



ORACLE

Getting started with Oracle Cloud Infrastructure

L100

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Oracle Cloud Infrastructure

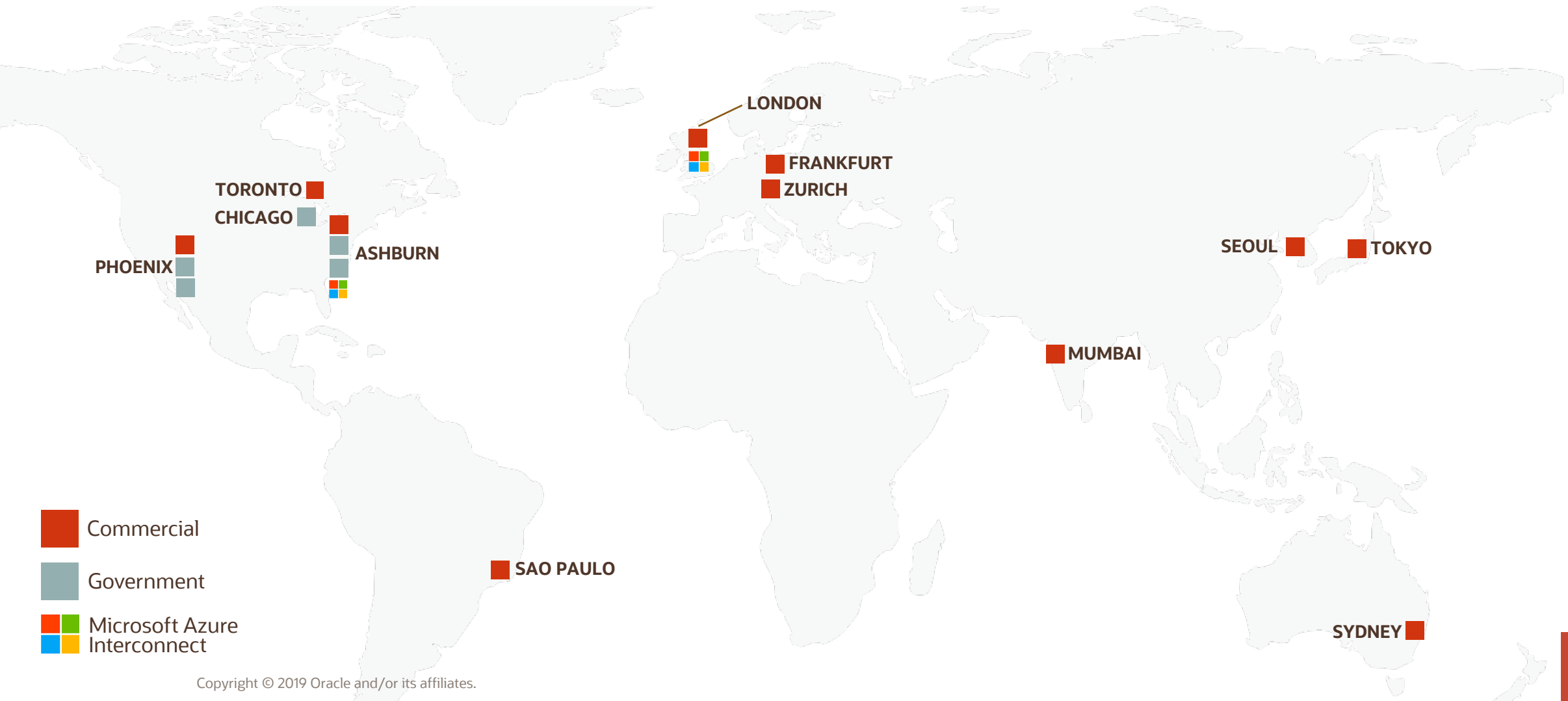
Nov 2019

Safe Harbor Statement

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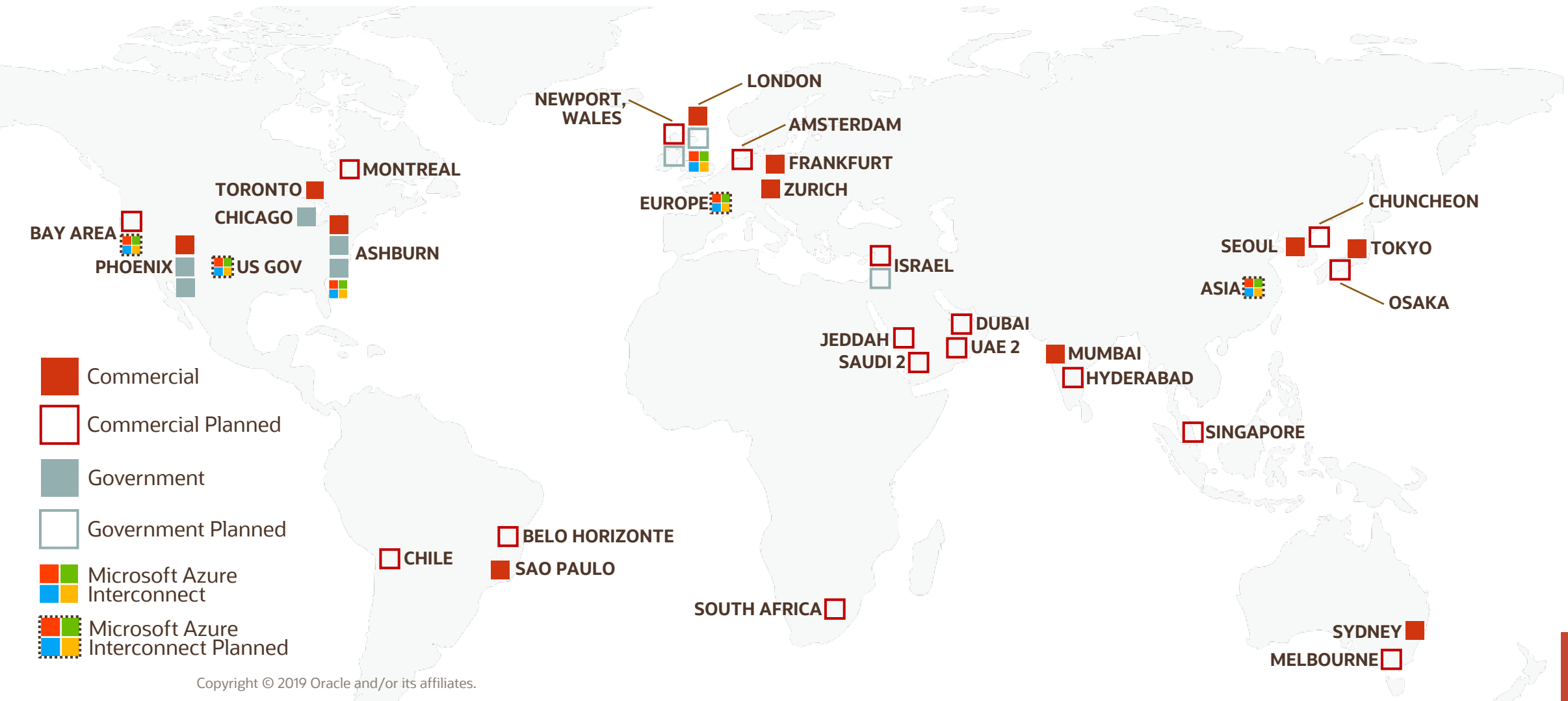
Oracle Cloud Infrastructure Global Footprint

October 2019: 16 Regions Live



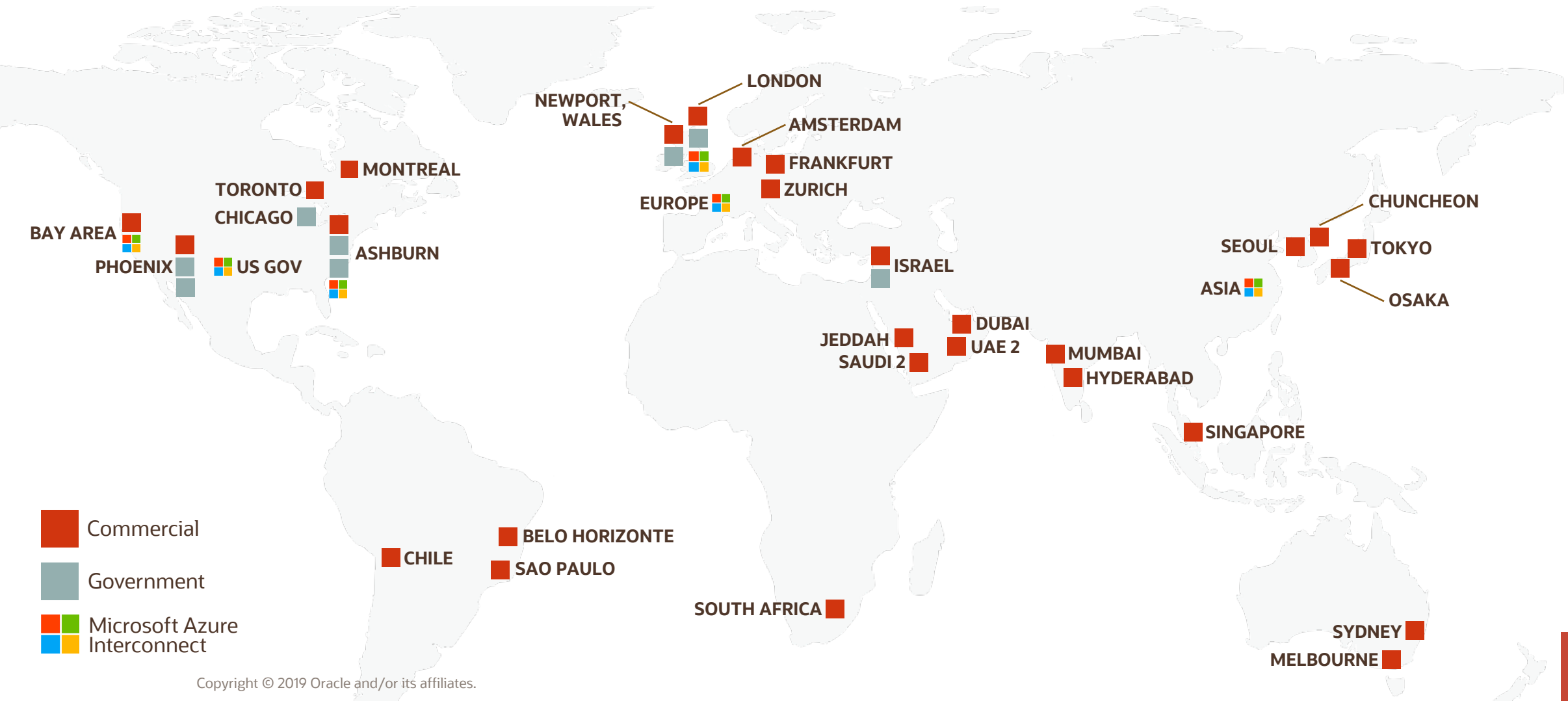
Oracle Cloud Infrastructure Global Footprint

October 2019: 16 Regions Live, 20 Planned



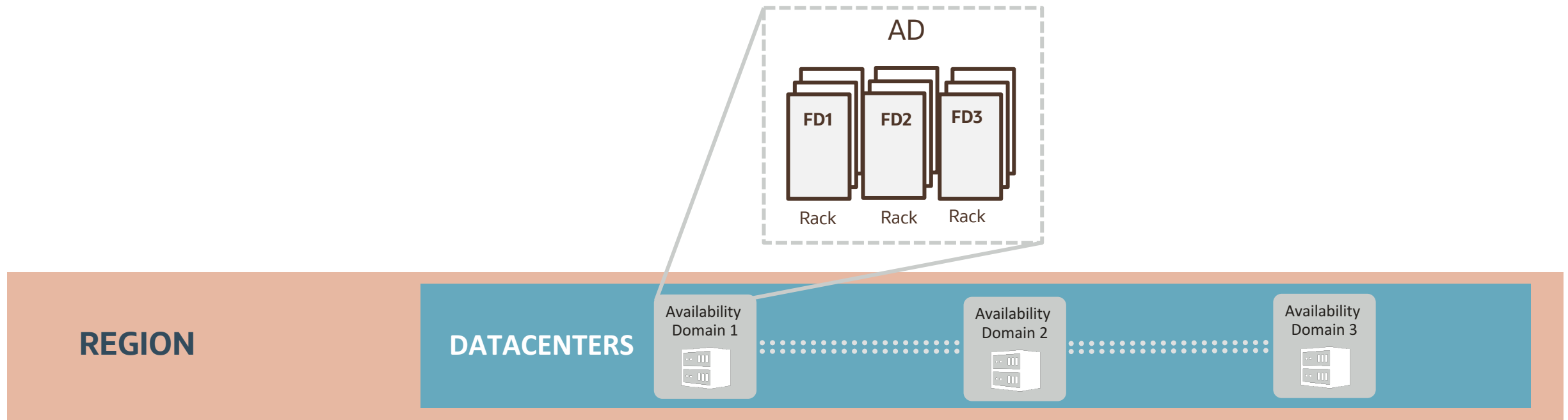
Oracle Cloud Infrastructure Global Footprint

End of CY2020: 36 Oracle Regions



OCI Region – HA Building Blocks

- Multiple fault de-correlated, completely independent datacenters: Availability Domain (AD)
- Grouping of hardware and infrastructure within an AD: Fault Domain
- Predictable low latency & high speed, encrypted interconnect between ADs



One AD Regions

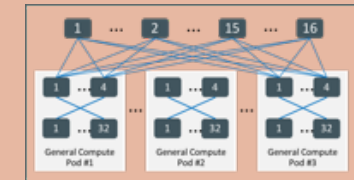
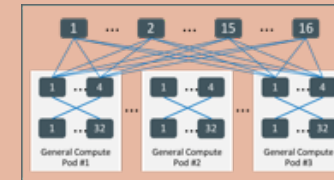
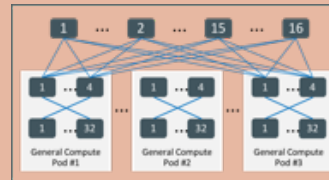
- OCI has chosen to launch regions in new geographies with one AD (to increase our global reach quickly)
- For any region with one AD, a second AD or region in the same country or geo-political area will be made available within a year to enable further options for DR and data residency

OCI Region (current)	# Availability Domains
US West (Phoenix)	3
US East (Ashburn)	3
UK South (London)	3
Germany Central (Frankfurt)	3
Australia East (Sydney)	1
Brazil East (Sao Paulo)	1
Canada Southeast (Toronto)	1
India West (Mumbai)	1
Japan East (Tokyo)	1
South Korea Central (Seoul)	1
Switzerland North (Zurich)	1

Inside an AD – High Scale, High Performance Network

- Non-oversubscribed network; no noisy-neighbors
- Very high scale – ~1 million network ports in an AD
- Predictable low latency & high speed interconnect between hosts in an AD

PHYSICAL NETWORK



REGION

DATACENTERS

Availability Domain 1



Availability Domain 2

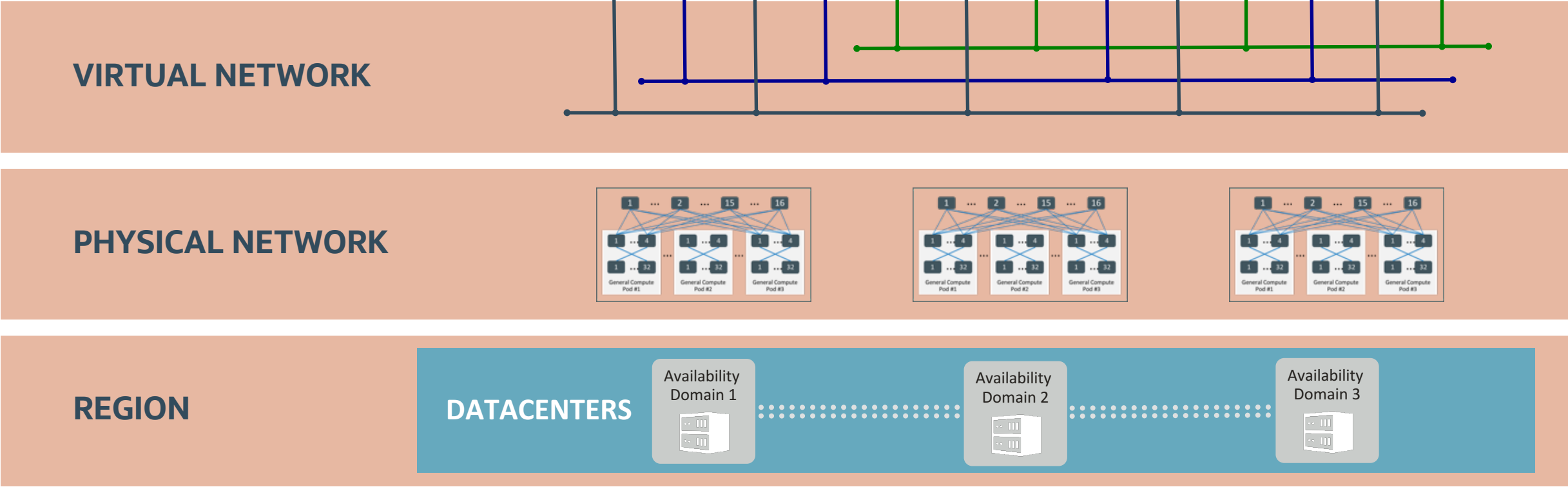


Availability Domain 3



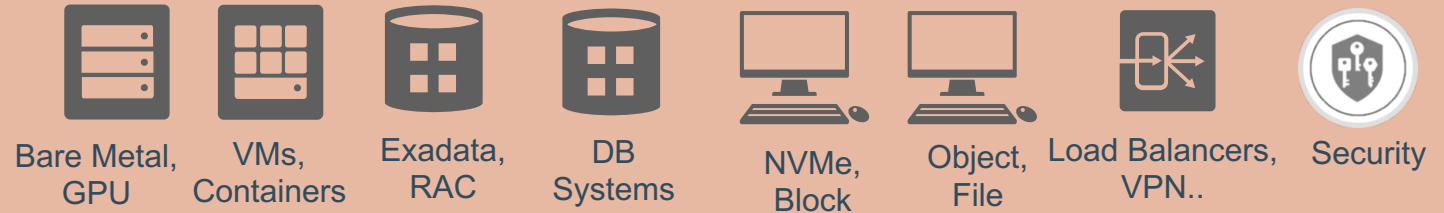
Off-box Network Virtualization

Off Box Network Virtualization – moves storage and network IO out of the hypervisor and enables lower overhead and bare metal instances

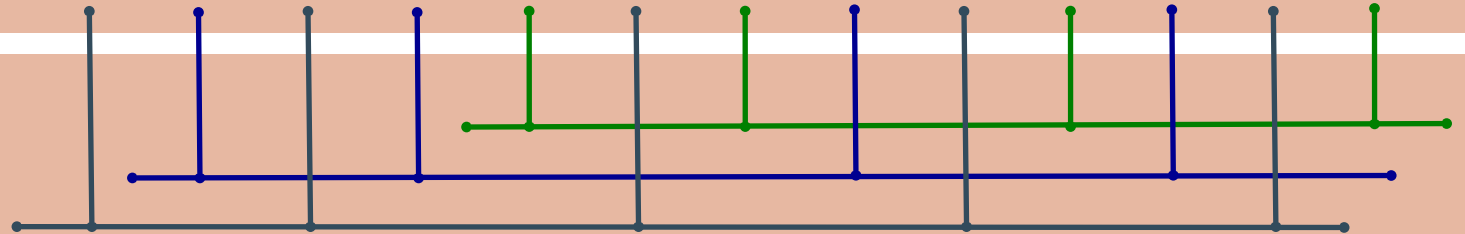


Oracle Cloud Infrastructure Services

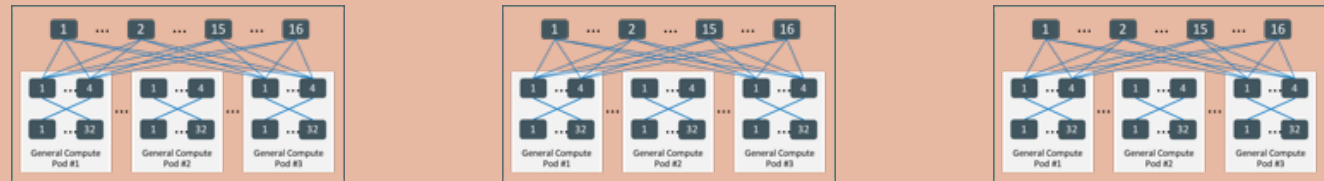
**COMPUTE, STORAGE,
DATABASE, LBs, Security...**



VIRTUAL NETWORK



PHYSICAL NETWORK



REGION

DATACENTERS

Availability Domain 1



Availability Domain 2



Availability Domain 3



Oracle Cloud Infrastructure Services

IDENTITY

Identity and Access Management

Granular, role based access control to cloud resources

NETWORKING

VCN, VPN, FastConnect, LB

Isolated software defined private networks

COMPUTE

Bare Metal, Dedicated Hosts, VMs

Bare Metal, Dedicated Hosts, VMs with same APIs; Managed Kubernetes

STORAGE

Local, Block, File, Object, Archive

Local, Block, File, Object and Archive storage options

DATABASE

Bare Metal, VMs, RAC, Exadata

Bare Metal, VM, Exadata, RAC and Active Data Guard support

AUTONOMOUS DATABASE

ADW, ATP

Only autonomous database in the cloud

SERVERLESS

Functions, Autonomous-Serverless

Log APIs calls for audit, bring your own keys

ANALYTICS

Streaming, Oracle Analytics Cloud

Software NAS Gateway, Data Transfer Appliance

NEXT LAYER SERVICES

Monitoring, Logging, Audit

Global DNS, global private connectivity at up to 97% less cost

SECURITY

Audit, Key Management

Log APIs calls for audit, bring your own keys

DATA MOVEMENT

Storage appliance, Data Transfer

Software NAS Gateway, Data Transfer Appliance

EDGE

DNS, Other Edge, Email

Global DNS, global private connectivity at up to 97% less cost

Differentiation

Technical

1. Performance
 1. Off-box network virtualization
 2. Bare Metal + Local NVMe storage
 3. All SSD Storage
 4. No Network, CPU or Memory over-subscription
2. Battle tested (NetSuite and other SaaS apps run on OCI)
3. DB Options - BM, VM, Exadata, RAC
4. Enterprise Apps support (EBS, JDE..)

Business

1. Aggressive and predictable pricing – cheaper than AWS
2. Industry's unique SLAs on Performance, Management and Availability
3. BYOL and Universal Cloud Credits
4. Support through one org



Oracle Cloud always free tier:

[oracle.com/cloud/free/](https://www.oracle.com/cloud/free/)

OCI training and certification:

<https://www.oracle.com/cloud/iaas/training/>

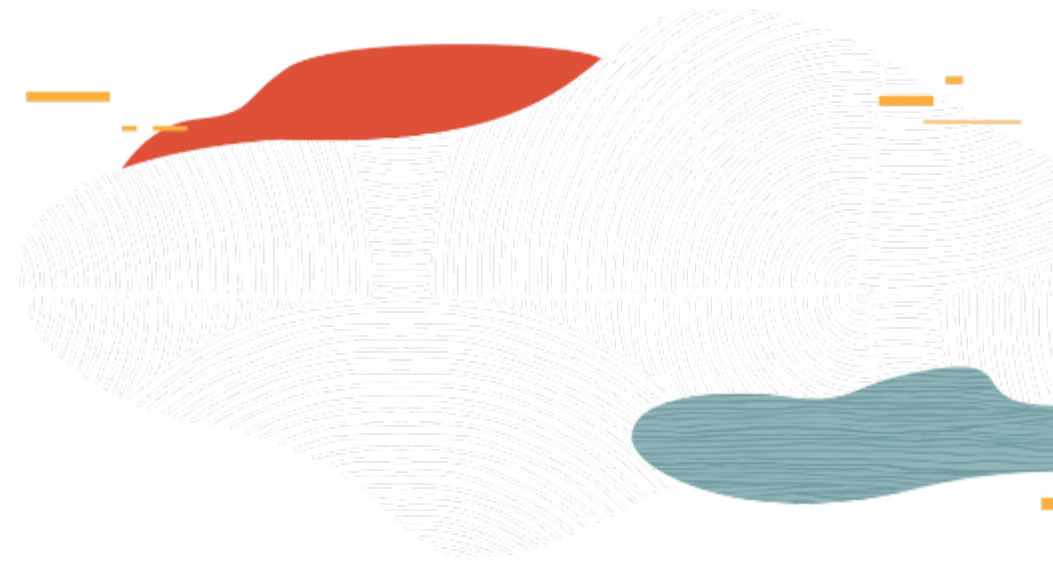
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Thank you

