

ORACLE

Oracle Cloud Winter Camp

Sumérgete en la nube de 2ª Generación

4 Febrero 2020

Speakers

Borja Gómez

Business Development Manager Cloud Innovation, Oracle

Jesús Brasero

Principal Cloud Architect, Oracle



Safe harbor statement

A decorative graphic on the right side of the slide, featuring a stylized fingerprint pattern in a light gray color.

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.



Borja Gómez

Business Development Manager – Cloud Innovation

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Immersion in the 2nd Generation Cloud | Agenda

10:00 – 10:05	Welcome
10:05 – 10:40	Oracle Cloud Introduction
10:40 – 11:00	Oracle Cloud Architecture
11:00 – 11:30	Walkthrough console and demo and Q&A



Oracle Cloud in 8 Steps | Agenda

- 4th Feb **Immersion in the 2nd Generation Cloud**
Borja Gómez, Jesús Brasero
- 5th Feb **High-reliability architectures for mission-critical applications**
Alejandro de Fuenmayor, Raúl de Diego
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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 (<http://bit.ly/OCICafe>)



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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**

Cloud for your critical enterprise apps and data

First Generation Cloud

Elastic resources

Pay for what you use

High scale

Self-service

Easy to use



Oracle Cloud

Superior and predictable performance

Unbeatable price

Enterprise class

Security first

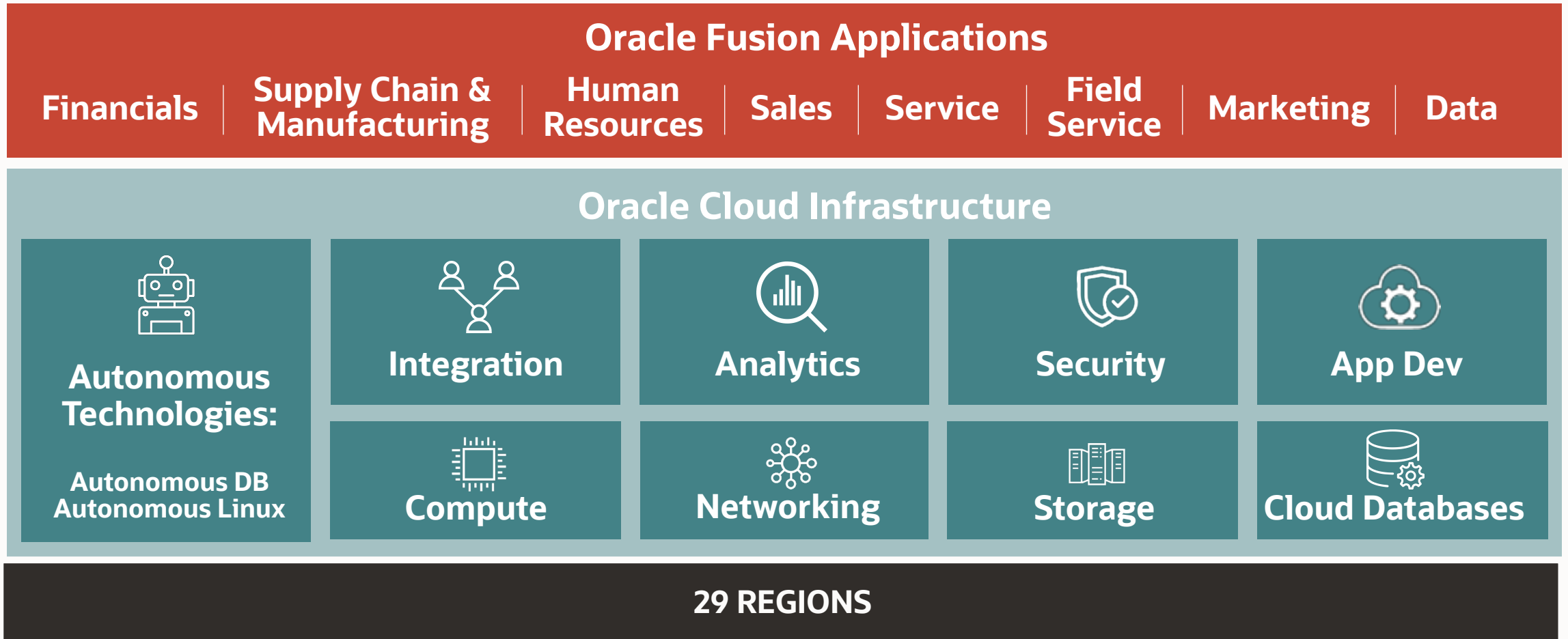
Open ecosystem

29 Oracle Cloud regions and growing







November 2020: 29 Regions Live, 9+ Planned; 6 Azure Interconnect Regions



Oracle Cloud – Complete Cloud Strategy



The Complete, No-Compromise choice of services

Partner Ecosystem	<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>													
Next Layer Services	Low Code			Analytics		Integration		Hybrid Services			Migration/Hybrid			
	<div>Digital Assistant</div> <div>Visual Builder</div>			<div>Oracle Analytics</div> <div>Data Science</div>		<div>Integration</div> <div>Data Integration</div>		<div>Azure Interconnect</div> <div>Exadata Cloud@Customer</div>			<div>Identity (AD, SSO, LDAP)</div> <div>VMware Solution</div>			
Developer Services	AppDev			DevOps		Container Ecosystem		Serverless			Observability			
	<div>CI/CD/Deployment</div>			<div>Dev Tools / Resource Mgr</div>		<div>Kubernetes / Registry / API</div>		<div>Functions / Events</div>			<div>Monitoring / Logging</div>			
Data Services	DBaaS/ExaCS			Autonomous Database		Other Data		Other Data Mgmt			Big Data			
	<div>VM and Bare Metal</div> <div>Exadata Cloud Service</div>			<div>Dedicated and Serverless</div> <div>ADW, ATP and AJD</div>		<div>NoSQL</div> <div>Streaming / Kafka</div>		<div>Database Migration</div> <div>Data Catalog</div>			<div>Big Data / Data Flow</div> <div>Data Integration</div>			
Core Services	Compute/OS			Storage		Networking		Security			Governance & Management			
	<div>Bare Metal</div> <div>VMs / Dedicated VMs</div> <div>GPU shapes</div> <div>High frequency CPUs</div> <div>Autonomous Linux</div> <div>OS Management</div>			<div>Block</div> <div>Object</div> <div>Object Archive</div> <div>File</div> <div>Import Appliance</div> <div>Storage Gateway</div>		<div>VCN</div> <div>Cluster Networking</div> <div>Load Balancer</div> <div>Service Gateway</div> <div>FastConnect w/IPSEC</div> <div>DNS</div>		<div>KMS / Virtual Vaults</div> <div>Policy / Data Safe</div> <div>Identity / Secrets Mgmt</div> <div>CASB / Cloud Guard</div> <div>WAF</div> <div>DDoS</div>			<div>Compartments & Tags</div> <div>Audit</div> <div>Email</div> <div>Notifications</div> <div>Cost Management</div>			
Regions														
	<div>Phoenix</div>	<div>Ashburn</div>	<div>Toronto</div>	<div>UK/Gov (4)</div>	<div>Frankfurt</div>	<div>Israel</div>	<div>Dubai</div>	<div>Jeddah</div>	<div>Tokyo</div>	<div>Seoul</div>	<div>Mumbai</div>	<div>Sydney</div>	<div>Sao Paolo</div>	<div>Chile</div>
	<div>Bay Area</div>	<div>US Gov (5)</div>	<div>Montreal</div>	<div>Amsterdam</div>	<div>Zurich</div>	<div>S. Africa</div>	<div>UAE 2</div>	<div>Saudi 2</div>	<div>Osaka</div>	<div>Chuncheon</div>	<div>Hyderabad</div>	<div>Melbourne</div>	<div>Singapore</div>	<div>Vinhedo</div>

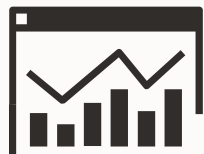




Compute

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 options	Bare metal performance Self-healing clusters	Pay only for usage 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 up to 1PB 32 TB / volume 75 IOPS / GB	



Governance & Management

Architected from
the ground up for
maximum isolation
and protection

Access Control	Resource Governance	Cost Management
<ul style="list-style-type: none">Integrated IAM for all servicesSimple role-based policiesIdentity federationResource principals	<ul style="list-style-type: none">Flexible compartment structureBuilt-in automation ensures tagging integrity	<ul style="list-style-type: none">Cost analysis dashboardBudgetsResource quotasDetailed, extensible usage reportsCost tracking tags
Audit	Monitoring	Notifications
<ul style="list-style-type: none">Rich history of all eventsQuery APIBulk exportCustom retention period	<ul style="list-style-type: none">Fine-grained out-of-the-box metricsRobust, custom metricsAlarms	<ul style="list-style-type: none">Fully managed pub-subBuilt-in integrations for popular messaging protocols

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 Hyperion
ORACLE JD Edwards
ORACLE PeopleSoft

PERFORMANCE INTENSIVE WORKLOADS



CUSTOMER & ISV APPS ON ORACLE DATABASE



ORACLE Database

CLOUD NATIVE APPLICATIONS



Oracle Cloud Applications



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



Oracle Cloud Regions

Oracle's commitment to open source

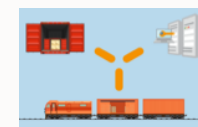
Leadership role in open source communities



Bringing open source software to OCI platform



Contributing back to open source software



smith



crashcart



railcar

Our Take on Cloud Native

Clouds Should
Embrace Openness and
Enable Portability

Technology

Language

OS

Containers

Serverless

Database

Orchestration

Events

Streaming

Gateway

APM

Identity

Multi-cloud

Oracle Cloud

Autonomous Linux +
OSMS

Fn-based Functions

Kafka-compatible

Monitors cloud and on-prem
SAML Federation, OAuth, OpenID
Azure Interconnect (&+)

Oracle elsewhere

Java

Autonomous Linux

Docker / Kubernetes

Fn

Oracle Database / MySQL

Terraform

CNCF Events

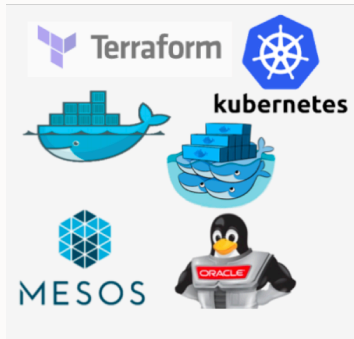
Kafka

API Gateway

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



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

Oracle Native Solutions



**Oracle Container
Engine for Kubernetes
(OKE)**

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 (only worker
nodes)

Native Terraform +
Ansible support

How to start for free?



Always Free

Services you can use
for an unlimited time

+

Free Trial

400 €
free credits for 30 days

Learn, Explore, and Build for Free

Always Free – What's Included



Autonomous Database

*2 x Autonomous Databases
20 GB each*



Compute

*2 x VMs
1 GB Memory each*



Storage

*100 GB Block
10 GB Object
10 GB Archive*



Networking/ Load Balancing

*10 Mbps LB
10 TB Outbound
Data Transfer*

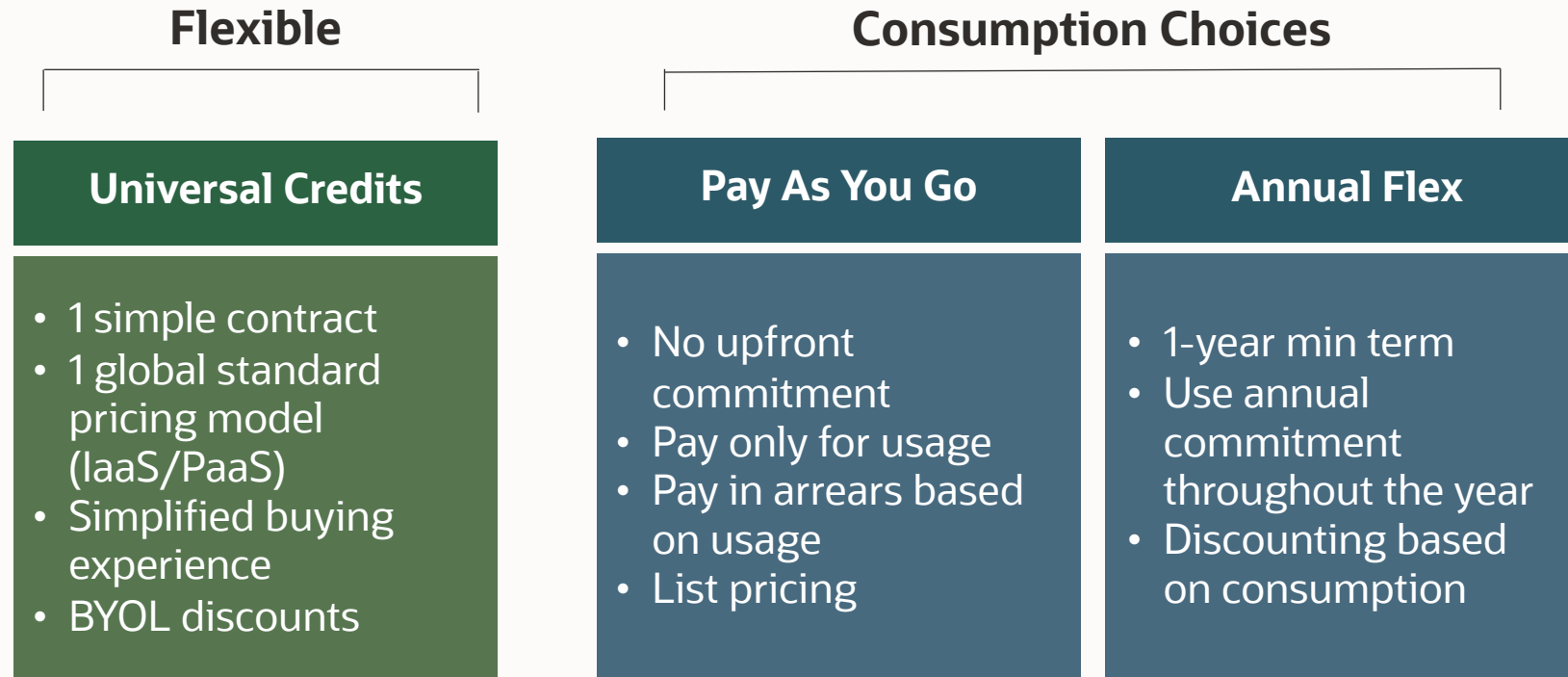


Monitoring / Notifications

*500M Metrics Ingestion
1B Metrics Retrieval
1M Http Notifications
1K Email Notifications*

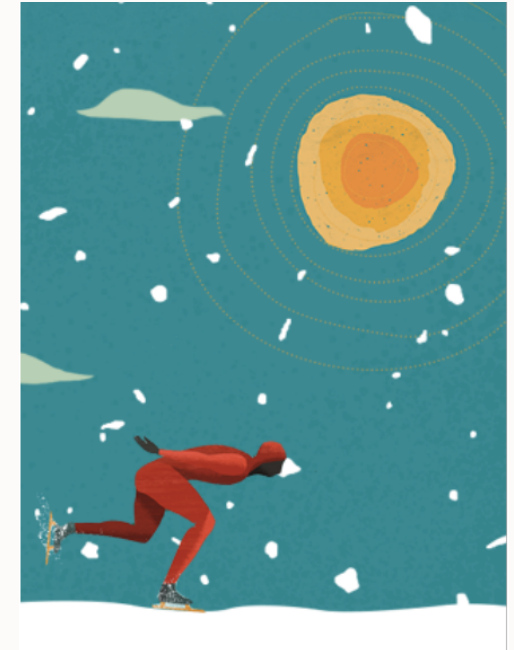
Available to All New and Existing Cloud Accounts

Flexible Pricing & Consumption Models



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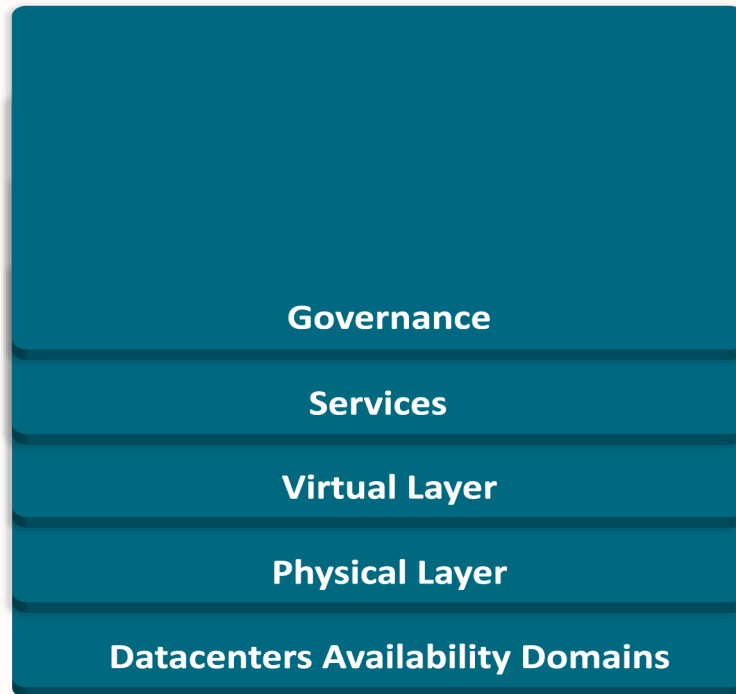
Jesús Braseró

Principal Cloud Architect

Oracle

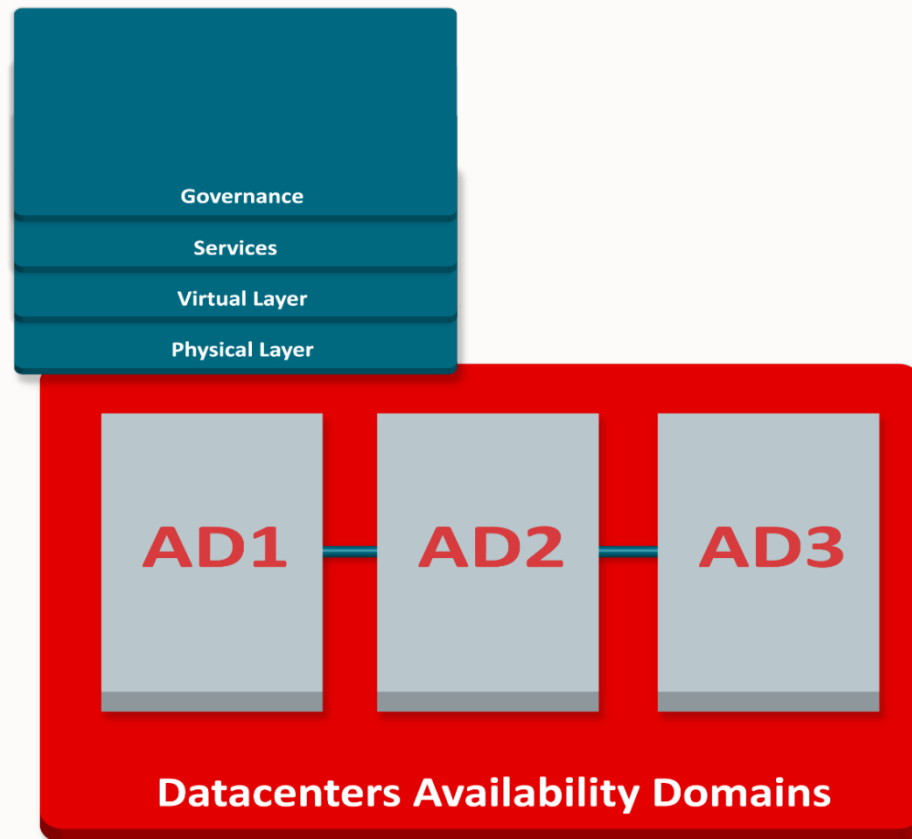
 <https://www.linkedin.com/in/jesusbraseró/>

Regions



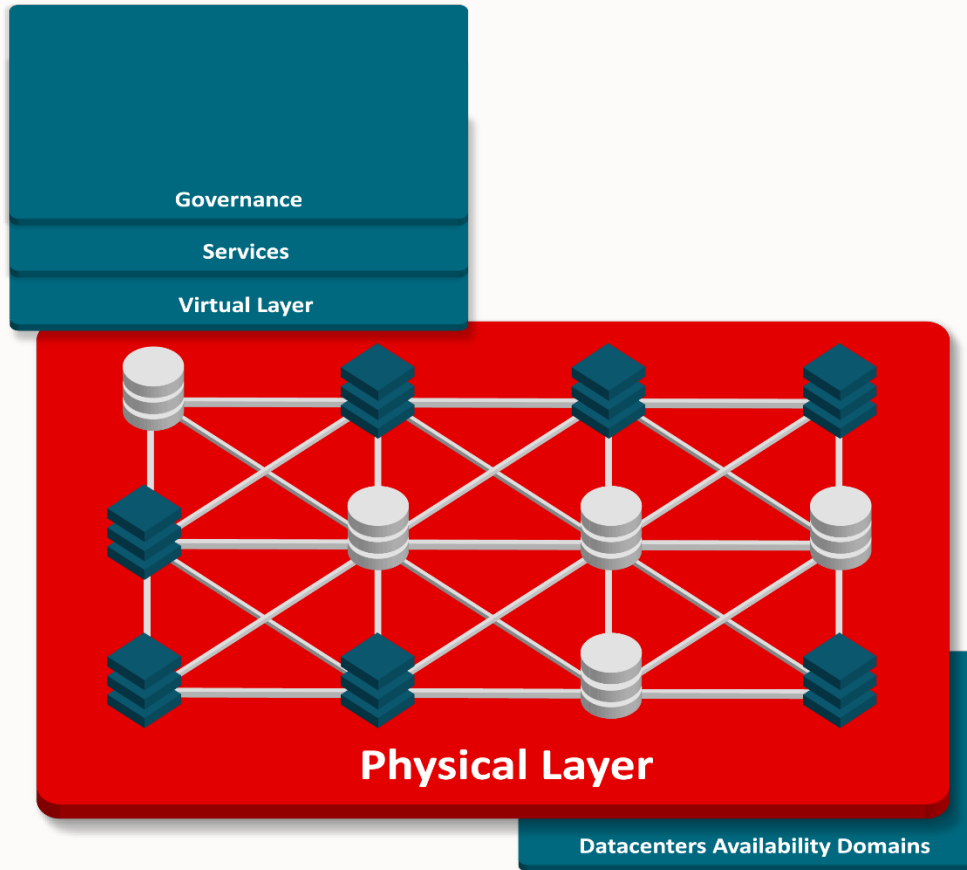
- Regions serve different geographies, and provide widely dispersed Disaster Recovery capabilities
- Oracle's Backbone Network and Peering capabilities provide for connectivity between regions
- Availability Domains provide a foundation for High Availability within a region, and contain multiple fault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

Inside a Region – High Availability Building Blocks



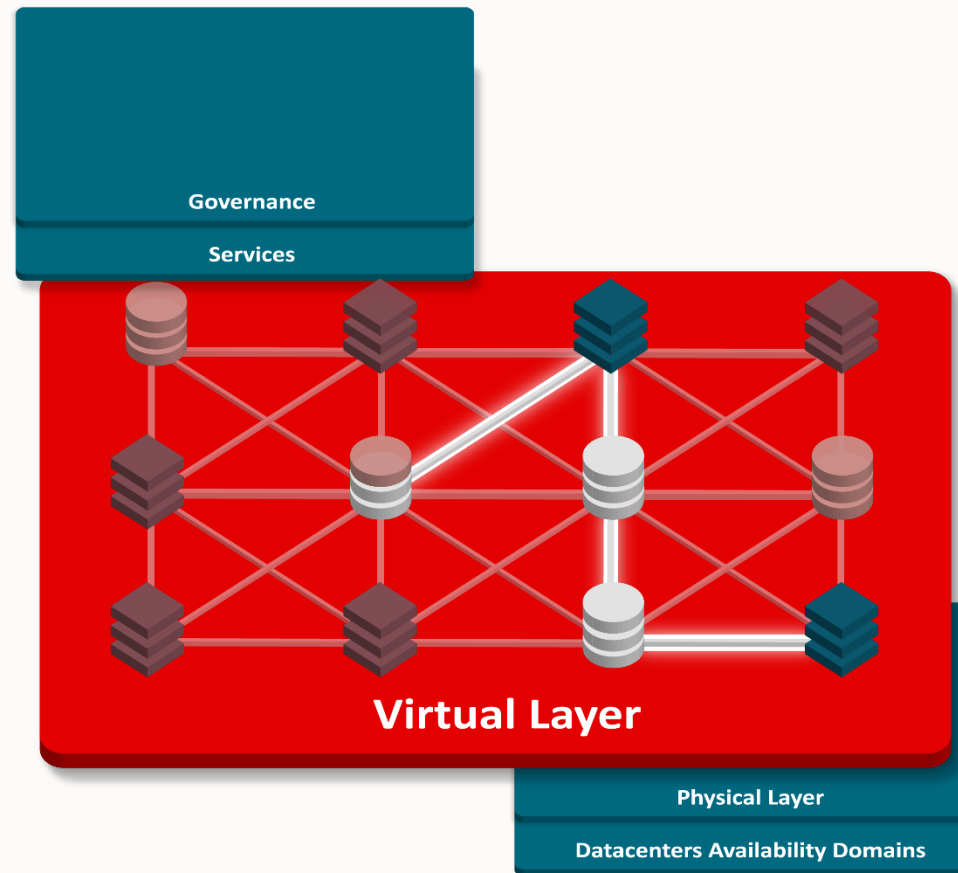
- Options for HA:
 - Multi-Region
 - Multi-Availability Domain
 - Multi Fault Domain
- High Availability for traditional and cloud-native applications

Fast and predictable physical network infrastructure



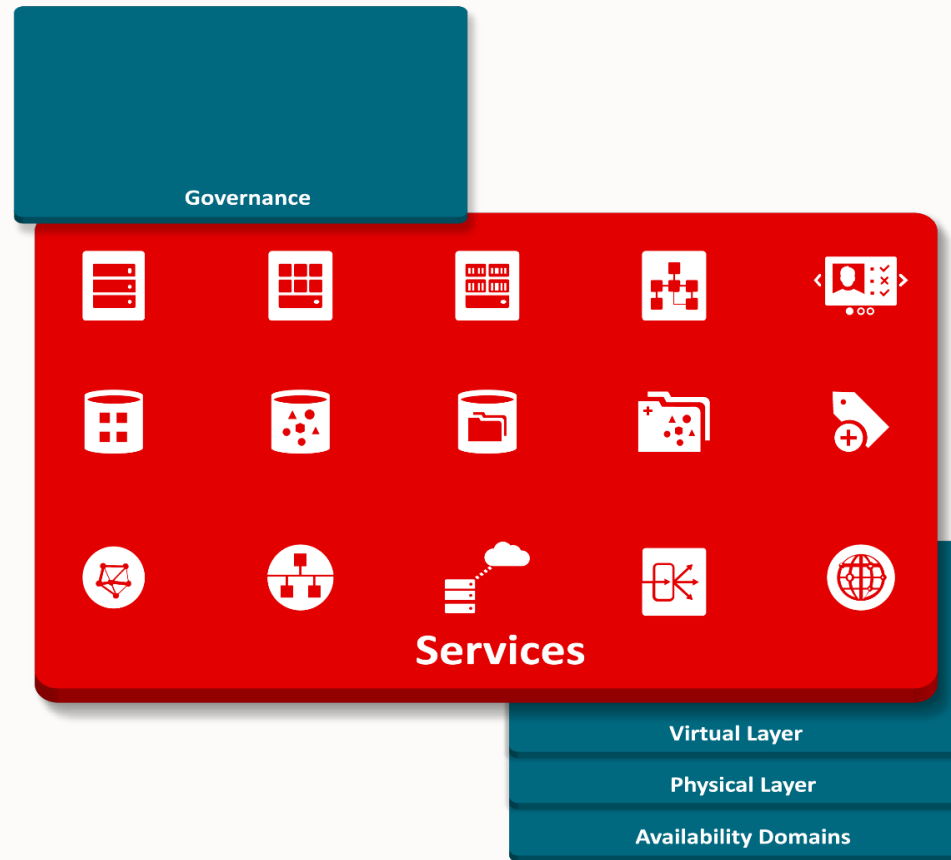
- Non-oversubscribed network
- Flat network speeds traffic by reducing the switches between any two hosts
- High speed interconnects: 2 x 25Gbps bandwidth
 - Predictable, low latency < 100μs expected one-way latency between hosts in an AD
 - <500μs between ADs
- The only cloud network performance SLA

Comprehensive Virtual Network with off-box IO Virtualization



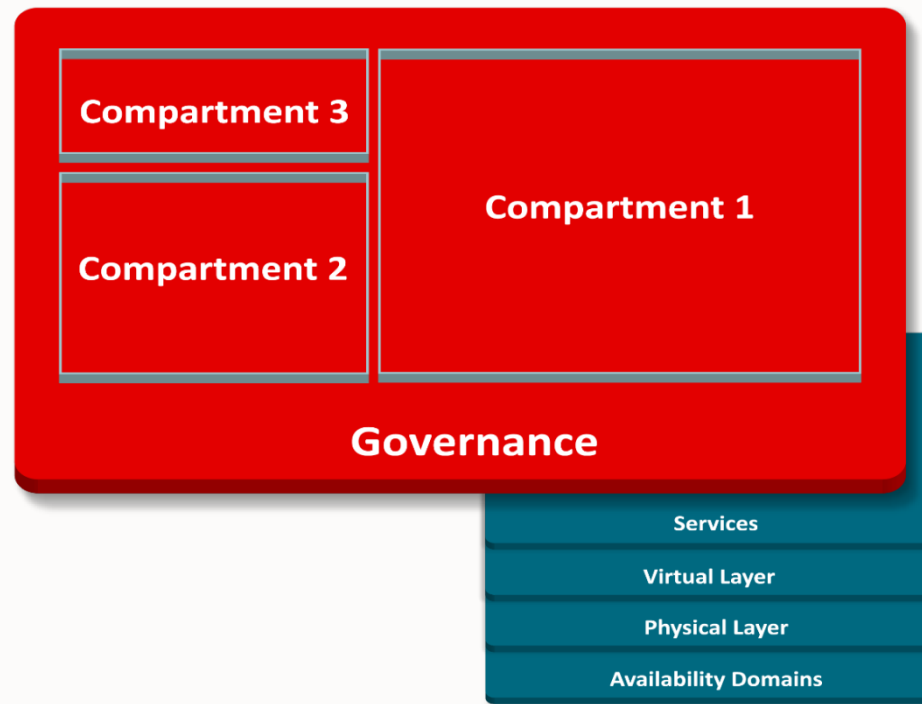
- Layer-3 virtual networks
- Bare metal available through the same portal and APIs as VMs
- Exadata and Real Application Clusters (RAC) options available for database performance and reliability

Services



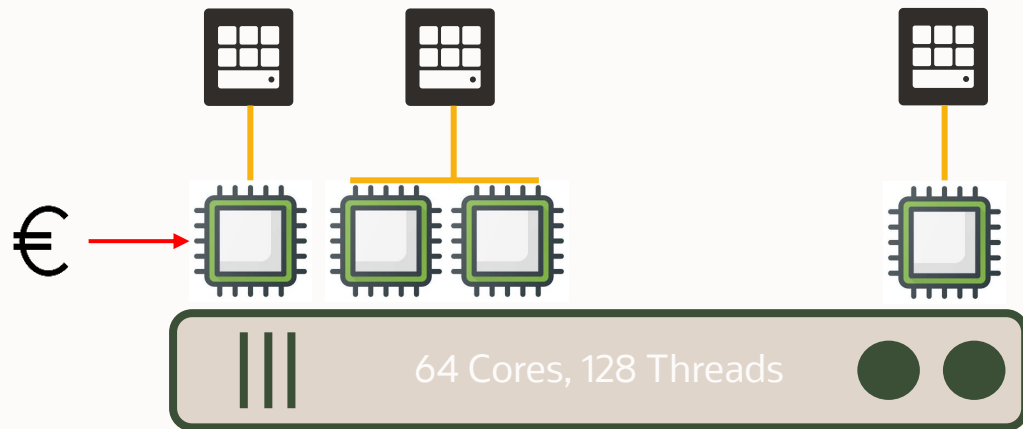
- Millions of read and write IOPS
- Best DB service for Oracle
- Only cloud performance & manageability SLA
- Broad compute options including bare metal, VM, GPU, containers
- Edge services, including industry-leading DNS
- 58 services

Governance



- Compartments
- Identity federation
- Tags – including structured tags
- Budgets and usage analysis
- Universal credits

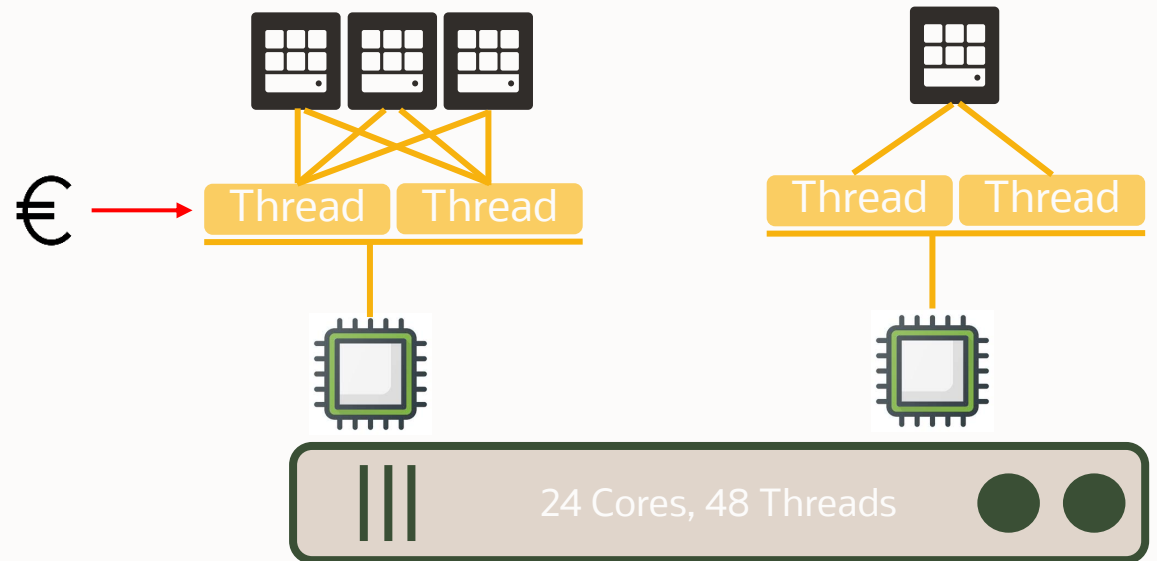
Oracle oCPU



oCPU = 2 Threads
No sharing of compute resources!



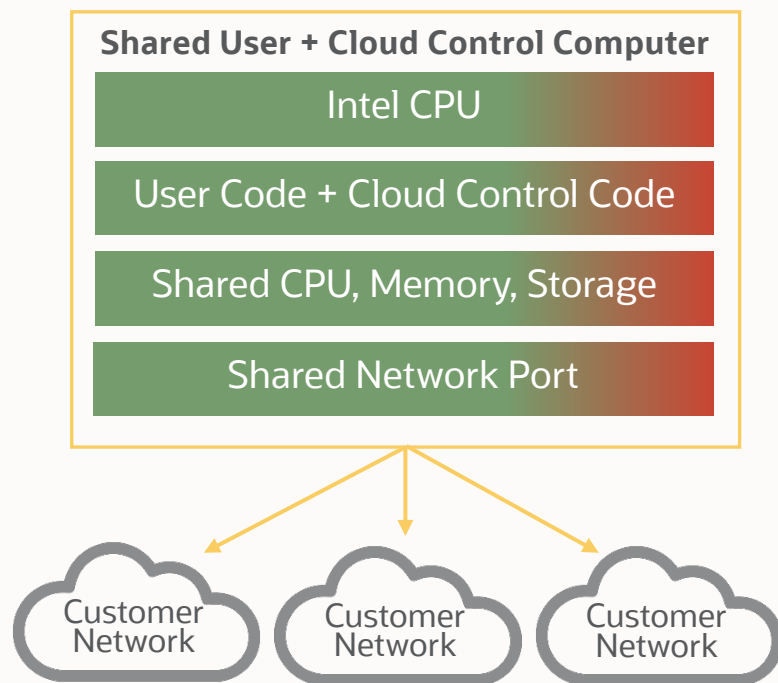
Other Clouds



vCPU = Thread
Each Thread is shared by VMs

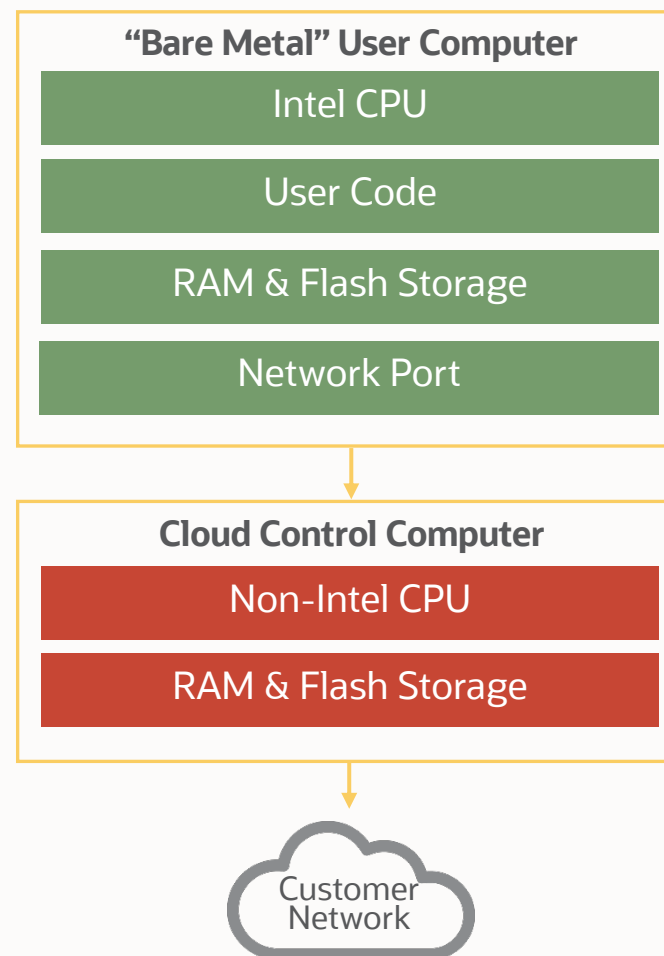
Gen 1 Clouds Shared Computers

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



Oracle Cloud Infrastructure Separate Cloud Control Computers

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



End-to-end cloud infrastructure SLAs

	Oracle	AWS	Azure	GCP
Availability	✓	✓	✓	✓
Performance Disk IOPS & Network	✓	✗	✗	✗
Manageability API Error Rate	✓	✗	✗	✗

Global, regional, and industry compliance

Global	 SOC 1 : SOC 2 : SOC 3	 27001 : 27017 : 27018	 Level 1	 US Privacy Shield			
Government	 DoD DISA SRG IL2	 DoD DISA SRG IL5	 High – Agency ATO	 CJIS	 VPAT – Section 508	 HM Government G-Cloud 11 Supplier	 Model Clauses - EU
Industry	 HIPAA	 PCI DSS	 TISAX - Germany	 FISC - Japan	 IG Toolkit - UK	 FINMA - Switzerland	
Regional	 GDPR - EU	 BSI C5 - Germany	 ENS - Spain	 PIPEDA - Canada	 Cyber Essentials Plus - UK	 My Number - Japan	 Cloud Security Principles - UK



Partnerships

ORACLE

+



Interconnected Multi-Cloud Solutions for Enterprise

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

Available Now: San Jose, Toronto, Ashburn, London, Amsterdam, Tokyo
More Regions coming Soon

Partnerships

ORACLE

+

vmware®

1

Dedicated with Full Control

Self-service provisioning with full administrative control, including root access. Root access provides full control over your environment.

2

Keep the Same VMware Tools

Leverage your existing skillsets with tools you are already using on-premises; vSphere, vSAN, NSX, and Third-party ISV solutions.

3

Seamless Migration

Migrate applications “as-is” and avoid modifications by relying on a single VMware specification that works both on-premises and in the cloud.

4

Access to Oracle Cloud Services

Deploy VMware-based applications in the same cloud environment as Oracle’s broad portfolio of cloud services including Autonomous Database, DBaaS, and Exadata CS

5

Global Availability

Deploy into any of the Commercial OCI regions

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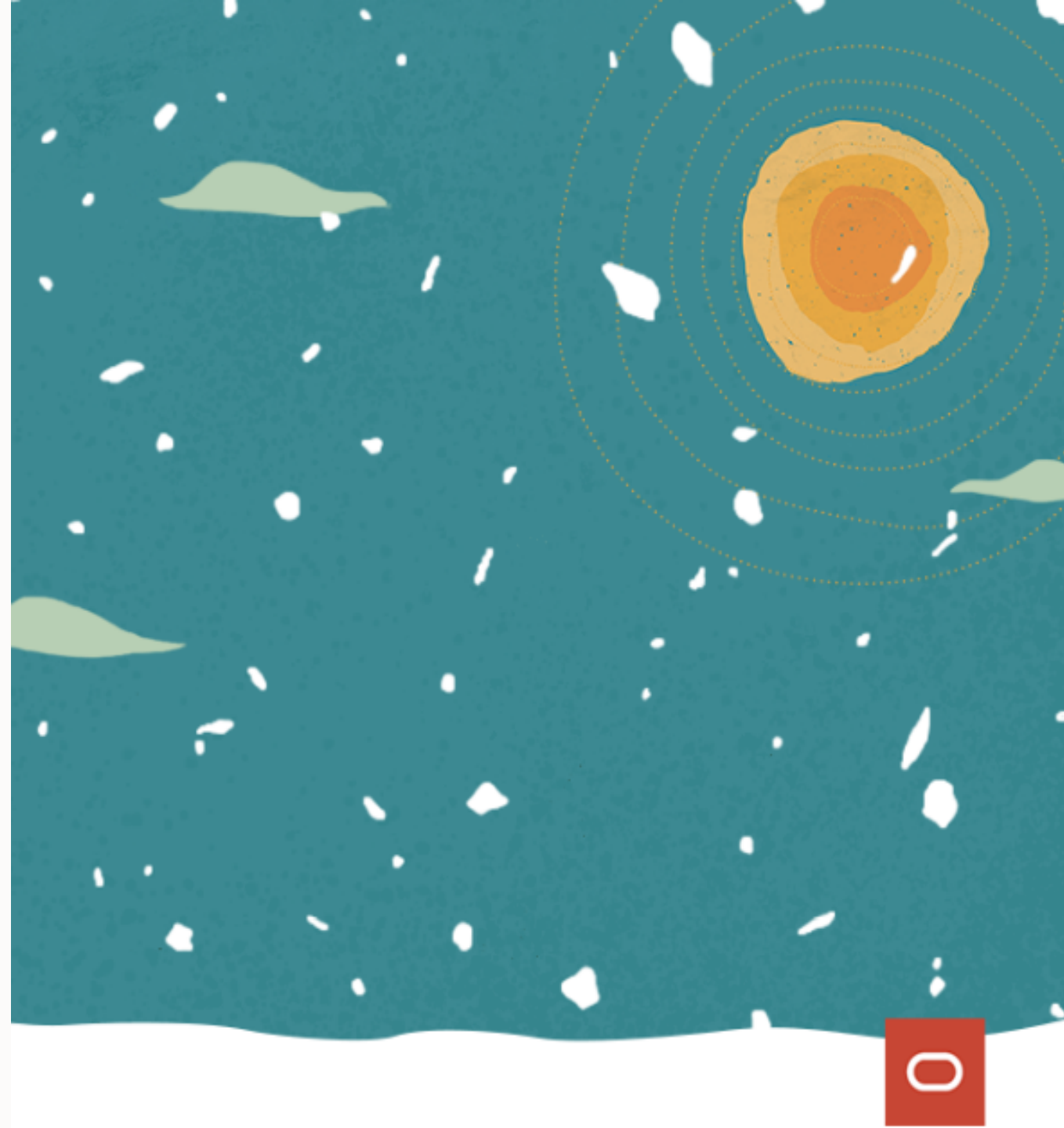


Register now for next events!

Thank you

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Jesús Brasero | jesus.brasero@oracle.com





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