



ORACLE

# Getting started with Oracle Cloud Infrastructure

**L100**

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Oracle Cloud Infrastructure

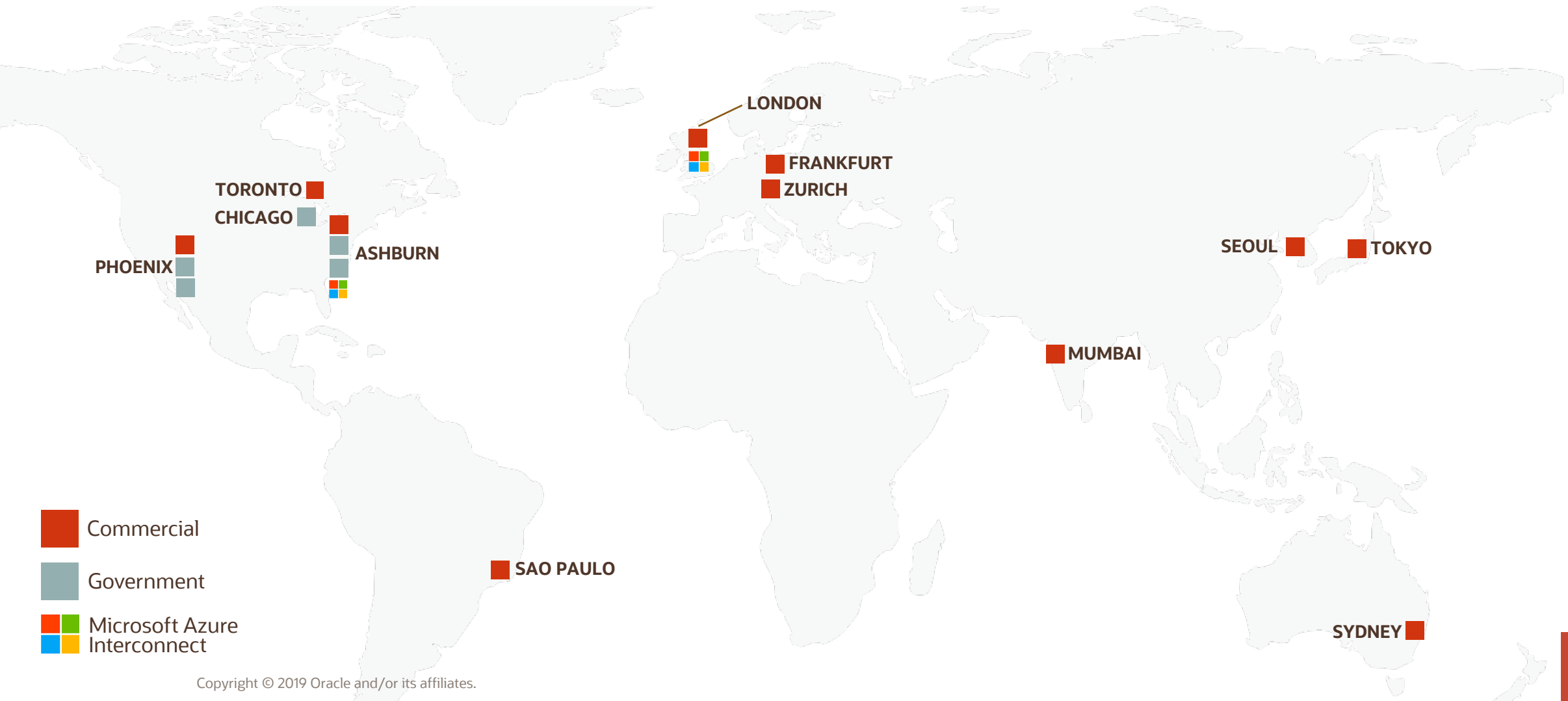
Nov 2019

## Safe Harbor Statement

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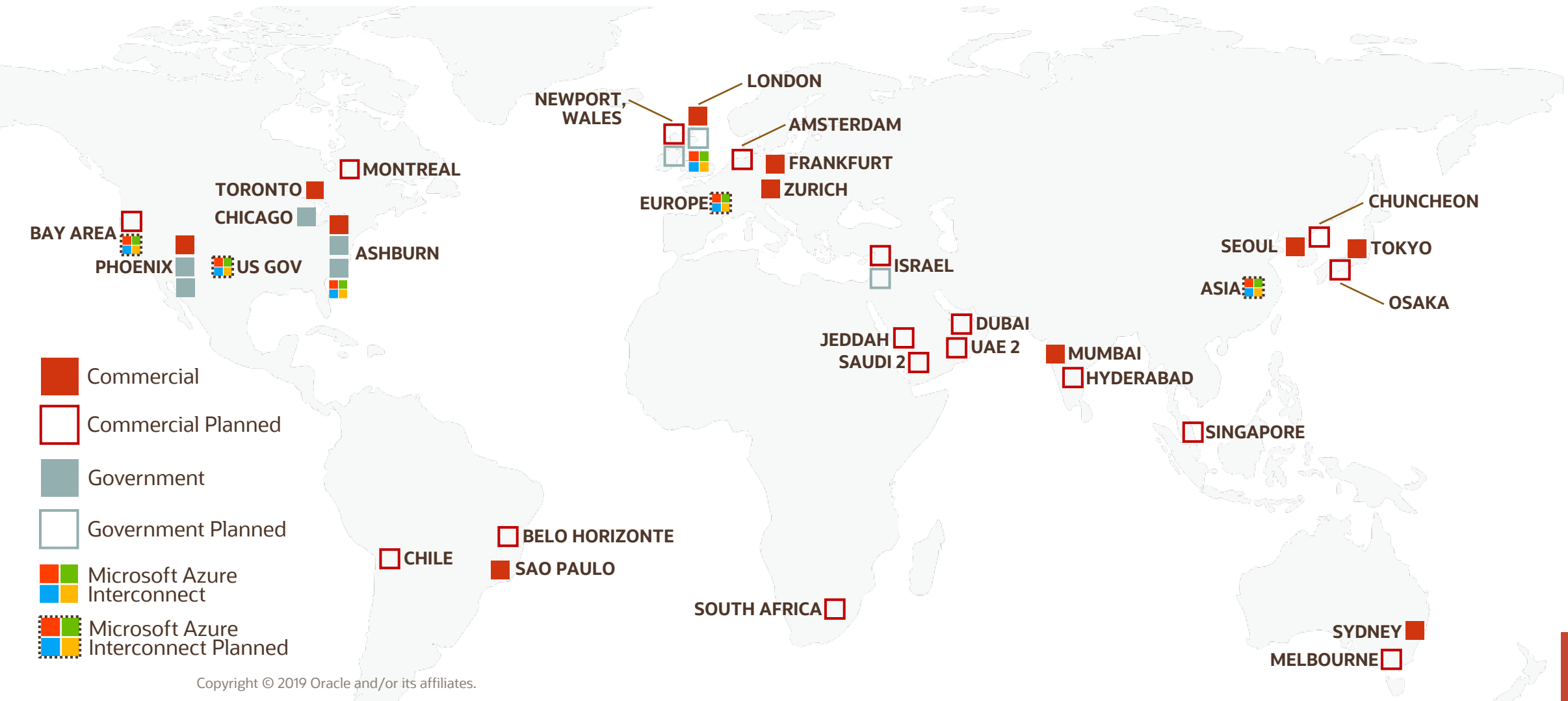
# Oracle Cloud Infrastructure Global Footprint

October 2019: 16 Regions Live



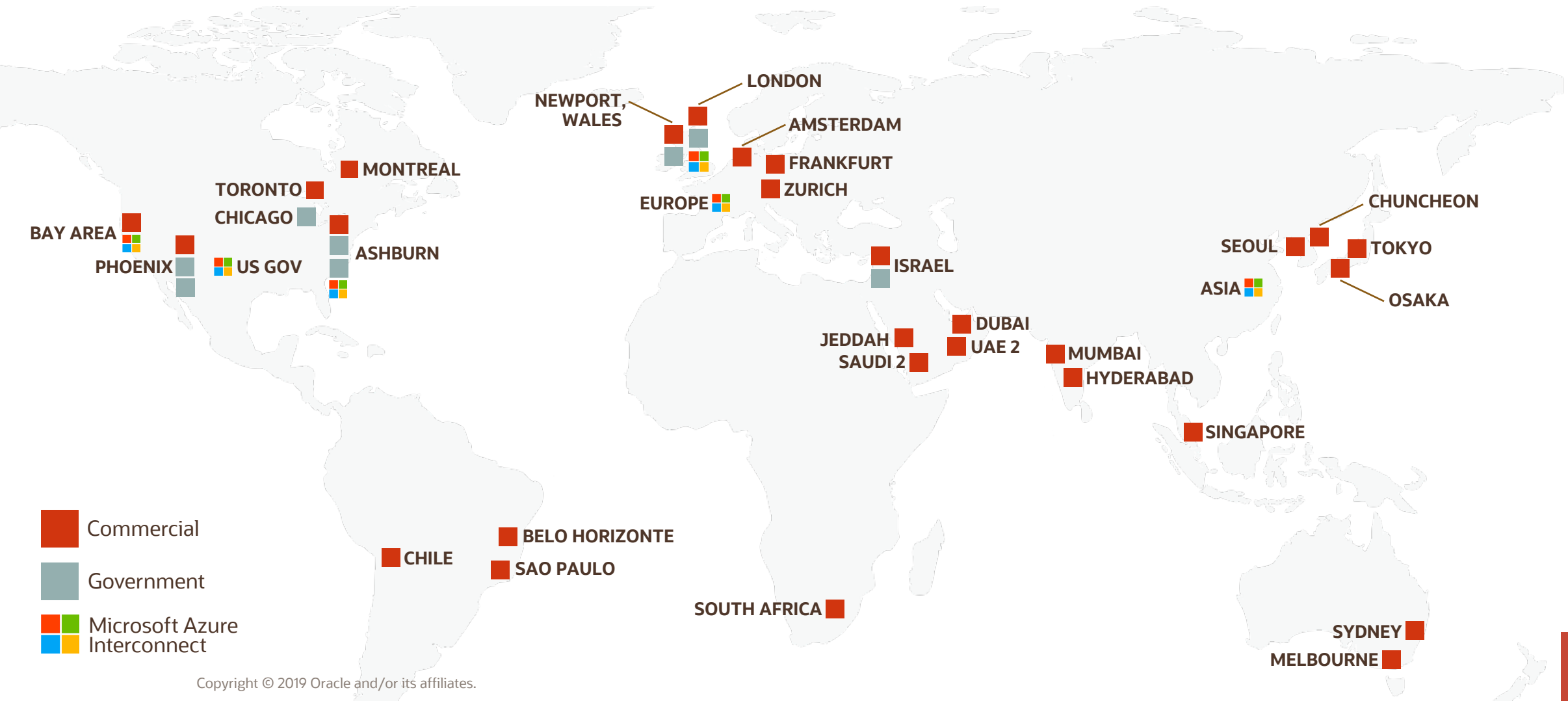
# Oracle Cloud Infrastructure Global Footprint

October 2019: 16 Regions Live, 20 Planned



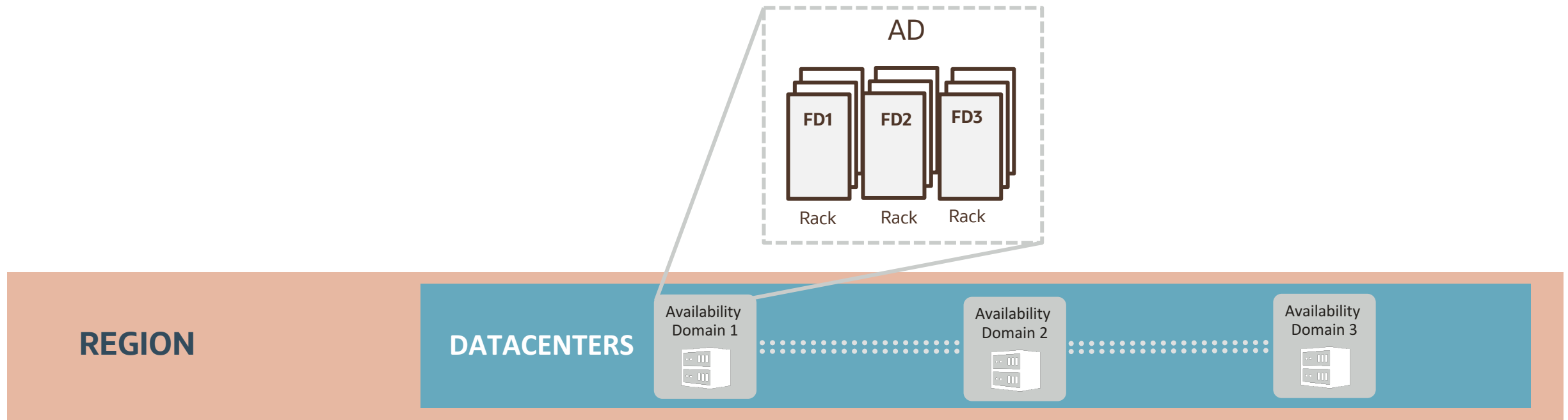
# Oracle Cloud Infrastructure Global Footprint

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

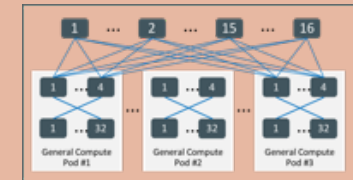
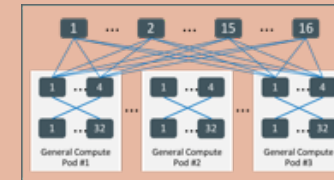
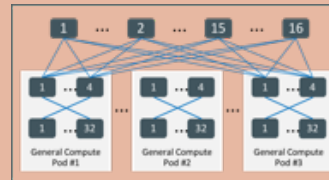
- OCI has chosen to launch regions in new geographies with one AD (to increase our global reach quickly)
- For any region with one AD, a second AD or region in the same country or geo-political area will be made available within a year to enable further options for DR and data residency

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



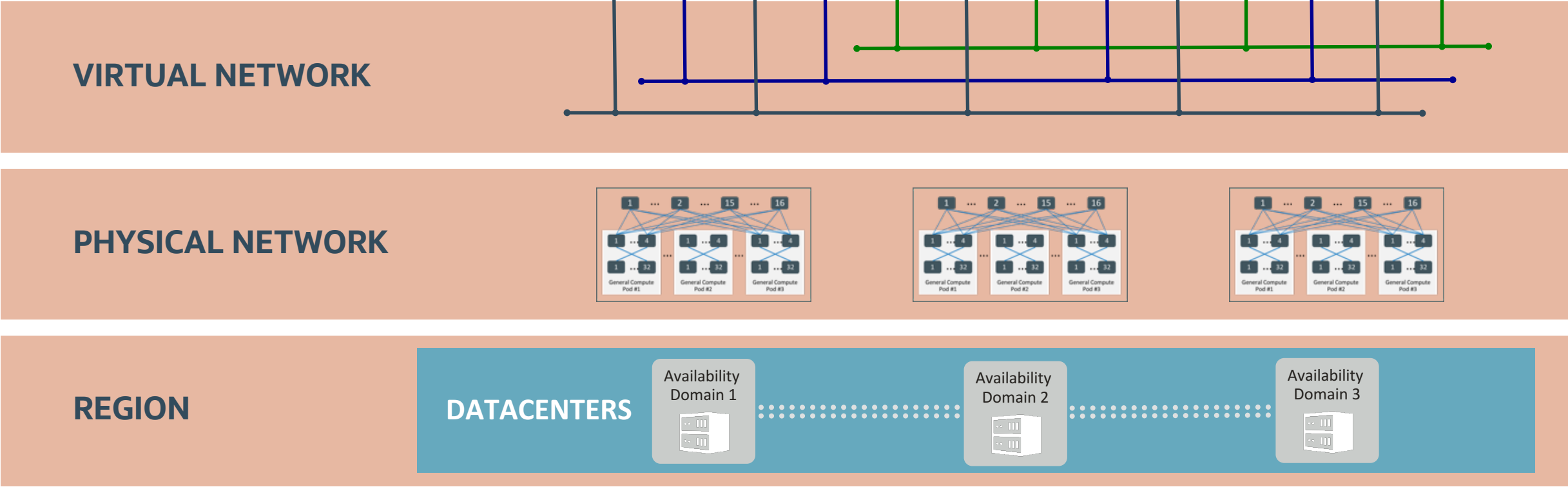
Availability Domain 3





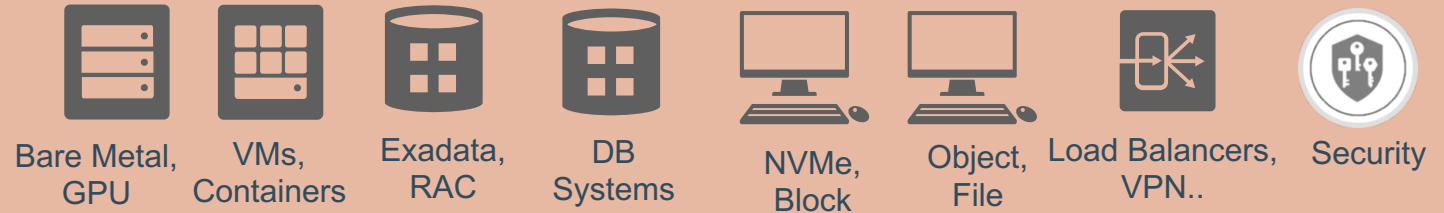
# Off-box Network Virtualization

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

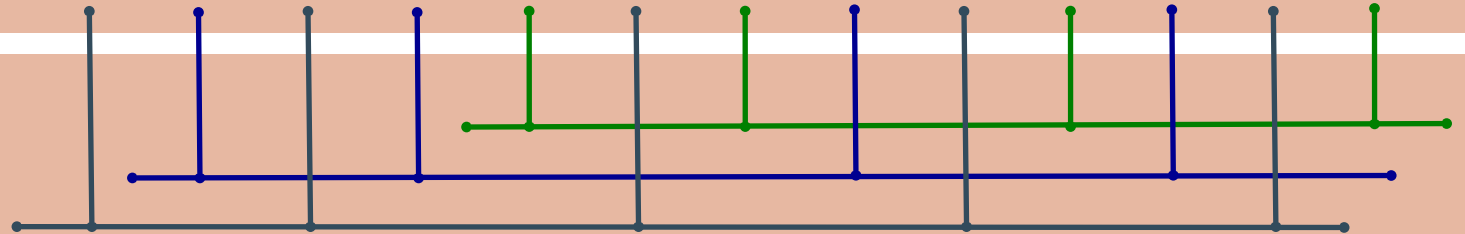


# Oracle Cloud Infrastructure Services

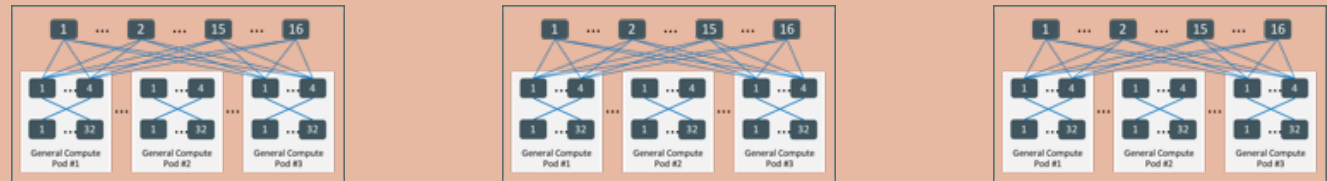
**COMPUTE, STORAGE,  
DATABASE, LBs, Security...**



**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/>

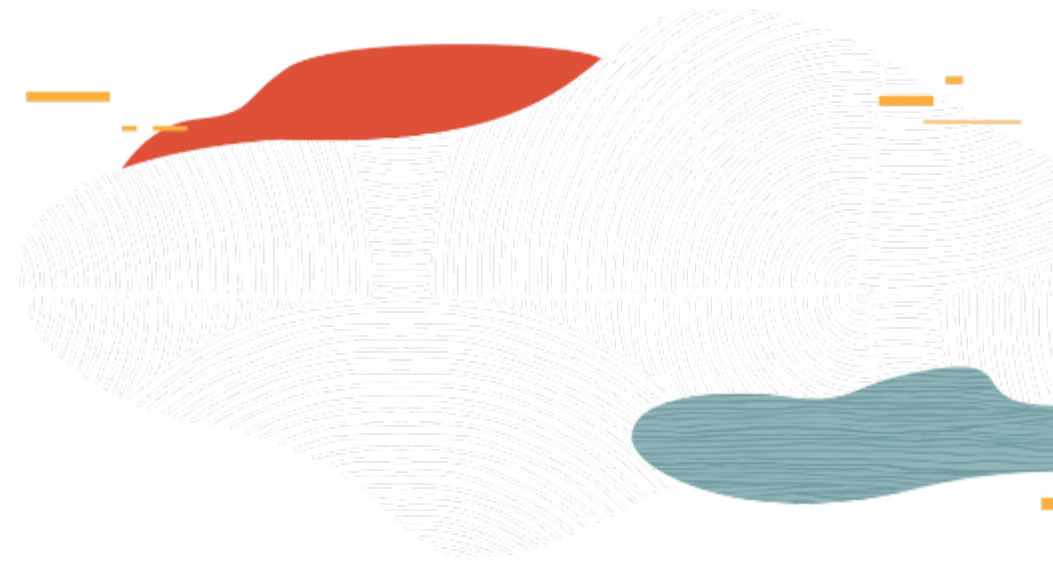
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[education.oracle.com/oracle-certification-path/pFamily\\_647](https://education.oracle.com/oracle-certification-path/pFamily_647)

### **OCI hands-on labs:**

[ocitraining.qcloudable.com/provider/oracle](https://ocitraining.qcloudable.com/provider/oracle)

### **Oracle learning library videos on YouTube:**

[youtube.com/user/OracleLearning](https://youtube.com/user/OracleLearning)



Thank you

