

Optimize Your Cloud Infrastructure With AMD

Powered by AMD EPYC™ Processors

AMD EPYC™ for Cloud: A Great Choice

- 150+ offerings with key CSPs globally
- Performance, capacity and value configurations
- Certified across wide variety of ISV partners with support for data analytics, enterprise apps, databases, devtest flows, HPC, and VDI workloads
- Growing global availability in Europe and Middle East



AMD EPYC – The Clear Performance Leader

170+ server world records across multiple platforms.¹



Designed to Run Modern Workloads More Efficiently

Modern CPU architecture with universal x86 compatibility.



Broad Availability Across Major Cloud Vendors

Migrate today with just a few clicks.

AMD EPYC Cloud Partners



C5a | M5a | R5a | T3a



Google Cloud

N2D | E2



IBM Cloud

BM 2x48 | BM 2x24



Dav4 | Eav4 | HBv2 | LSv2 | NVv4



E2 | E3 | BM 2x32 | BM 2x24

EPYC by the Numbers

AWS

UP TO

45%

Up to 10% less expensive than comparable EC2 instances with up to 45% less in Asia Pacific (Mumbai) Region.²

MICROSOFT AZURE

UP TO

24%

HB instances up to 24% faster than a leading bare-metal solution.³

GOOGLE CLOUD

UP TO

39%

Up to 39% performance improvement compared to comparable N1 instances.⁴



AMD EPYC Processor-Powered Virtualized and Bare Metal Instances From Leading Cloud Server Providers

| | AWS | Azure | Google Cloud | IBM Cloud | Oracle Cloud |
|--|---|--|--|--|--|
| AMD EPYC™ powered instances & VMs | C5a/C5ad (Compute Optimized) | Dav4 (General Purpose/ Compute Optimized) | N2D-highcpu (Compute Optimized) | | VM.Standard.E3 |
| | M5a/M5ad (General Purpose) | | N2D-standard | | VM.Standard.E2 |
| | R5a/R5ad (Memory Optimized) | Eav4 (Memory Optimized) | N2D-highmem (Memory Optimized) | | |
| | T3a (Burstable) | NVv4 (CPU + GPU for WVD, VDI and remote CAD) | | | |
| AMD EPYC™ powered bare metal servers | C5an.metalC5adn.metal2 x 48c up to 3.30 GHz | HBv2 (120 cores + 200Gbps IB) | | 2 x 7F7248 cores, up to 3.70 GHz | BM.Standard.E2.64 - 2 x 755164 cores, up to 3.0 GHz |
| | | | | 2 x 764296 cores, up to 3.30 GHz | BM.Standard.E3.128 - 2 x 7742128 cores, up to 3.4 GHz |
| Highlights | Optimized Cost & Performance | Excellent Performance & Scale | Largest GP VM, Available on Compute Engine⁴ | Ultimate Performance CPUs for IBM cloud | Performance & Optimized Cost |
| | Flexible Choice | Broad Application support | Balanced value and flexible machine types | Up to 4TB memory per socket | E3 has higher core count (OCPU) per VM compared to E2 ⁵ |
| | Up to 10% less than comparable EC2 instances with up to 45% less expensive in Asia Pacific (Mumbai) Region ² | Up to 80K cores for HPC workloads, with cloud's only 200Gbps HDR InfiniBand ³ | Up to 224 vCPUs for High performance ⁴ | Up to 24 local storage drives | VM.Standard E3 standard 158% increase in floating point performance compared to X7 standard ⁵ |
| | Seamless workload migration | HB instances 24% faster than a leading bare-metal solution with an identical InfiniBand network ³ | Up to 39% higher Coremark benchmark performance vs N1 instances ⁴ | Various OS support | Seamless Oracle Cloud Migration |
| | | GPU virtualization with no extra licensing costs for concurrent users | Up to 70% better memory bandwidth than comparable N1 instances ⁴ | | |

Ready to Make the Switch?

Contact your CSP or AMD Representative for a proof of concept.

1. For a complete list of world records see http://amd.com/worldrecords_ROM-169
2. Up to 10% for Worldwide regions : <https://aws.amazon.com/ec2/amd/>; Up to 45% For Asia Pacific (Mumbai) Region: <https://aws.amazon.com/ec2/amd/in/>
3. <https://azure.microsoft.com/en-us/blog/announcing-new-amd-epyc-based-azure-virtual-machines/>
4. <https://cloud.google.com/blog/products/compute/announcing-the-n2d-vm-family-based-on-amd> (N2D-standard-32 performed 39% better than N1-standard-32 when evaluated using Coremark.)
5. <https://blogs.oracle.com/cloud-infrastructure/announcing-the-launch-of-e3-standard-instance-on-amd-rome-architecture>