC™ core CPU solution also provides estimated greenhouse gas emissions avoided equivalent to 106.81 MTCO2e (117.74 US tons) over the 3 years of this analysis, which is 39.25 US tons of CO2 annually and is the equivalent of the sequestration equivalent of 43 acres USA forest annually. Environmental impact estimates were made by leveraging this data, using the Country / Region specific electricity factors from the "2020 Grid Electricity Emissions Factors v1.4 - September 2020" and the United States Environmental Protection Agency "Greenhouse Gas Equivalencies Calculator." For additional details, see <https://www.amd.com/en/claims/epyc4#SPSTCO-032>.

⁴EPYC-028: As of 2/2/22, out of SPECpower_ssj™ 2008 results published on the SPEC® website, the 55 publications with the highest overall efficiency results were all powered by AMD EPYC™ processors. More information about SPEC is available at <http://www.spec.org>. SPEC and SPECpower are registered trademarks of the Standard Performance Evaluation Corporation.