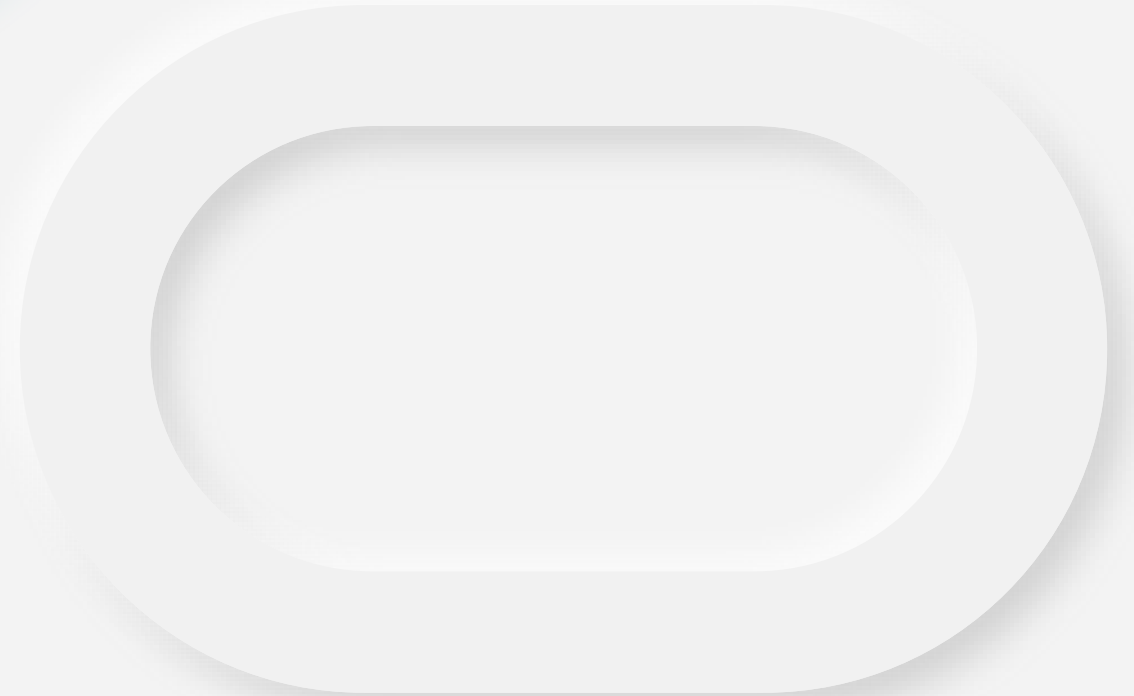


Practical Pathways to Oracle Cloud Infrastructure

Guide to Secure, Scalable, And Cost-Effective Cloud Adoption

Obakeng Pule

11 November 2025



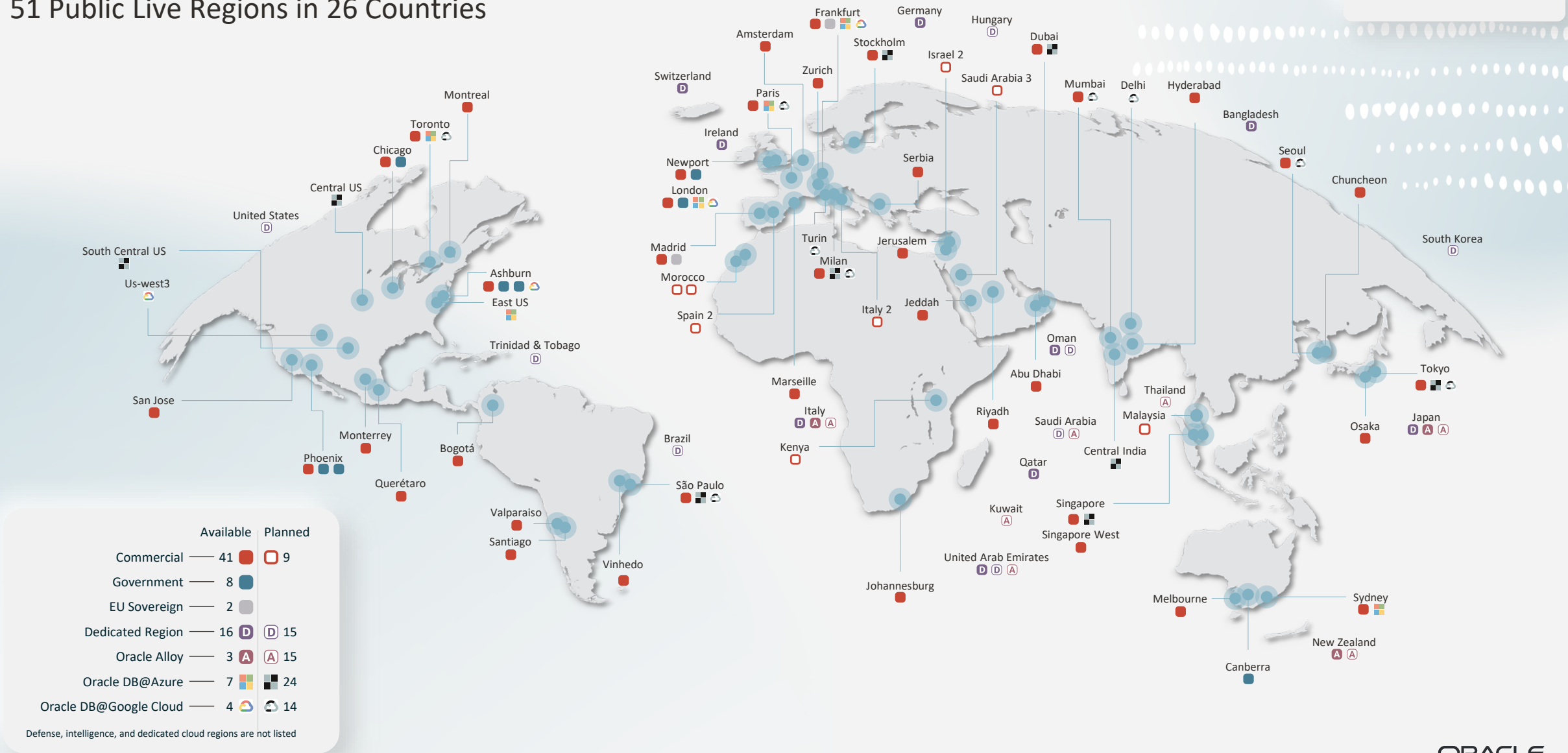
Agenda

- 1 Oracle OCI Global Footprint
- 2 What is OCI compute?
- 3 Compute Storage Options
- 4 High Availability and Disaster Recovery
- 5 Backup and Restore
- 6 OCI Defense-In-Depth
- 7 OCI Contracting & Success Story

Regional Deployment Strategy

51 Public Live Regions in 26 Countries

100% renewable energy by 2025



Distributed Cloud Portfolio

OCI enables you to address your location, operations, and regulatory needs

All 200+ OCI Services and up to 80+ compliance certifications

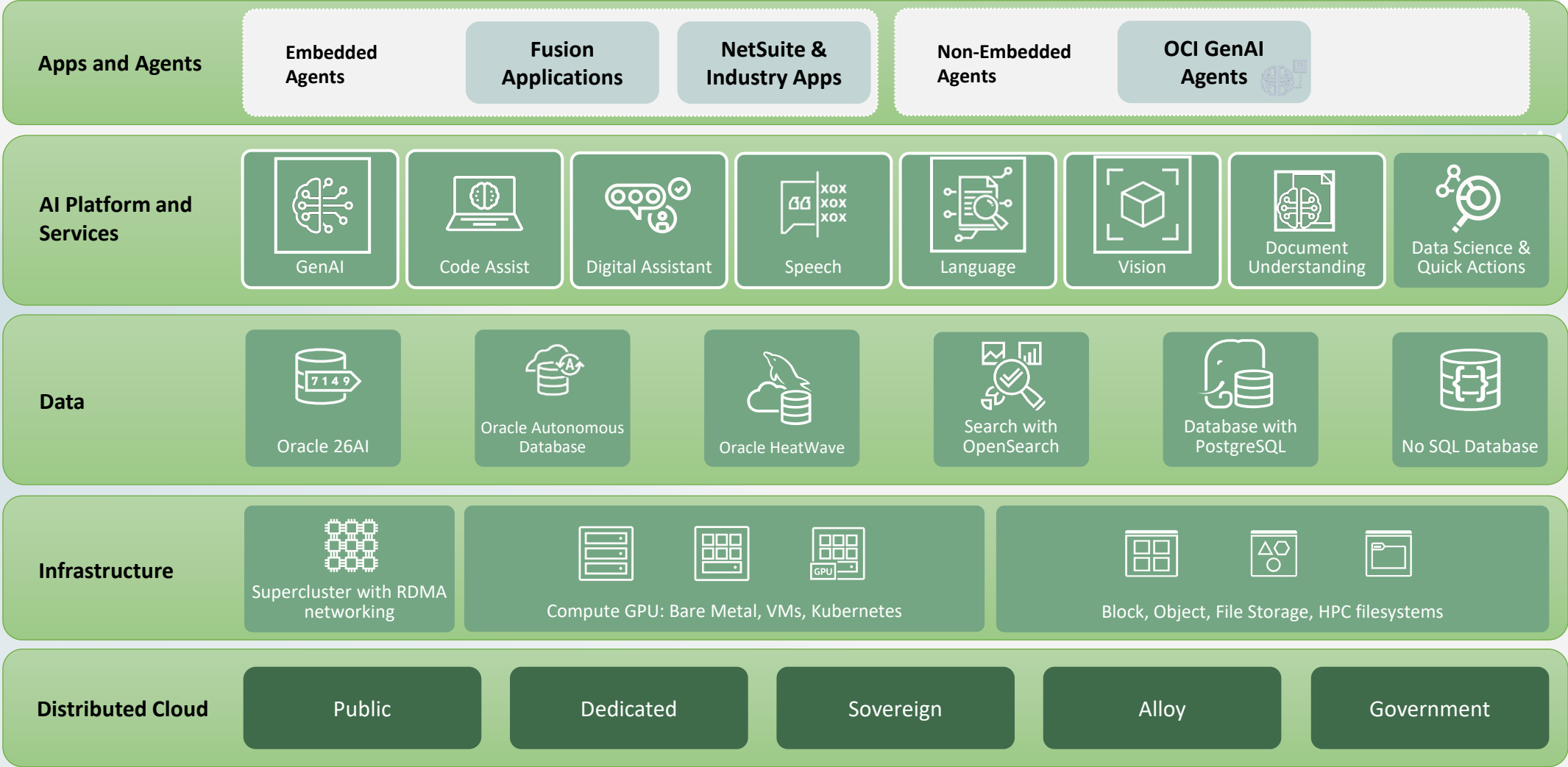
Any Organization

Government Regulated Use

		Any workload	Workloads restricted to a geopolitical area	Workloads restricted to government usage	Workloads requiring air-gapped high security
		Global operations Authorized personnel	Geographical ops Authorized personnel	Restricted ops Cleared personnel	Disconnected ops Cleared personnel
Oracle - Operated Data Center		 Commercial regions	 Sovereign regions	 Government regions	 Oracle National Security regions
Your Data Center	Cloud services for your organization	 Dedicated Region Cloud@Customer			 Isolated Region
	Cloud services for resale to your customers	 Oracle Alloy Provide cloud services with your logo to your end customers			

Dedicated Region and Oracle Alloy are not restricted to any region. They can be deployed for multiple use cases.

Oracle Cloud is Infrastructure, Platform, & SaaS in One Cloud



AI
Partners,
LLMs
& ISVs

OCI Helps You Leverage Your Existing Technology Investments

Use our managed open-source or run your 3rd party and open source on better infrastructure

Oracle Cloud Infrastructure

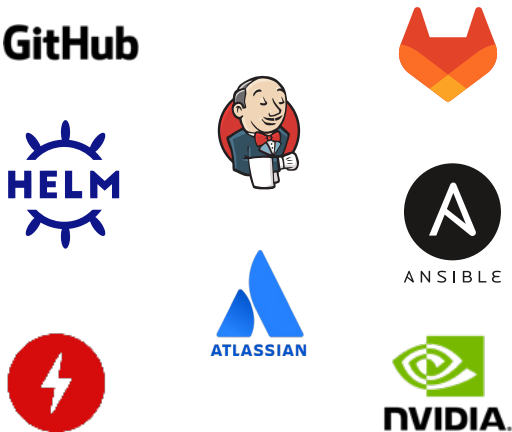
OCI-Managed Open-Source Services



Key Supported Tech & Integrations



Key Dev Tools

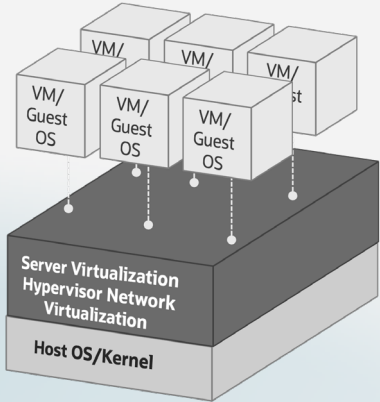


Security | Observability | Compliance | Messaging | Governance

Distributed Cloud

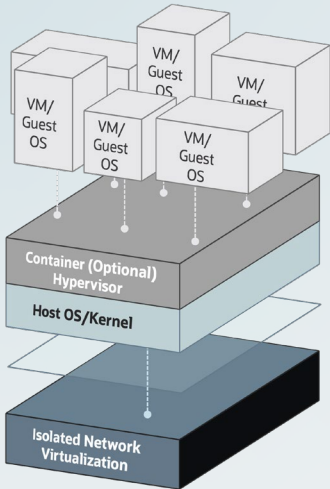
Commercial and Government Public Cloud Regions | [Cloud@Customer](#) | [Dedicated Cloud](#) | [Roving Edge](#) | [Multicloud](#)

OCI Core Infrastructure Stands Alone



**Gen. 1
Cloud Architecture**

Shared network design creates security and performance vulnerabilities



**OCI Gen. 2
Cloud Architecture**

Isolated network virtualization improves throughput and isolates security threats

Lower Cloud Costs

Lowest networking prices, ~10x to ~13x lower cost than competitors.
Lower pricing than competitors on compute
Financially backed network performance SLAs.
Enterprise services like support, security tools, Linux, Cloud Guard, & GraalVM included.

Improve Networking

Non-oversubscribed isolated network virtualization improves performance and throughput; eliminates noisy neighbor effect.
Low latency with RDMA cluster networking, L2 network virtualization, and nonblocking networks.

Scale to Growth

51 public OCI regions worldwide including key markets.
Flexible CPU infrastructure optimizes resources to meet workload needs
Establish dedicated cloud regions as small as 3 racks anywhere in the world.

Open is the Standard

OCI builds services using open-source technology when available .
Proprietary tools like Oracle database are made available on other clouds
Partnerships with Azure, AWS, and GCP lets you use the best of each cloud without high network fees.

Compute Instance Types

OCI offers two primary compute instance types: Bare Metal (BM) and Virtual Machines (VMs). Provides flexibility to customers to choose the right model for their performance, control, and isolation needs.



Virtual Machine (VM)

Shared infrastructure with secure hypervisor-based isolation.

Hypervisor managed by Oracle

Runs Linux or Windows Server VMs

Flexible CPU, and memory



Bare Metal (BM)

Isolated

Direct hardware access, no virtualization, maximum performance/security.

Runs Linux or Windows Server VMs

KVM, or Hyper-V can be deployed on BM

Access to all cores and memory in the BM



Dedicated Virtual Host (DVH)

Isolated

Direct hardware access

Hypervisor incl and managed by Oracle

Maximum performance/security.

Runs Linux or Windows Server VMs

Access to all cores and memory in the BM

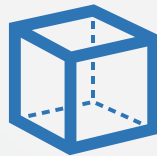
Shape Types

A shape is a template that determines the number of OCPUs , amount of memory, and other resources that are allocated to an instance.



Standard (Default)

Balance of cores, memory, and network resources.
For Intel, AMD, ARM



DenseIO

Includes locally-attached NVMe-based SSDs for large databases and big data workloads



GPU

Designed for hardware-accelerated workloads using NVIDIA.



HPC & Optimized

High frequency processor cores for HPC workloads, and solving complex problems

Shapes Applicable for both Virtual and Bare Metal Machines

OCI Compute: Much More Flexible



Burstable Instances

Subcore VMs that run at a fraction of the CPU with the ability to burst for short periods of time, at a lower cost than regular VMs



Preemptible Instances

VMs that run at 50% of the price of on-demand instances for interruptible or low-priority workloads



Capacity Reservations

To ensure capacity for critical events or unexpected spikes, reservations ensure capacity at 85% of regular resource costs reducing buffer capacity expenses



Shielded Instances

Hardened firmware and boot + platform security to defend against malicious boot level SW attacks.



Range of CPUs

Intel, NVIDIA, ARM and AMD-based compute offers the right better price performance for your workload



Virtual Machine Flexible Instance Sizing

Expanded support of Flex on more shapes for optimal efficiency for any workload; helps avoid wasted fixed shape spend



1. Pick processor



2. Select performance



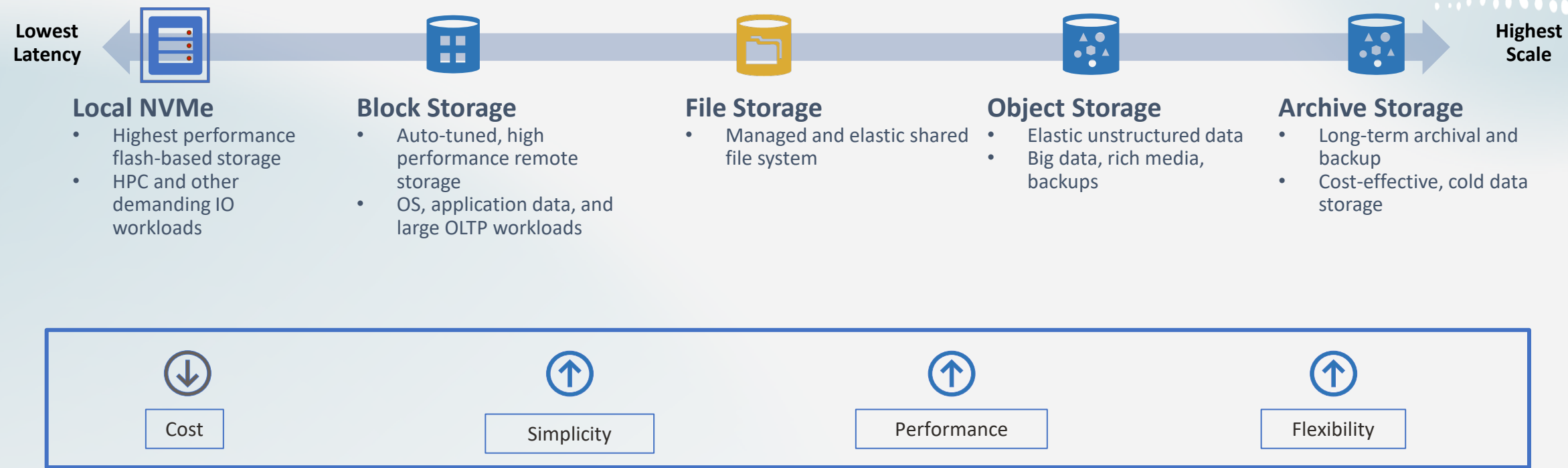
3. Select memory

4. Select storage performance (optional)



OCI Storage Options

High performance, flexible, scalable, and low-cost storage



Architectural Differentiation: Storage

Oracle Cloud Storage

- [Block storage service](#) – best scale and performance in the industry, and 5x - 20x cheaper than competition.
- [Dynamic Performance Scaling](#) – scales as you need, only pay for what is necessary – backed by a differentiated IOPS SLA.
- [File Storage Service](#) – scales elastically up to 8 Exabytes, and includes a differentiated performance SLA.
- Object Storage Service – [S3 compatible](#), works with Hadoop File Systems ([HDFS connector](#)), and provides [multiple tiers of storage](#) with industry's lowest access requests prices.



57%

Lower block storage costs than other CSPs

99.9%

(four 9s) file storage availability guarantee

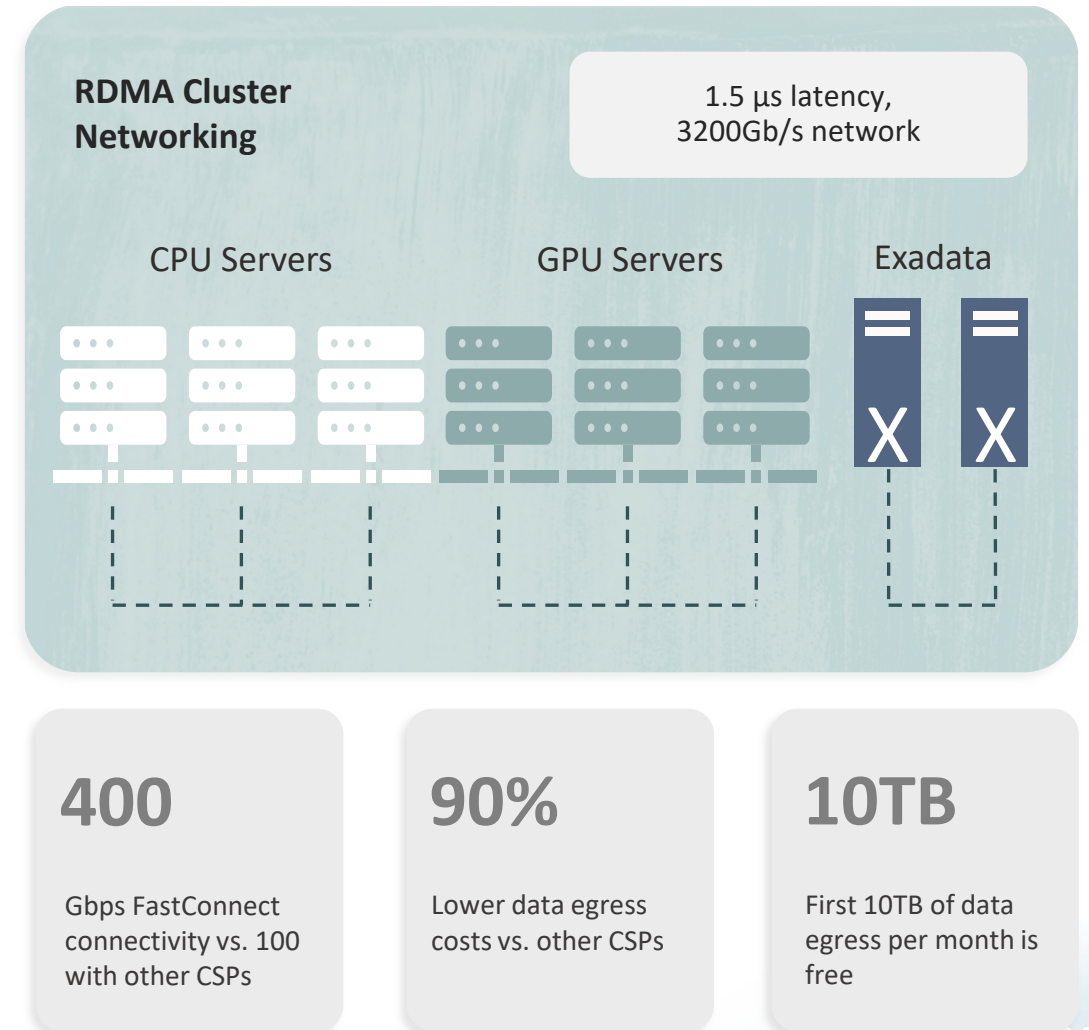
1/10th

OCI object storage request prices are 1/10th of AWS'

Architectural Differentiation: Networking

Oracle Cloud Networking

- Secure, low-latency, low jitter, and high-bandwidth network that brings the consistent throughput enterprise workloads require.
- High performance [network services portfolio](#) without burdensome utilization charges that inhibit technical design.
- Up to [400Gbps dedicated connectivity](#) using [Oracle FastConnect](#) – 4x higher bandwidth with lower operational overhead relative to competitive clouds.
- Enterprise-grade [network firewall](#) powered by industry-leading Palo Alto Networks tech stack.



Backup and Restore



Block Storage
Cloning



Object Storage



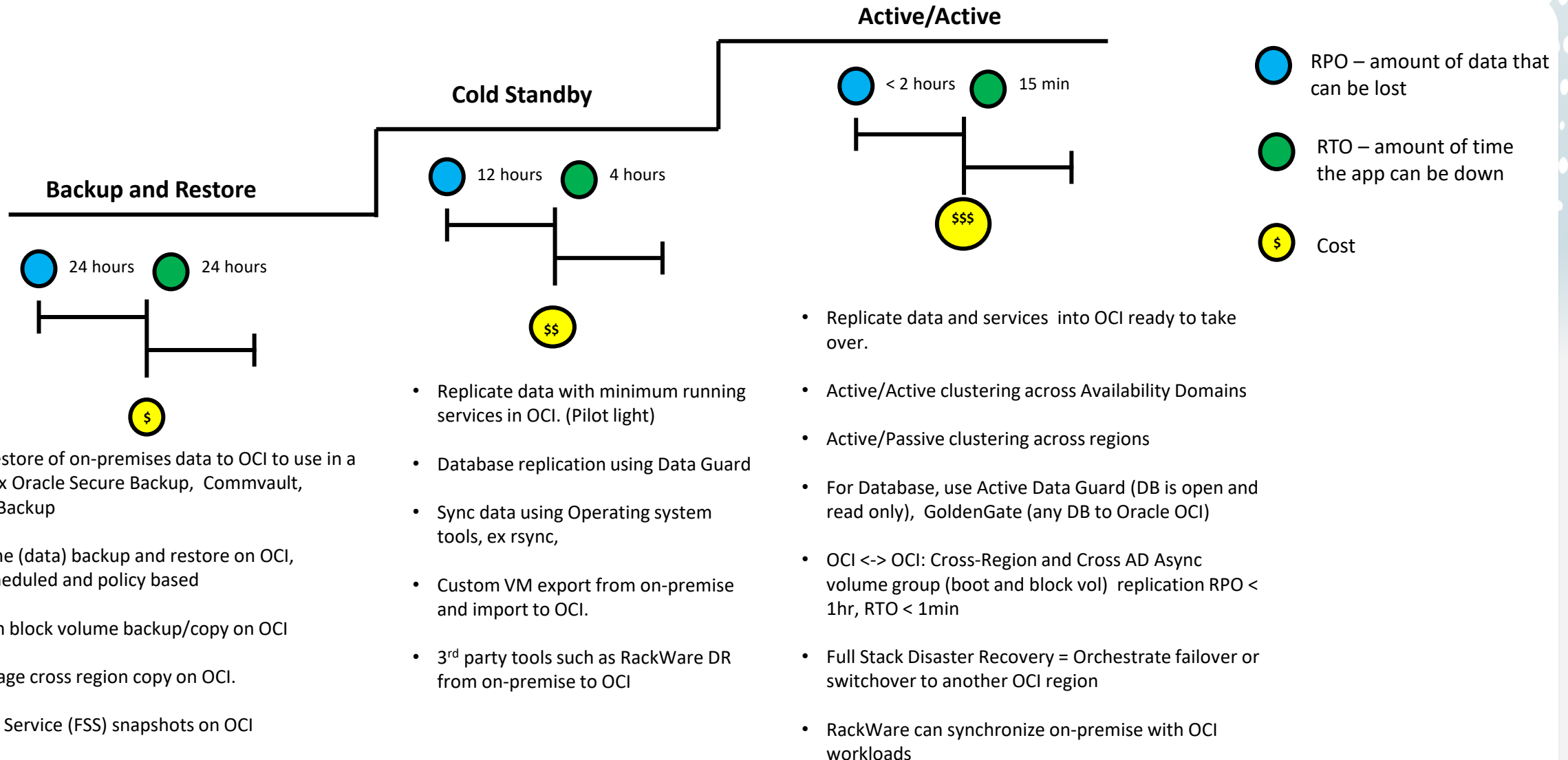
File Storage

- **Console built-in tools** to backup and restore data:
 - Backup boot volume (operating system) using OCI Block Volume service
 - Backup Block volume (data) and restore on OCI, manual, scheduled and policy based
 - Cross region block volume backup/copy, ex building1 to building2
 - Object Storage cross region replication of buckets using replication policy.
 - File Storage Service (nfs) snapshots on OCI, and/or use rclone to copy data to DR region
 - Export VM back to on-premise
- File level Backup / Restore of compute instances using **existing backup solution installing agents on Compute instance**
 - Use existing backup solutions such as Oracle Secure Backup, Commvault, Veritas NetBackup and install agents on VM compute instances
 - Backup to Object Storage using Oracle Cloud S3 Compatible API (Standard tier).
 - Use OS tools such as rsync & robocopy
- Best practices framework provided by Oracle to protect data
 - Example: Mirror locally attached NVME
 - Replicate files using rsync & robocopy





Disaster Recovery Options for Applications and Technology

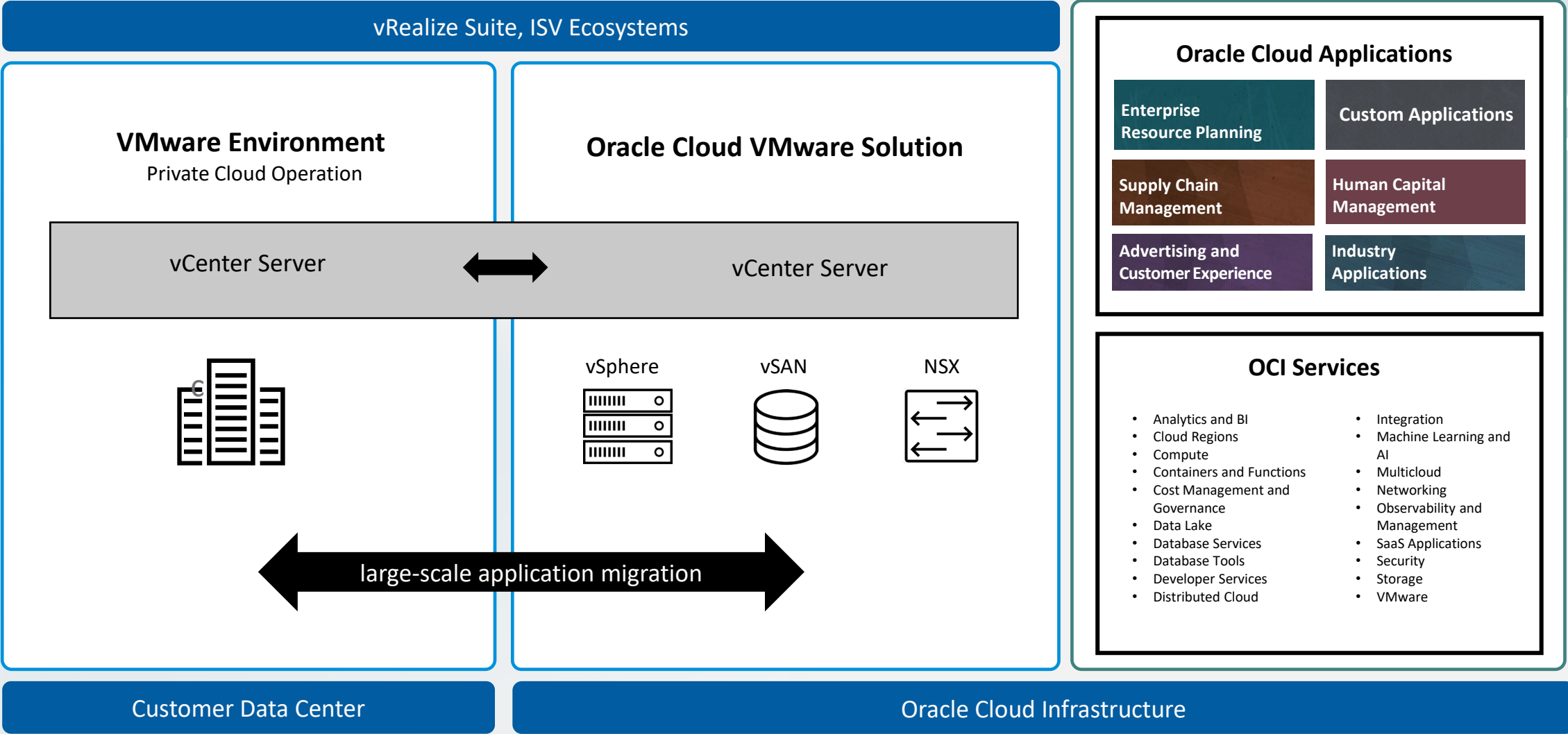


Oracle Cloud VMware Solution (OCVS)

A complete platform
for your VMware workloads

Oracle Cloud VMware Solution

A complete platform for your VMware workloads

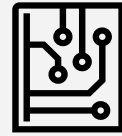


Core OCI technologies were designed to run VMware



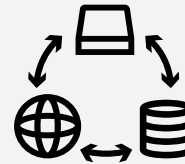
Off-box virtualization

Complete instance isolation for higher security and performance



Custom security chips

Zero-trust approach to keep you safe from other tenants



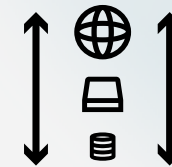
Non-blocking networks

Cloud networks designed to match dedicated on-premises networks



L2 network virtualization

Cloud networking to natively support VMware, Oracle Database, and other clustering architectures



Flex infrastructure

Online infrastructure scales up and down resources without application rewrites

Improved customer control and governance

Retain full control of your dedicated VMware environments



Full root access and administrative control



Full capabilities of VMware features



Control of end-to-end network settings



Control of patching & upgrade

Key Use Cases

Oracle Cloud VMware Solution is the ideal platform for enterprise VMware use cases



Data Center Exit



Disaster Recovery



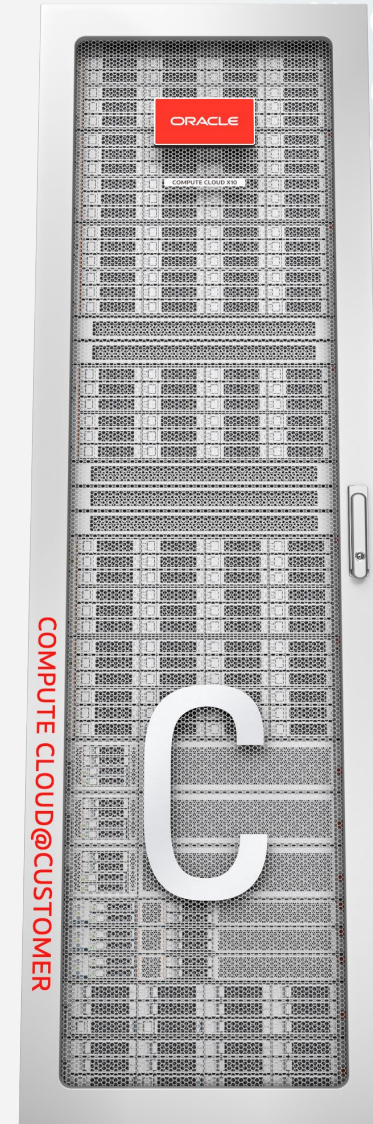
Hybrid Cloud and Capacity Expansion



Virtual Desktop Infrastructure (VDI)

Oracle Compute Cloud@Customer

Run OCI Compute anywhere

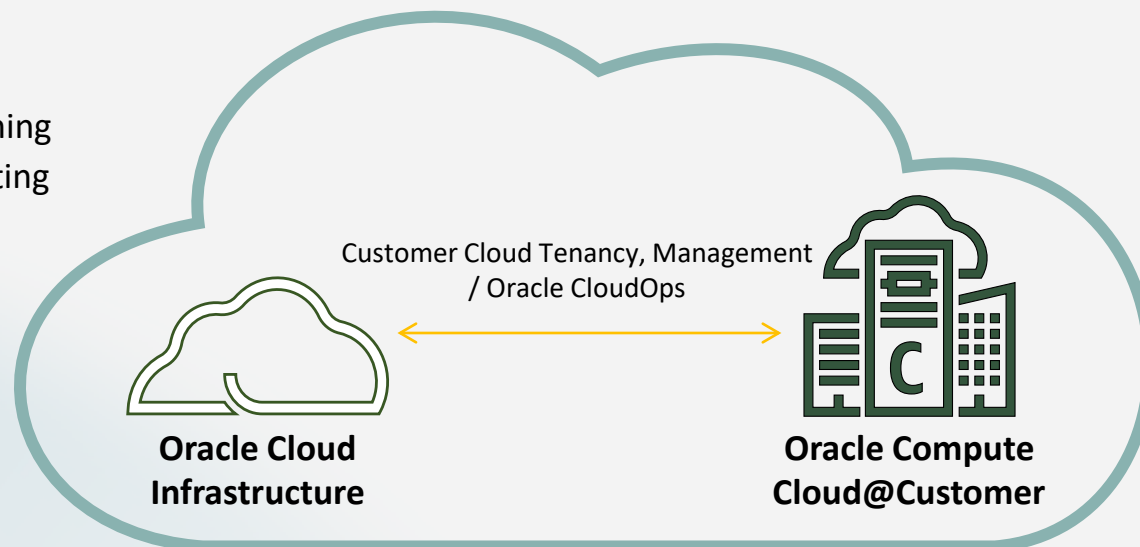


Oracle Compute Cloud@Customer

OCI Compute in One Rack

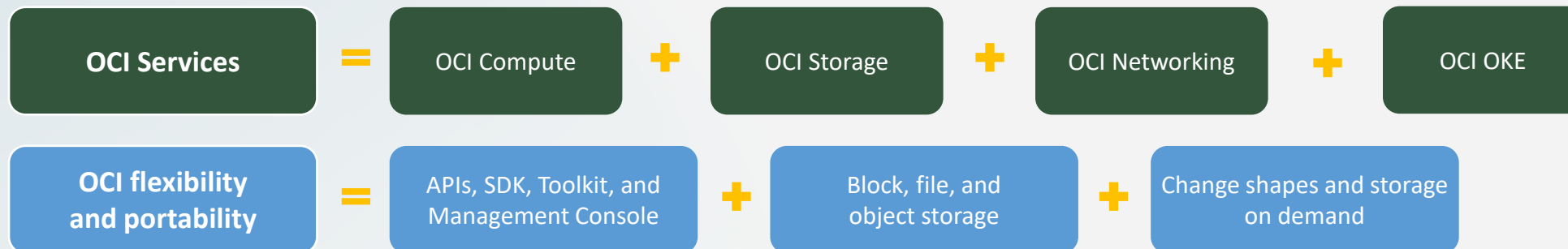
OCI

- Security monitoring and patching
- Resource metering and reporting
- Dynamic flexibility
- Universal Credits



In your data center

- Data control: Meets all data residency regulations
- Resiliency: Remains operational if disconnected from the Internet



5 reasons to enhance your cloud journey with Oracle

Oracle meets you where you are with public cloud services, economics and service levels

**Oracle Compute
Cloud@Customer**



1

End-to-end single vendor solution

2

Native Cloud Experience with OCI in your data center

3

Highly Portable- infrastructure as code

4

Hypervisor Included – no virtualization costs

5

Meet data residency, security, and latency requirements

OCI Security Posture: Defense-in-depth

A full stack of cybersecurity capabilities built-in



OCI's Approach To Contracting In The Cloud

Universal Cloud Credits

OCI credits can be used as currency and debited to any service, at any time, out of any region (excluding GPUs).

Global Pricing Standardization

Consistent low pricing across all regions and deployment methods such as GovCloud and Dedicated Region

Flexible Infrastructure

Unlike standard S, M, L t-shirt sizing, OCI offers flexible CPU infra ("tailor-made") – pay for exactly what you use.

Included Enterprise Services

OCI doesn't charge for enterprise support, security tools, Enterprise Linux, Cloud Guard, or GraalVM

Price Protection

Price and discounts are set for the contract term, overages at same discount level, no cost to upgrade to next gen CPU shape

Uber

Uber uses OCI for 14 million predictions/second

Uber makes approximately 33 million trips per day

Uber modernized its application tier and **AI infrastructure** with thousands of microservices

Dozens of AI models run on OCI for **inference**

AI Infrastructure **speeds responses** to trip requests, reducing latency and optimizing routes

Can easily **scale AI infrastructure** with future growth

[Read the press release](#)



“Collaborating with Oracle has allowed us to innovate faster while managing our infrastructure costs. With OCI, our products can run on best-of-breed infrastructure that is designed to support multicloud environments and can scale to support profitable growth.”

Kamran Zargahi, Senior Director, Tech Strategy and Cloud Engineering, Uber

ORACLE

Zoom Uses OCI to Power its AI-first Platform in Saudi Arabia

Zoom report approximately 300 million daily participants

Zoom AI Companion uses OCI unique **GPU offering for inferencing**, data, and AI sovereignty capabilities

Zoom optimized its AI models to run on **efficient OCI GPU shapes** with top-tier performance while staying compliant with Saudi Arabian regulations

“By optimizing AI Companion to operate efficiently with **GPU shapes in a local OCI region**, we’re enabling Saudi companies to take full advantage of AI without facing constraints.”

Velchamy Sankarlingam, President of Product and Engineering, Zoom

[Read the press release](#)



Miranda Nash, GVP, Oracle and XD Wang, CTO, Zoom

Q & A



Thank you

