ORACLE

Oracle Cloud Summer Camp

Introdución a Oracle Cloud
2 julio 2020

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Speaker

Jesús Guerra
WEDO Team Director, Oracle

Borja Gómez
Business Development Manager for Spain, Oracle

Luis Nogueira
Cloud Specialist, Oracle

Safe harbor statement

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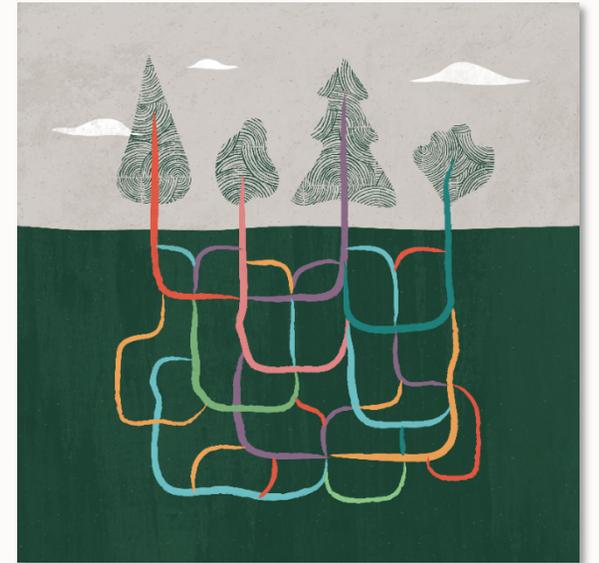
Introduction to Oracle Cloud | Agenda

10:00 – 10:10   Welcome

10:10 – 10:30   Oracle Cloud Introduction

10:30 – 11:00   Oracle Cloud Architecture

11:00 – 12:00   Walkthrough console and demo

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Oracle Cloud in 8 Steps | Agenda

2nd Jul   **Getting started with Oracle Cloud**

Jesús Guerra, Borja Gómez

3rd Jul   **Security and Compliance with Oracle Cloud**

David Núñez, Juan Carlos Díaz

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16th Jul   **Cloud-Native Application modernization with Oracle Cloud**

Iván Sampedro, Borja Gómez

Scan to see all events

Format

Day of the event

1. Topic Presentation
2. Demo
3. Live Q&A Chat

—

Post event | During the week

4. Hands-on @home
5. Need help? Dedicated group on LinkedIn (https://bit.ly/2NCCp7P)

—

Participation to different event steps is optional

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Oracle helps businesses solve their biggest challenges

Record financial transactions

Improve customer experience

Build better products
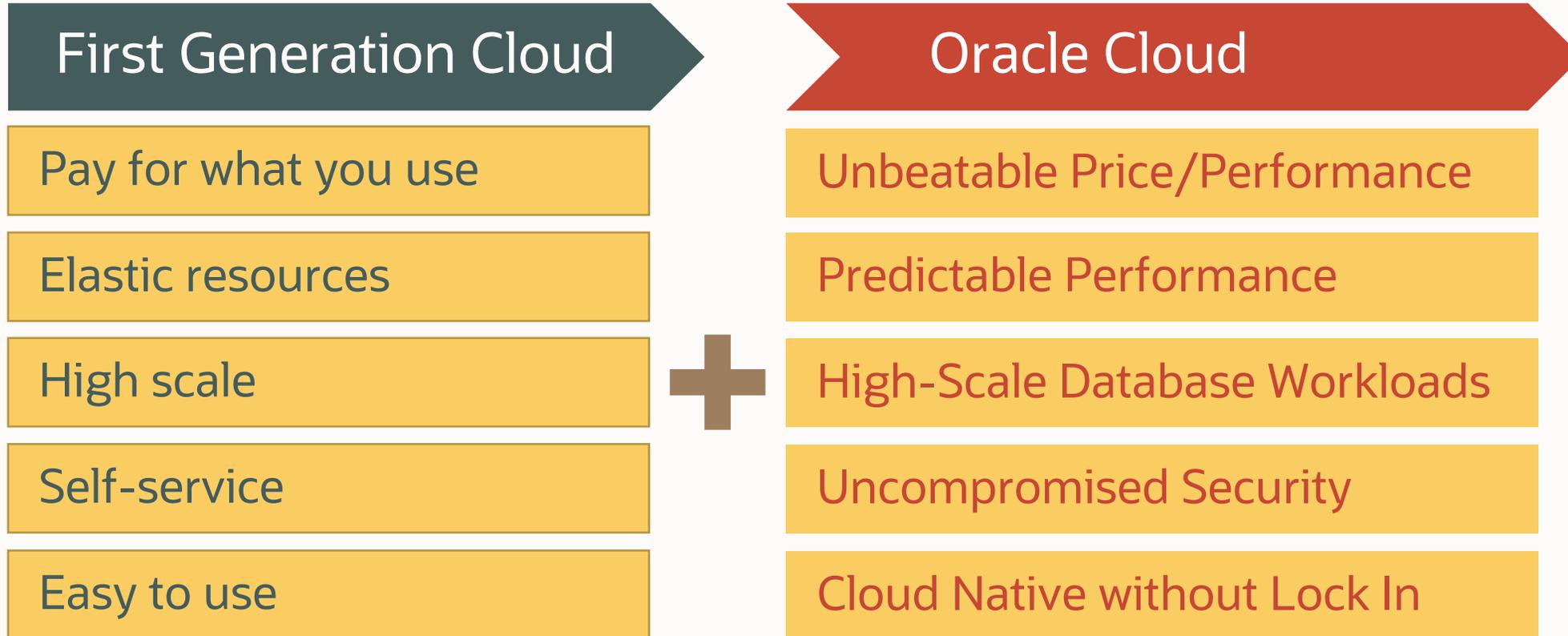
Understand insights from data

Foster innovation

Accelerate critical processes

Designed for mission-critical, enterprise workloads

First Generation Cloud	Oracle Cloud
Pay for what you use	Unbeatable Price/Performance
Elastic resources	Predictable Performance
High scale	High-Scale Database Workloads
Self-service	Uncompromised Security
Easy to use	Cloud Native without Lock In

+

Oracle Cloud Infrastructure Global Footprint

LONDON
NEWPORT, WALES
AMSTERDAM
FRANKFURT
ZURICH
EUROPE
CHUNCHEON
SEOUL
TOKYO
ASIA
OSAKA
MONTREAL
TORONTO
CHICAGO
SAN JOSE, CA
PHOENIX
US GOV
ASHBURN
ISRAEL
DUBAI
JEDDAH
UAE 2
SAUDI 2
MUMBAI
HYDERABAD
SINGAPORE
VINHEDO
SAO PAULO
JOHANNESBURG
SANTIAGO, CHILE
SYDNEY
MELBOURNE

Commercial
Commercial Planned
Government
Government Planned
Microsoft Azure Interconnect
Microsoft Azure Interconnect Planned

Oracle Cloud – Complete Cloud Strategy

Oracle Fusion Applications

| Financials | Supply Chain & Manufacturing | Human Resources | Sales | Service | Field Service | Marketing | Data |

Oracle Cloud Infrastructure

Autonomous DB	Integration	Analytics	Security	App Dev
	Compute	Networking	Storage	

15 PUBLIC REGIONS   **6 GOVERNMENT REGIONS**
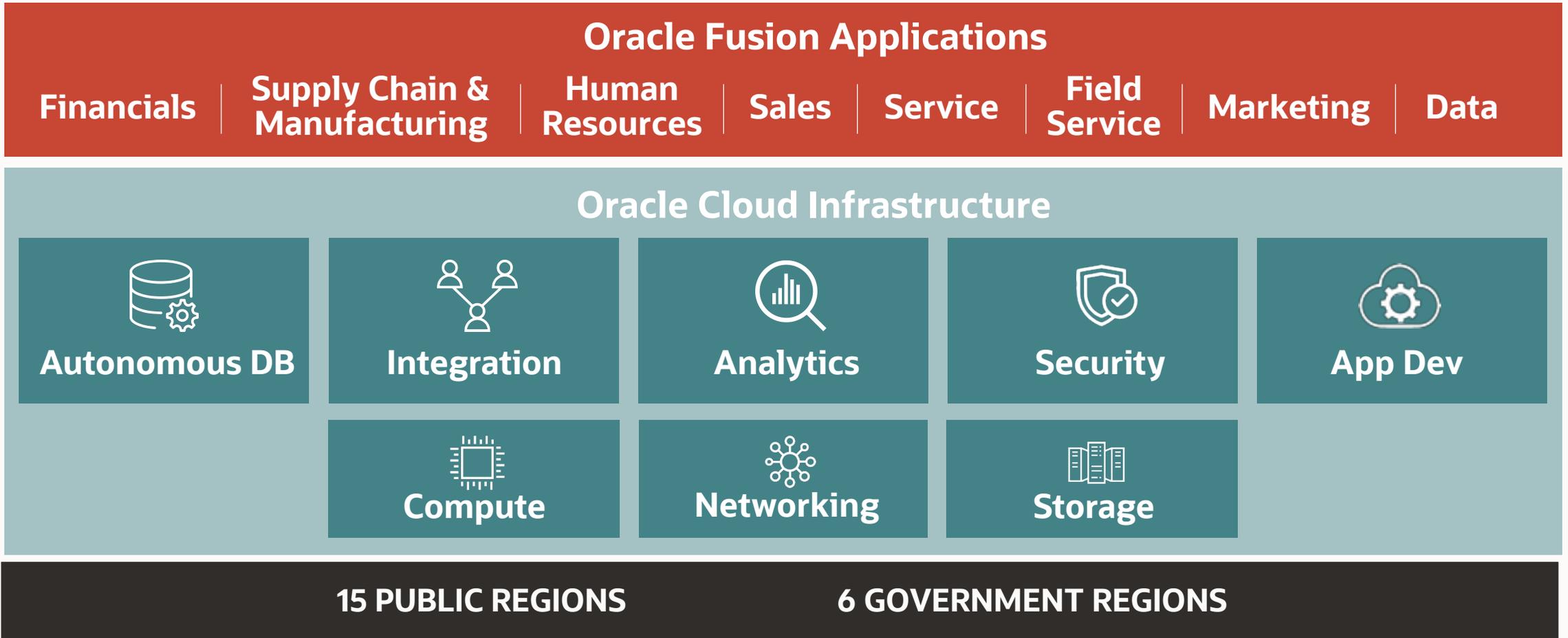
The Complete, No-Compromise choice of services

Partner Ecosystem: Altair | Couchbase NoEQUAL | FORTINET | Microsoft | paloalto NETWORKS | vmware

Next Layer Services

Low Code	Analytics	Integration	Hybrid Services	Migration/Hybrid
Digital Assistant	Oracle Analytics	Integration	Azure Interconnect	Identity (AD, SSO, LDAP)
Visual Builder	Data Science	Data Integration	Exadata Cloud@Customer	VMware Solution

Developer Services

AppDev	DevOps	Container Ecosystem	Serverless	Observability
CI/CD/Deployment	Dev Tools / Resource Mgr	Kubernetes / Registry / API	Functions / Events	Monitoring / Logging

Data Services

DBaaS/ExaCS	Autonomous Database	Other Data	Other Data Mgmt	Big Data
VM and Bare Metal	Dedicated and Serverless	NoSQL	Database Migration	Big Data / Data Flow
Exadata Cloud Service	ADW and ATP	Streaming / Kafka	Data Catalog	Data Integration

Core Services

Compute/OS	Storage	Networking	Security	Governance & Management
Bare Metal	Block	VCN	KMS / Virtual Vaults	Compartments & Tags
VMs / Dedicated VMs	Object	Cluster Networking	Policy / Data Safe	Audit
GPU shapes	Object Archive	Load Balancer	Identity / Secrets Mgmt	Email
High frequency CPUs	File	Service Gateway	CASB / Cloud Guard	Notifications
Autonomous Linux	Import Appliance	FastConnect w/IPSEC	WAF	Cost Management
OS Management	Storage Gateway	DNS	DDoS	

Regions

Phoenix	Ashburn	Toronto	UK/Gov (4)	Frankfurt	Israel	Dubai	Jeddah	Tokyo	Seoul	Mumbai	Sydney	Sao Paolo	Chile
Bay Area	US Gov (5)	Montreal	Amsterdam	Zurich	S. Africa	UAE 2	Saudi 2	Osaka	Chuncheon	Hyderabad	Melbourne	Singapore	Vinhedo

Compute

Wide range of compute services for any enterprise use case

Bare Metal	VMs	Containers	Functions
Instance isolation Highest IOPS High throughput Low latency	Security- hardened hypervisor Flexible sizing Dense IO and Dedicated host option	Bare metal performance Self-healing clusters	Pay per use Serverless Container-native Open source

AMD EPYC	Intel Xeon	NVIDIA GPUs

Local Attached Storage	Remote Attached Storage
NVMe SSDs Up to 51.2 TB Millions of IOPS	NVMe Block Volumes 32 TB / volume 75 IOPS / GB

Governance & Management

Architected from the ground up for maximum isolation and protection

Access Control	Resource Governance	Cost Management
Integrated IAM for all services Simple role-based policies Identity federation Resource principals	Flexible compartment structure Built-in automation ensures tagging integrity	Cost analysis dashboard Budgets Resource quotas Detailed, extensible usage reports Cost tracking tags

Audit	Monitoring	Notifications
Rich history of all events Query API Bulk export Custom retention period	Fine-grained out-of-the-box metrics Robust, custom metrics Alarms	Fully managed pub-sub Built-in integrations for popular messaging protocols

The Complete, No-Compromise Cloud Built for Enterprise

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A comprehensive enterprise cloud strategy

Professional Services: Global System Integrators, Oracle Advanced Customer Support

ORACLE ENTERPRISE APPLICATIONS

ORACLE Applications   ORACLE E-Business Suite
ORACLE Siebel   ORACLE JD Edwards
ORACLE Hyperion   ORACLE PeopleSoft

PERFORMANCE INTENSIVE WORKLOADS

CUSTOMER & ISV APPS ON ORACLE DATABASE

ORACLE Database

CLOUD NATIVE APPLICATIONS

fn   kubernetes   Terraform

Oracle Cloud Applications

CX   HCM   SCM   EPM   ERP   Data

Mission-critical enterprise cloud applications

OPEN ECOSYSTEM

Third party applications, tools, and services

Oracle Cloud Infrastructure

Tools and services to migrate, build, extend, and deploy enterprise applications

COMPUTE   CONTAINERS   STORAGE   DATABASE   AUTONOMOUS DATABASE   SECURITY   INTEGRATION

Oracle Cloud Regions

Oracle's commitment to open source

Leadership role in open source communities

THE LINUX FOUNDATION

Linux

CLOUD NATIVE COMPUTING FOUNDATION

kubernetes

OPENAPI INITIATIVE

ECLIPSE FOUNDATION

HYPERLEDGER

MySQL

Bringing open source software to OCI platform

Terraform

ANSIBLE

CHEF

docker

kubernetes

Contributing back to open source software

fn

GraalVM

GraphPipe

OpenJDK

smith crashcart railcar

Our Take on Cloud Native

Clouds Should Embrace Openness and Enable Portability

Technology	Oracle Cloud	Oracle elsewhere
Language	Java	
OS	Autonomous Linux + OSMS	Autonomous Linux
Containers	Docker / Kubernetes	
Serverless	Fn-based Functions	Fn
Database	Oracle Database / MySQL	
Orchestration	Terraform	
Events	CNCF Events	
Streaming	Kafka-compatible	Kafka
Gateway	API Gateway	
APM	Monitors cloud and on-prem	
Identity	SAML Federation, OAuth, OpenID	
Multi-cloud	Azure Interconnect (&+)	

Build Cloud Native Apps on Oracle Cloud

**Wide choice of big data deployment and services
on the best price/performance cloud**

Roll Your Own

Oracle Validated

Pre-built
Kubernetes
Installer

**Quickstart Experience
(OSS Terraform
Installer on GitHub)**

Oracle Native Solutions

Oracle Container
Engine for Kubernetes

**Best-in-Class Compute, Storage and Networking, Lowest Cost, Predictable Performance
Open standards-based platform; Weblogic on Kubernetes**

**Enterprise grade
infrastructure**

Right-size cloud-native
infrastructure

30% faster operations
on bare metal

No charge for Kubernetes
management

Native Terraform +
Ansible support

Comprehensive Data Platform Services

Analyze

Oracle Analytics

Data Science

Oracle SQL

Metadata

Data Catalog

Process and Manage

Streaming

Database Migration

Data Integration

Big Data Service

Data Flow

Autonomous Database

Exadata

VM/BM Database

MySQL

Data Store

OCI – Block Storage, File Storage, Object Storage
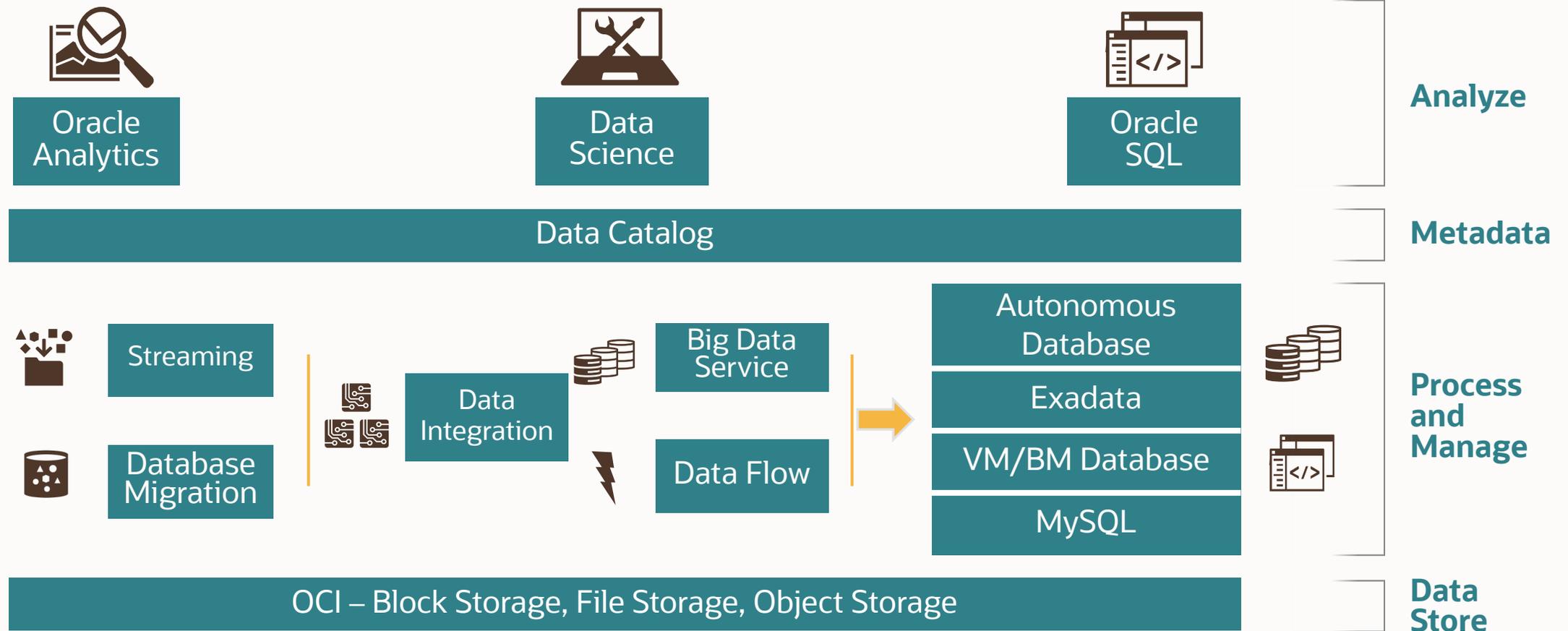
Oracle Cloud Ecosystem
Certified Oracle and partner solutions ready to deploy at a click

Oracle	OS, Virtualization	Apps, Migration	Networks, Security	Data	Analytics, AI/ML, HPC
ORACLE	ORACLE Linux	blueprism	A10	Couchbase NoEQUAL	Altair
E-Business Suite	Microsoft	Rackware MM	AVI Now part of VMware Networks*	Microsoft SQL Server	compellon™
GoldenGate	stromasys legacy server emulation	Solution-Soft	aviatrix	ORACLE Database	H₂O.ai
JD Edwards	SUSE	ZERO DOWN SOFTWARE	CIS Center for Internet Security*	SCYLLA.	kinetica
PeopleSoft	ubuntu		FORTINET	sesame SOFTWARE	PYRAMID ANALYTICS
Siebel	vmware		paloalto NETWORKS		
WebLogic			SHIELDIO		

Spend Universal Credits on partner solutions in our marketplace

Built with Automation and Artificial Intelligence in mind

Autonomous Linux
Maximum security Zone
Cloud Guard
Data Safe
OS Management
Functions
Events
Logging
WAF
Alarms
Autoscaling
HealthCheck
Monitoring
Resource Manager
Autonomous Database

Two Free Trial Options

Always Free

Services you can use
for an unlimited time

\+

Free Trial

Free credits for 30 days

Learn, Explore, and Build for Free

Always Free – What's Included

Autonomous Database	Compute	Storage	Networking/ Load Balancing	Monitoring / Notifications
2 x Databases 20 GB each	2 x VMs 1 GB Memory each	100 GB Block 10 GB Object 10 GB Archive	10 Mbps LB 10 TB Outbound Data Transfer	500M Metrics Ingestion 1B Metrics Retrieval 1M Http Notifications 1K Email Notifications

Available to All New and Existing Cloud Accounts

Universal Credits: flexible consumption
Unlimited access to all Oracle Cloud services

Consumption Choices

Pay As You Go (PAYG)

- No upfront commitment
- Pay only for what you use
- Pay in arrears based on usage

- List price
- Best when usage is uncertain
- Elastic payments based on usage

Monthly Flex

- 1 year minimum term
- Agreed to monthly spend

- Observed 33%-60% savings vs PAYG
- Discounts based on size of deal and term of deal
- Lowest spending without sacrificing flexibility

- One simple contract, simplifies the buying experience

- Universal access to all current and future Oracle Cloud services

- Lower prices based on monthly dollar commitment

- Flexibility to upgrade, expand or move services across datacenters

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Regions

Governance

Services

Virtual Layer

Physical Layer

Datacenters Availability Domains
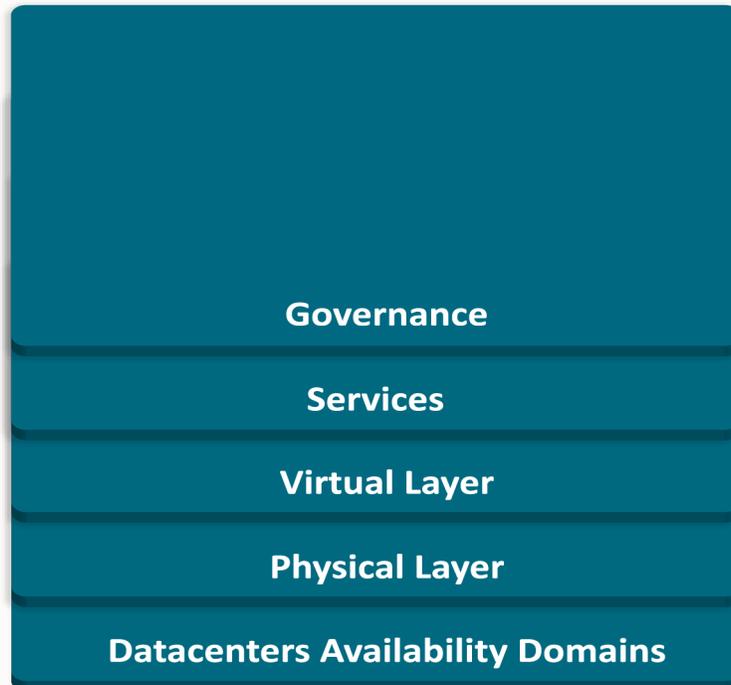
- Regions serve different geographies, and provide widely dispersed Disaster Recovery capabilities
- Oracle's Backbone Network and Peering capabilities provide for connectivity between regions
- Availability Domains provide a foundation for High Availability within a region, and contain multiple fault domains

Inside a Region – High Availability Building Blocks

Governance
Services
Virtual Layer
Physical Layer

AD1 — AD2 — AD3

Datacenters Availability Domains
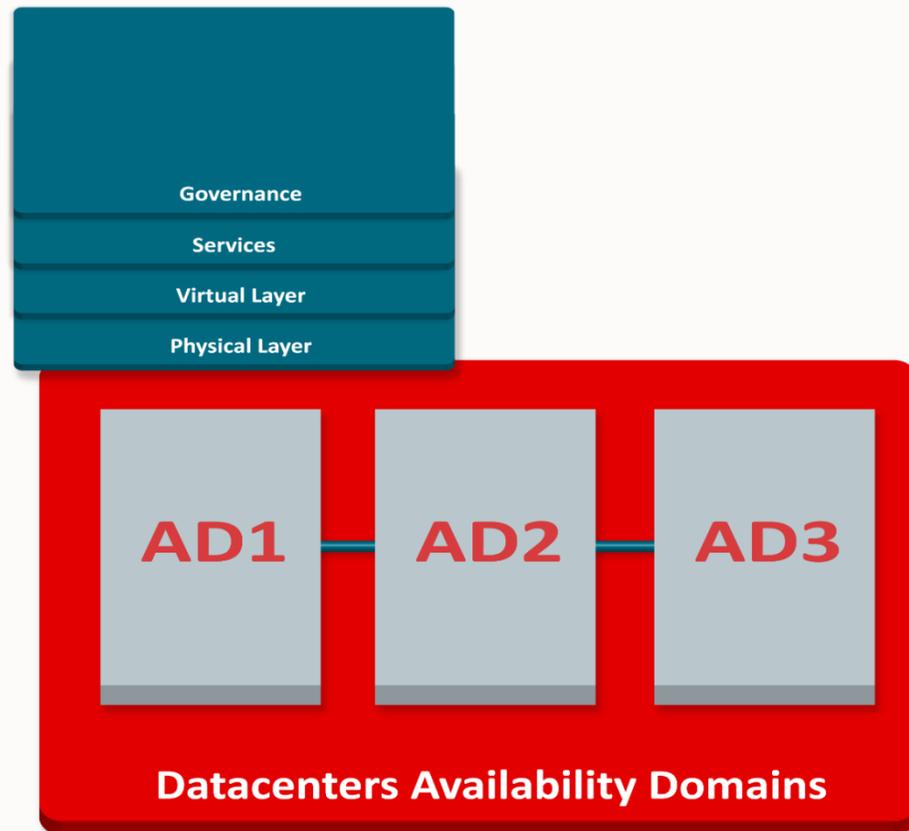
- Options for HA:
  - Multi-Region
  - Multi-Availability Domain
  - Multi Fault Domain

- High Availability for traditional and cloud-native applications

# Fast and predictable physical network infrastructure

Governance

Services

Virtual Layer

Physical Layer

Datacenters Availability Domains
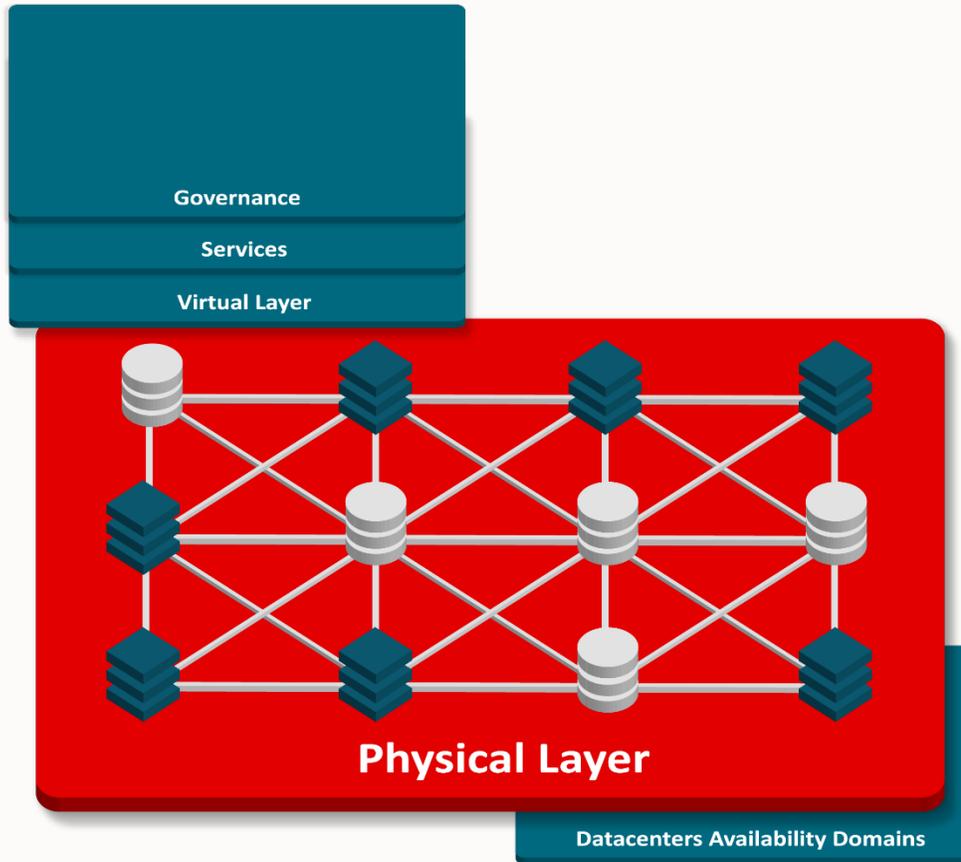
- Non-oversubscribed network
- Flat network speeds traffic by reducing the switches between any two hosts
- High speed interconnects: 2 x 25Gbps bandwidth
  - Predictable, low latency < 100µs expected one-way latency between hosts in an AD
  - <500µs between ADs
- The only cloud network performance SLA

Comprehensive Virtual Network with off-box IO Virtualization

Governance

Services

Virtual Layer

Physical Layer

Datacenters Availability Domains
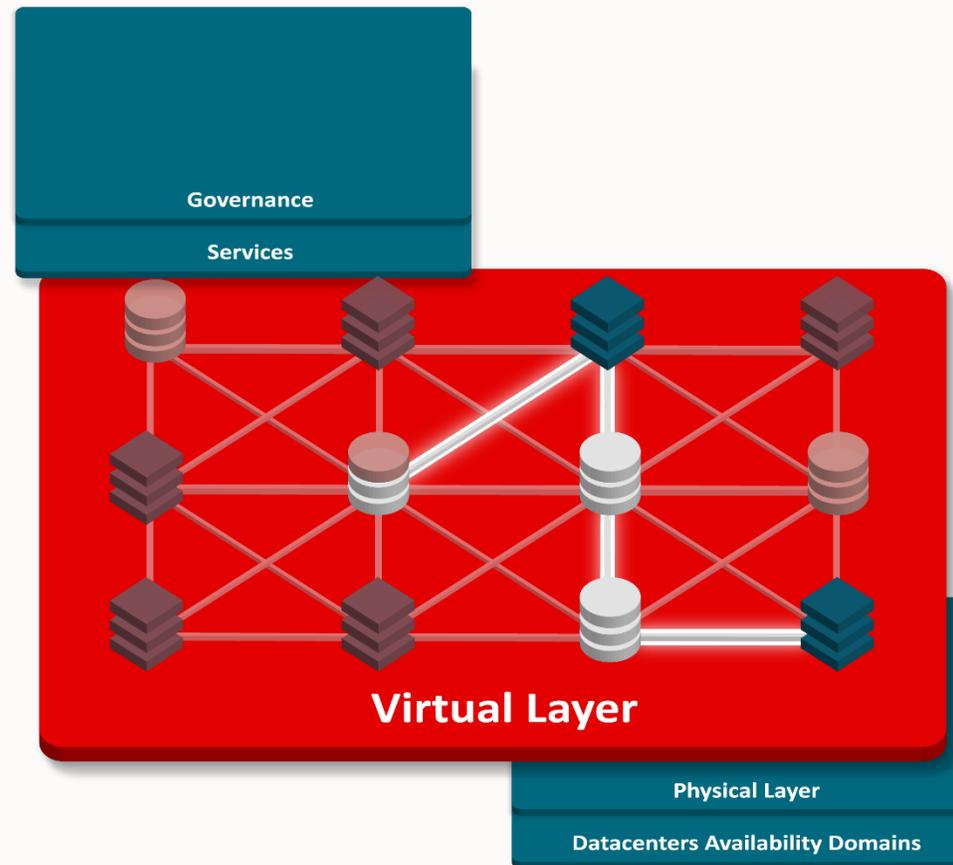
- Layer-3 virtual networks
- Bare metal available through the same portal and APIs as VMs
- Exadata and Real Application Clusters (RAC) options available for database performance and reliability

Services

Governance

Services

Virtual Layer

Physical Layer

Availability Domains
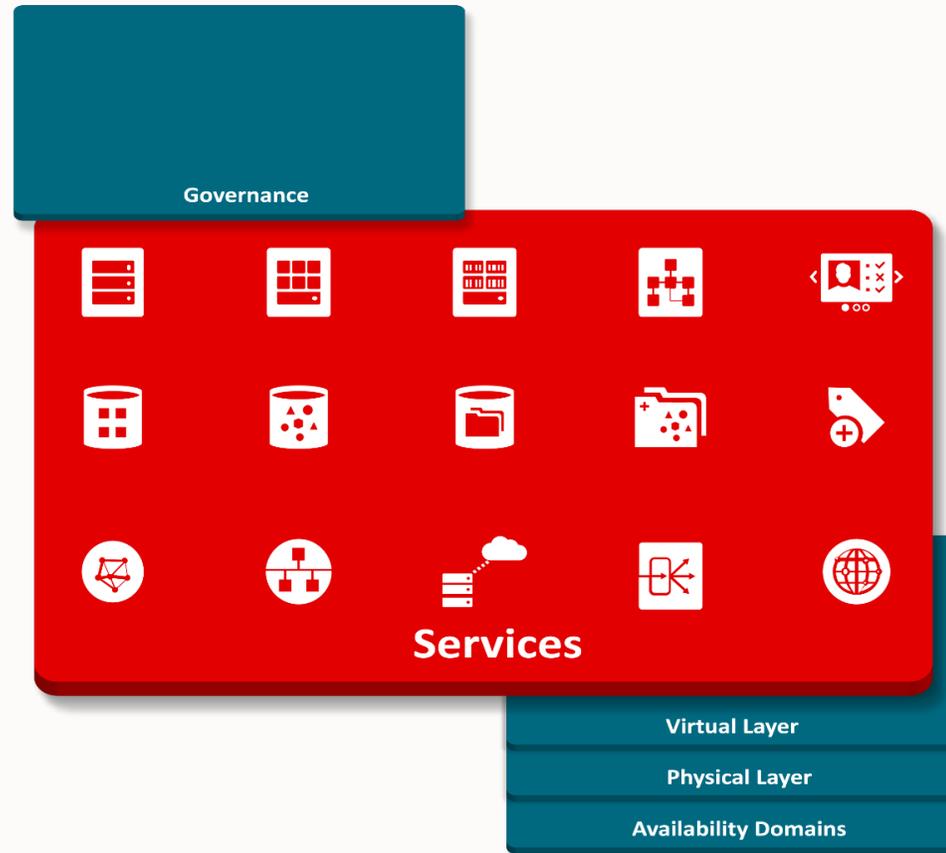
- Millions of read and write IOPS
- Best DB service for Oracle
- Only cloud performance & manageability SLA
- Broad compute options including bare metal, VM, GPU, containers
- Edge services, including industry-leading DNS
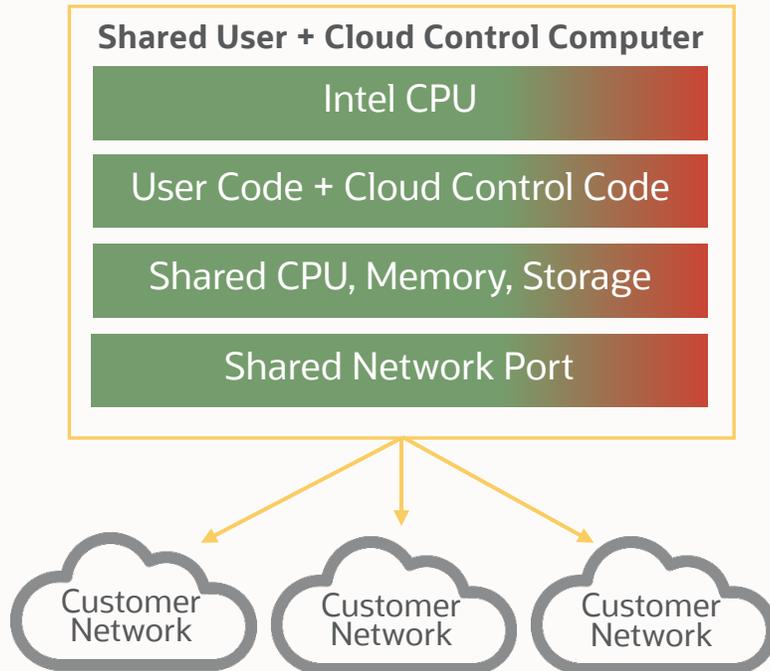
Governance
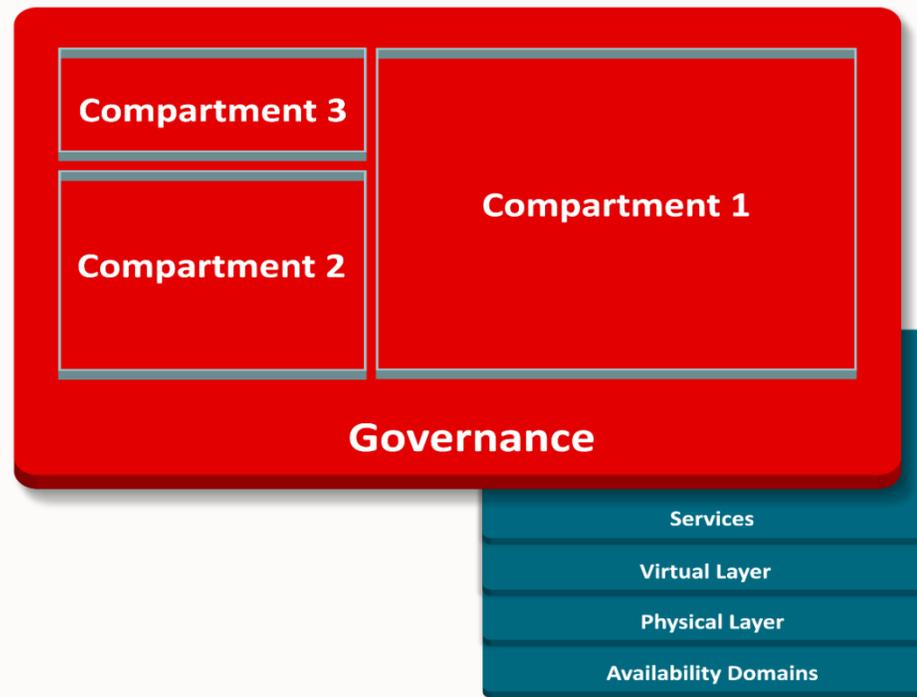
- Compartments
- Identity federation
- Tags – including structured tags
- Budgets and usage analysis
- Universal credits – consistent discounts across all IaaS & PaaS

End-to-end cloud infrastructure SLAs

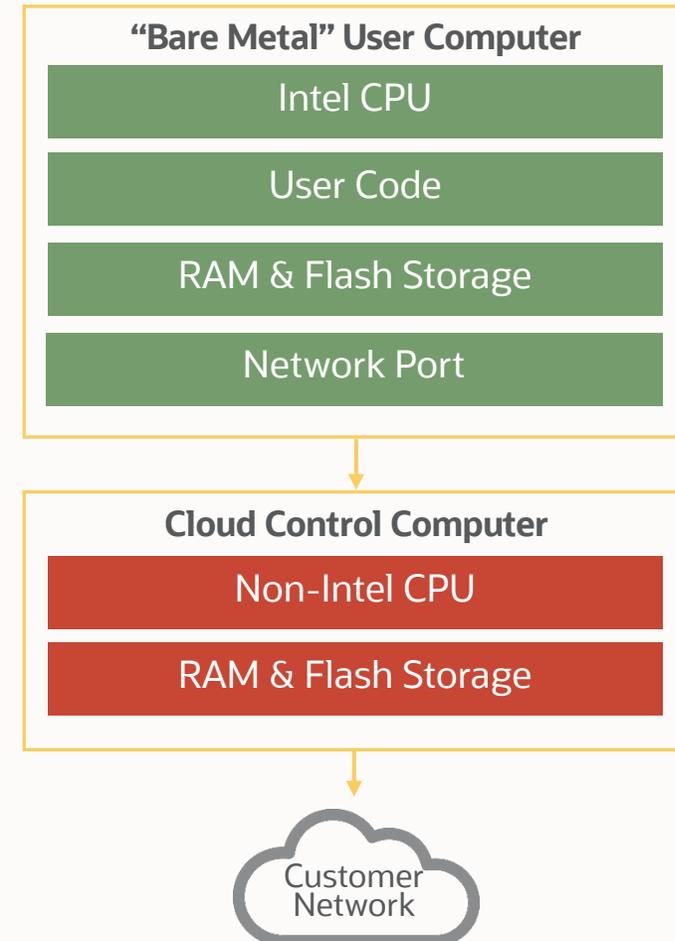|	Oracle	AWS	Azure	GCP
Availability	**Covered**	Covered	Covered	Covered
Performance	**Covered**	No coverage	No coverage	No coverage
Manageability	**Covered**	No coverage	No coverage	No coverage

Gen 1 Clouds
Shared Computers

- Cloud provider can see customer data
- User code can access cloud control code

Shared User + Cloud Control Computer

Intel CPU
User Code + Cloud Control Code
Shared CPU, Memory, Storage
Shared Network Port

Customer Network

Customer Network

Customer Network

Oracle Cloud Infrastructure
Separate Cloud Control Computers

✓ Oracle cannot see customer data
✓ No user access to cloud control computer

"Bare Metal" User Computer

Intel CPU
User Code
RAM & Flash Storage
Network Port

Cloud Control Computer

Non-Intel CPU
RAM & Flash Storage

Customer Network

OCI Compliance: Current Audit Programs

Global

SOC 1 : SOC 2 : SOC 3

27001 : 27017 : 27018

Self-Assessment

US Privacy Shield

Government

DoD DISA SRG IL2

DoD DISA SRG IL5

Moderate – Agency ATO

VPAT – Section 508

G-Cloud 11 - UK

Model Clauses - EU

Industry

HIPAA

PCI DSS

FISC - Japan

IG Toolkit - UK

FINMA - Switzerland

Regional

GDPR - EU

BSI C5 - Germany

TISAX - Germany

PIPEDA - Canada

Cyber Essentials Plus - UK

My Number - Japan

Cloud Security Principles - UK

ORACLE + vmware®

- ✓ An Oracle product combining Oracle Cloud Infrastructure and VMware software
- ✓ A VMware Cloud Foundation certified solution
- ✓ Sold by Oracle and Oracle partners
- ✓ Supported by Oracle and VMware
- ✓ Monthly pricing, with a 1 year Universal Credits commitment required
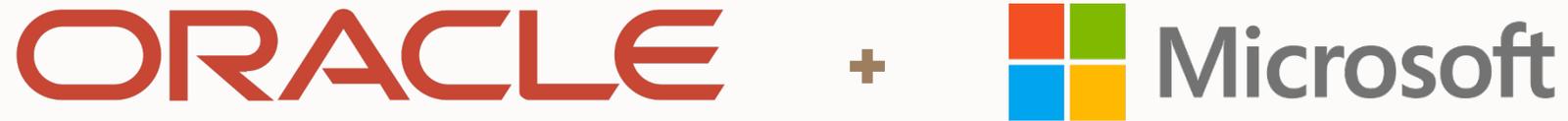
VMware Software

A certified VMware Cloud Foundation environment with vSphere, vSAN, and NSX.

Oracle Infrastructure

An initial 3-server configuration, which you can bring up fast and expand at will

Integration Options

Connect your VMware to Oracle cloud services in the same datacenter. From Oracle Autonomous, DBaaS, to Exadata and more.

ORACLE + Microsoft

Interconnected Multi-Cloud Solutions for Enterprise

- ✓ Microsoft Azure and Oracle Cloud are <u>interconnected today</u>, so you can migrate and run mission-critical enterprise workloads across clouds
- ✓ <u>Unified identity and access</u> management via single sign-on with automated user provisioning to easily manage resources across clouds
- ✓ <u>Collaborative support</u> of custom and Oracle Applications on Azure with Oracle Database on Oracle Cloud – connect best-in-class services across clouds

- **Available Now:** US East, London
- **Coming Soon:** US West, Government, Asia, and Europe regions

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Register now for next events!

Thank you

—

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Luis Nogueira| luis.nogueira@oracle.com