

Cloud leadership: Delivering epic cloud value and performance

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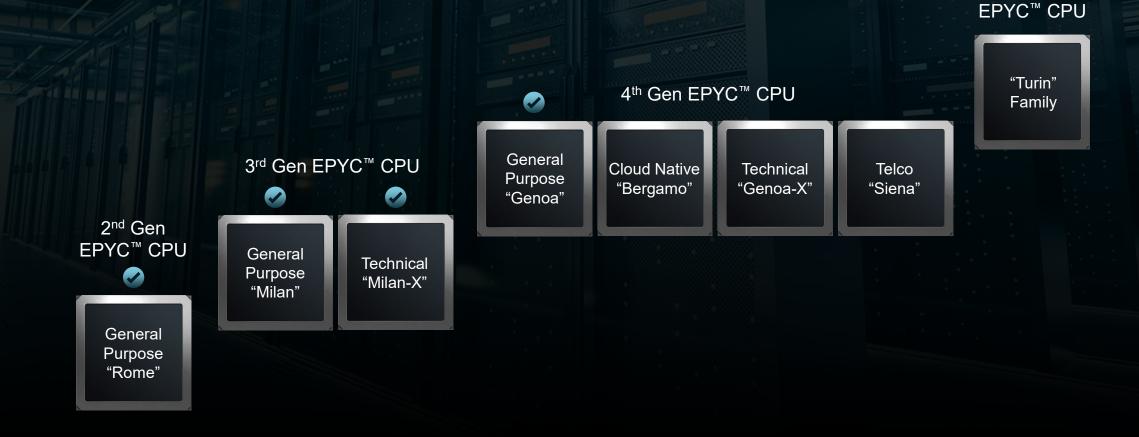
Greg Oakes Solutions

AMD computing powers the daily lives of billions

Cloud, Adaptable Gaming, 5G & Comms Artificial Smarter Simulation & Intelligent Enterprise Infrastructure Intelligence **Client Devices** & HPC Visualization Systems

AMD Data Center CPU Roadmap

Sustained High-performance Leadership







5th Gen

AMDA EPYC THE BEST GETS BETTER 300+ WORLD RECORDS AND COUNTING

DATABASES & ANALYTICS

Structured data and analytics Unstructured data and analytics

HCI/SDI/CLOUD

Cloud and Virtualization Integer Performance Cloud/VM/Integer Efficiency

Enterprise

ERP Business Apps Java[®] Based Performance Energy Efficiency

🙆 HPC

High Performance Computing Apps Floating Point Performance Floating Point Energy Efficiency





CLOUD

AMDA EPYC

Accelerating Enterprise Value with AMD EPYC[™] CPU BASED OCI VM's

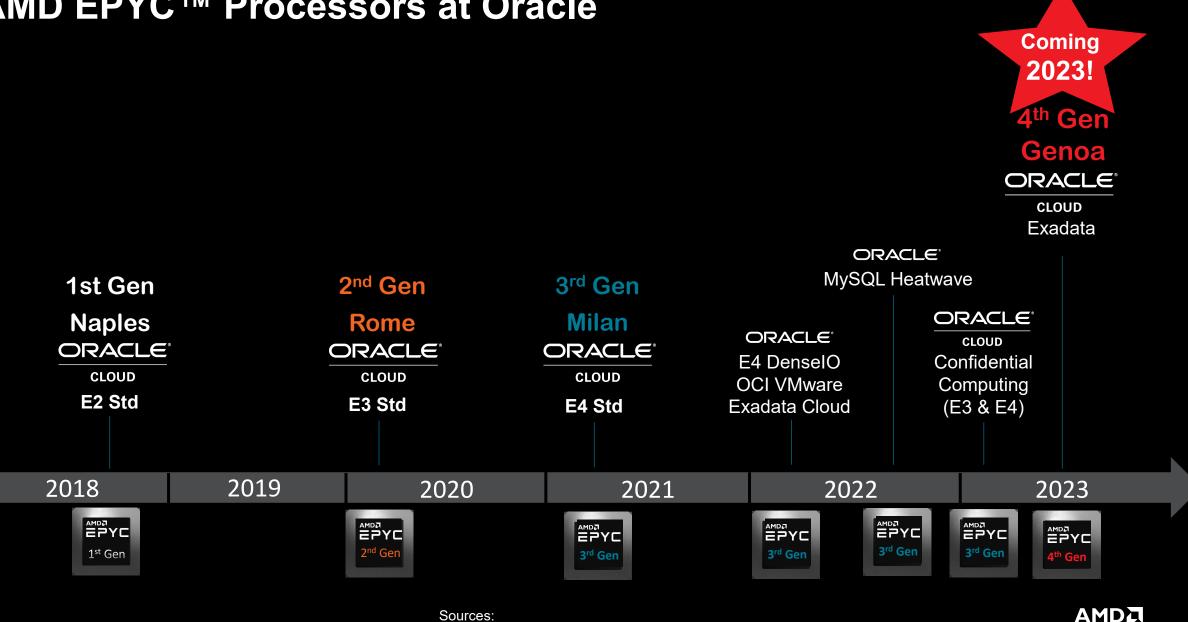
OUTSTANDING x86 PRICE/PERFORMANCE

INDUSTRY'S MOST FLEXIBLE, EASY TO USE INSTANCES

Sources: Announcing the Launch of Oracle Cloud Infrastructure Compute E3 Platform on 2nd Gen AMD EPYC Processors | IaaS Blog - Oracle Cloud Infrastructure News Announcing Oracle Cloud Compute E4 platform on third gen AMD EPYC processors | IaaS Blog - Oracle Cloud Infrastructure News



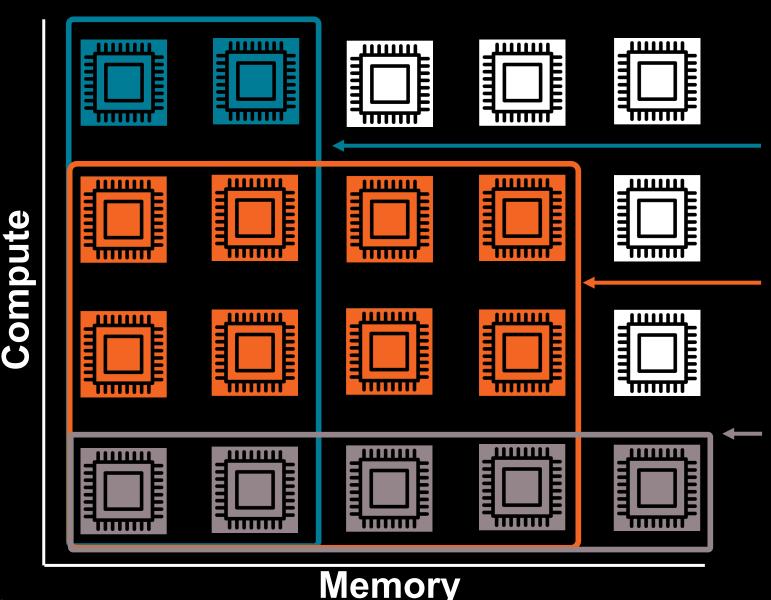
AMD EPYC[™] Processors at Oracle



Sources: Oracle and AMD announcement video Oracle 3rd Gen EPYC Based VMs - Launch blog

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Flexible Shapes Unlock Elastic and Efficient Compute



Competitors Fixed Shapes:

Provide fixed number of compute and memory resources, you pay for all

Media encoding workloads are compute intensive

With fixed shapes you may waste money on memory you don't need

Web server workloads require balanced compute and memory

But you may pay for extra compute and memory resources with fixed shapes

In-memory database workloads are memory intensive

You may have to waste budget on extra compute

Bottom Line:

With OCI's flexible shapes you only pay for the resources you need

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ORACLE + AMDR 2022 Launches



Accelerate Storage Optimized Workloads on 3rd Gen AMD EPYC[™] CPU Based OCI Instances



Helps accelerate database and big data analytics with 50% better price/perf vs. previous gen*

Significant network throughput, memory, and core advancements vs. previous gen*

E4 DenselO Virtual Machines and BM DenselO Powered by 3rd Gen EPYC[™] CPUs

Available worldwide

Large and fast SQL databases

Streaming, real-time analytics

Large transactional databases

Distributed NoSQL databases

Distributed file systems

*Sources: Announcing E4 DenselO instances with twice the performance for database and analytics workloads (oracle.com)

OCI's AMD Based E4 DenselO Compute Instances

Storage optimized compute instances

- Low latency, high IOPs, TLC based NVMe SSDs
- 60% better CPU performance than DenselO2 at lower cost
- Increased scale with 2.5X cores, 2.5X memory and 2X network compared to DenselO2

World-class performance for workloads that need low latency storage:

- Large Databases
- File services
- Bigdata and Data processing
- Transaction optimized workloads
- Oracle Cloud VMWare vSAN solution

Oracle Cloud VMWare Service : "With the new E4 Dense shape, Oracle Cloud VMware Solution can now provide customers with industry leading VM deployment options per SDDC host, for high cpu or high memory use cases. With over 2.5x the Memory and CPUs per host than competing offerings"

Shape	OCPU	Memory	Storage	Network
E4 DenselO	128	2048 GB	54.4 TB NVMe	2x50 Gbps

TIM Brasil selects Oracle and Microsoft to migrate all of its datacenter workloads to the cloud

"We are undergoing an important cloud transformation to improve our environmental, social, and governance practices. Using a multi cloud strategy, we are the first carrier in Brazil to move 100% of our workloads to the cloud. It includes moving our customer billing system, our CRM and VMware workloads to Oracle Cloud Infrastructure."

Pietro Labriola CEO, Tim Brasil

Source: Oracle Cloud



Oracle Cloud VMware Solution

The ideal platform for...



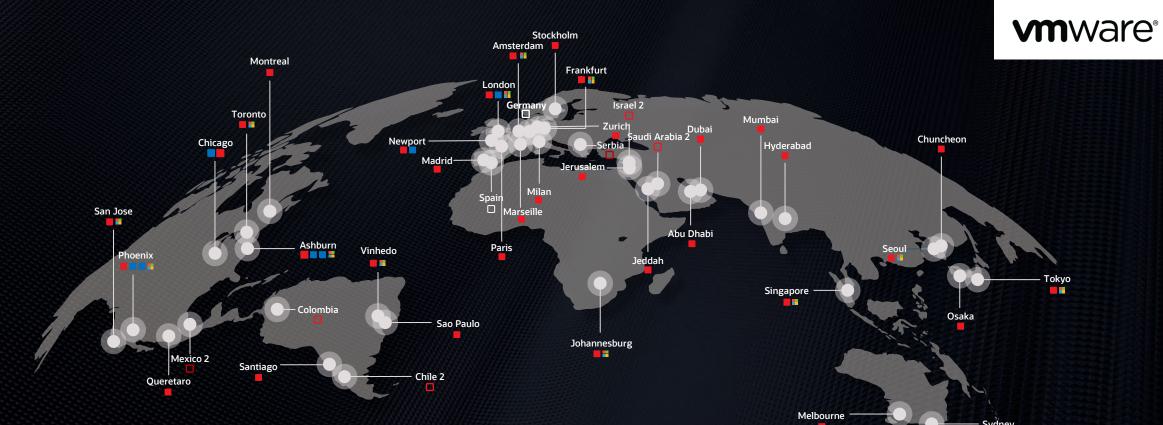
Delivers the same native VMware experience in the cloud with security, predictability and full administrative control

Oracle Cloud VMware Solution Shapes Powered by AMD EPYC[™] CPUs

E4.32 AMD	E4.64 AMD	E4.128 AMD	
32 Cores 2 TB RAM 54.4 TB NVMe	64 Cores 2 TB RAM 54.4 TB NVMe	128 Cores 2 TB RAM 54.4 TB NVMe	
New Workload	New Workload	New Workload	
VDI	VDI	VDI	
Small Workload		Massive Workload	
Memory Hungry +++	Memory Hungry ++	Memory Hungry +	
Storage Hungry +++	Storage Hungry	DC Exit	

Announcing the Oracle Cloud VMware Solution spring release

Everything, Everywhere, with Simple Pricing



ORACLE

Commercial

Commercial Planned

Sovereign Planned Interconnect for Azure

Government

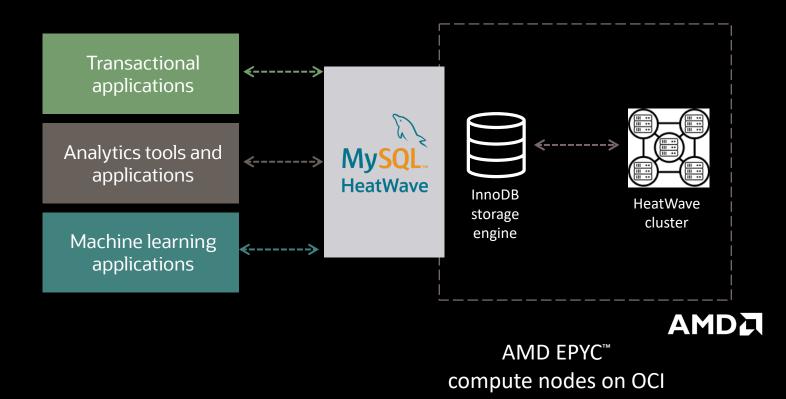
41 Oracle Cloud Regions + 8 planned

12 Interconnect for Azure regions Support for all workload types, at the same price, anywhere around the world

Source: Oracle

14

MySQL HeatWave – One database is better than many



One service for OTLP, OLAP, & ML No ETL duplication Unmatched performance, at a fraction of the cost Real-time analytics Improved security Applications work without changes

ORACLE CLOUD IAAS OFFERINGS POWERED BY AMD EPYC CPU'S



Notes:

- A burstable instance is a virtual machine (VM) instance that provides a baseline level of CPU performance with the ability to burst to a higher level to support occasional spikes in usage.
- Preemptible instances are the same as a standard instances, with one exception: If compute capacity is needed elsewhere, OCI can terminate preemptible instances after a short notice period. They are designed for running interruptible workloads at half the cost.

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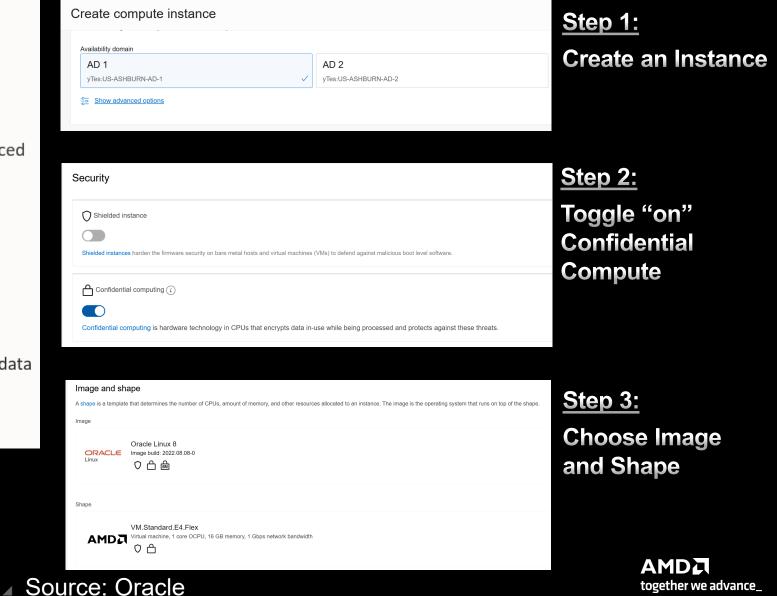
Q1CY23 - OCI Launches AMD EPYC Based Confidential Compute

Enhanced Security OCI Confidential Computing Advanced security to protect your data, included for free

- Protects data-in-use by encrypting it in memory with enhanced isolation using AMD Secure Encrypted Virtualization (SEV)
 - Data in memory isolated via encryption keys
 - No code change required for onboarding
 - Minimal performance impact across most workloads
 - Available at low or no cost to eliminate security tradeoffs

Workloads

- Enterprise workloads that process sensitive or confidential data requiring extra security protection for data-in-use.
- Workloads that leverage AMD shapes (E3 and E4) ٠



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Source: Oracle

Confidential Compute Targets



Financial Services

- Financial and credit records
- Secure credit card and bank transactions
- Anti-money laundering
- Credit risk assessment & qualification from combined bank records
- Capital markets
- Crypto and GSIB
- Fraud analytics



Privacy preserving digital transformation

Government

- Protecting IP
- Protecting classified data
- Medical data
- Critical infrastructure
- Ensuring compliance
- Judicial proceedings and case management
- Safeguarding vulnerable population protection



Healthcare & Life Sciences

- Protecting patient data
- HMO medical records
- Drug development
- Insurance fraud, waste, and abuse prevention
- Disease diagnostics

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