



# Move and Modernize Apps on OCI

Modernize your apps on a second-generation cloud

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Alexandre Fagundes

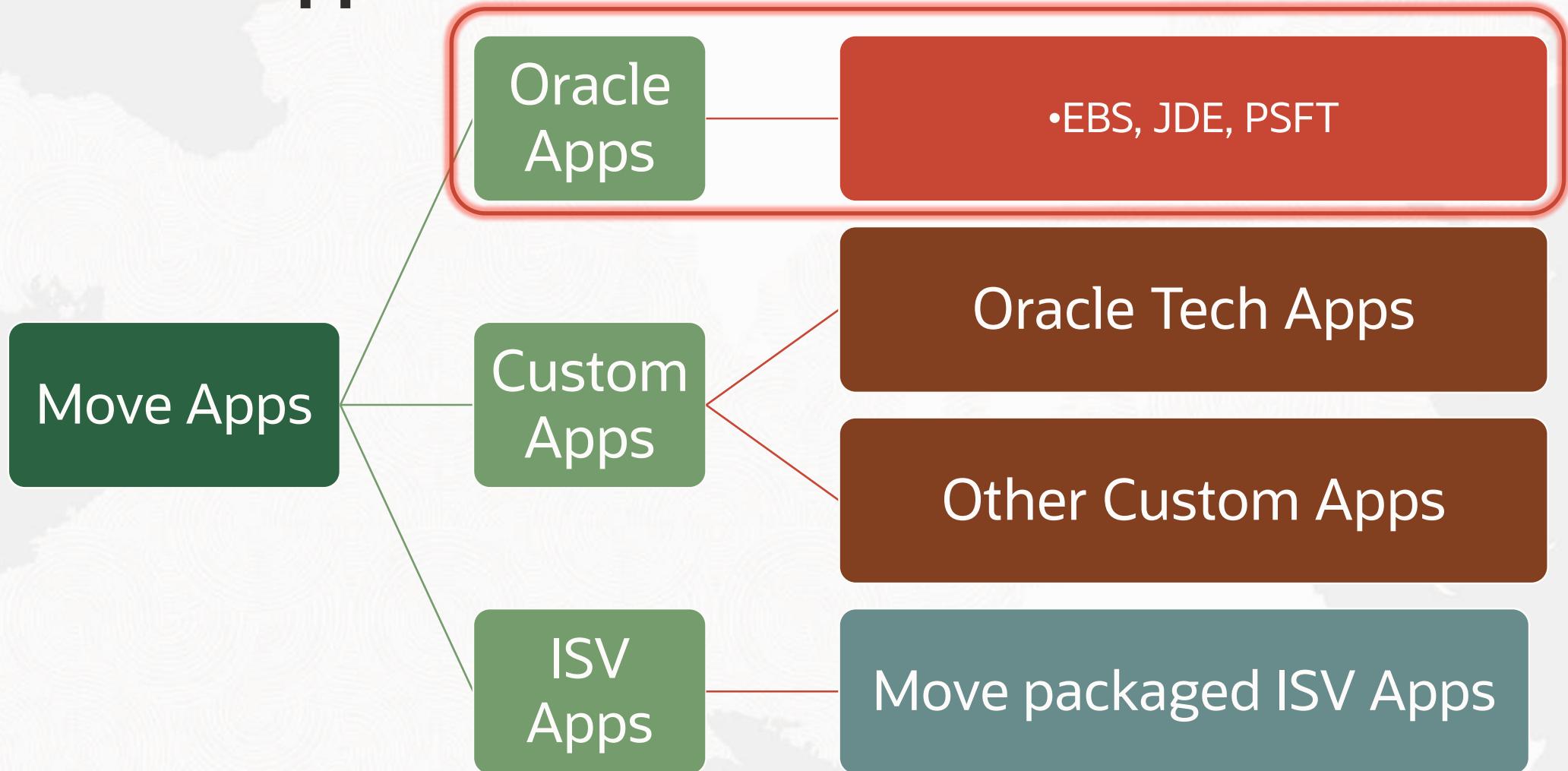
Cloud Architect | Oracle Latin America

## Safe harbor statement

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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.

# Move Oracle Apps to OCI



# Oracle Packaged Apps - Premier Support

Premier Support extended through at least 2033

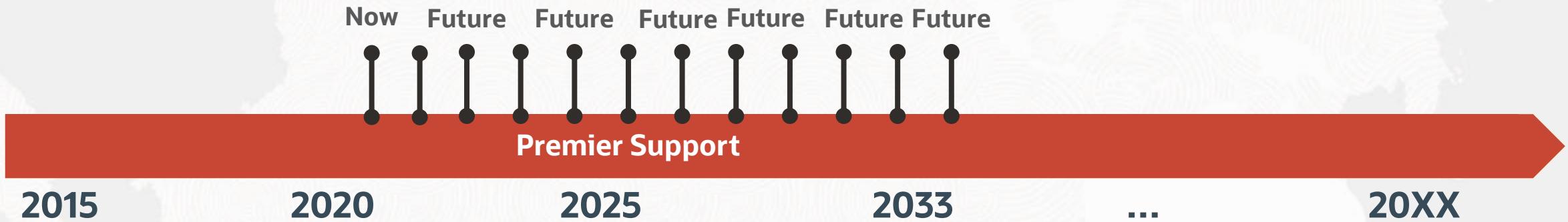
**No plans to end investment or support**

**Premier Support “through at least” till 2033**

**Rolling 10+ years of Premier Support**



Enabling customers to **confidently** maximize and expand their existing Oracle application investments with ample time for future planning based on Oracle's **commitment** to support its existing applications via a **stable** and **predictable long term** support policy.



## At Least a Decade of Oracle Premier Support

# Oracle Packaged Apps - Premier Support

Oracle Packaged Apps is Oracle's commitment to continuous innovation while also providing a commitment to offer Oracle Premier Support through at least 2033.

Oracle Packaged Apps includes:

- Oracle E-Business Suite (EBS)
- JD Edwards EnterpriseOne (JDE)
- PeopleSoft
- Siebel and
- Hyperion

## Commitment to Customers

- Oracle Premier Support through at least 2033

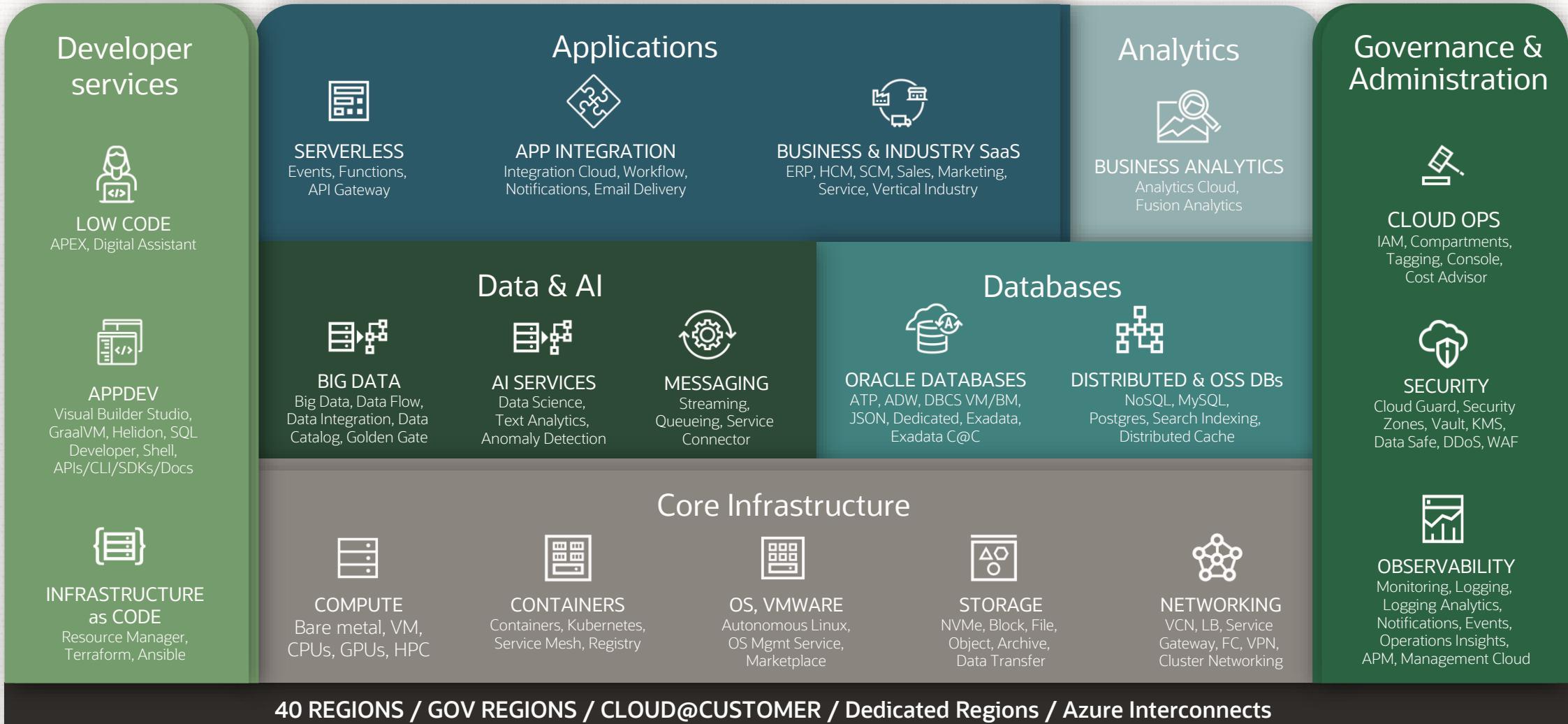
## Commitment to Innovation

- Receive ongoing new features
- Run same application on-premises or in Oracle Cloud Infrastructure (OCI)

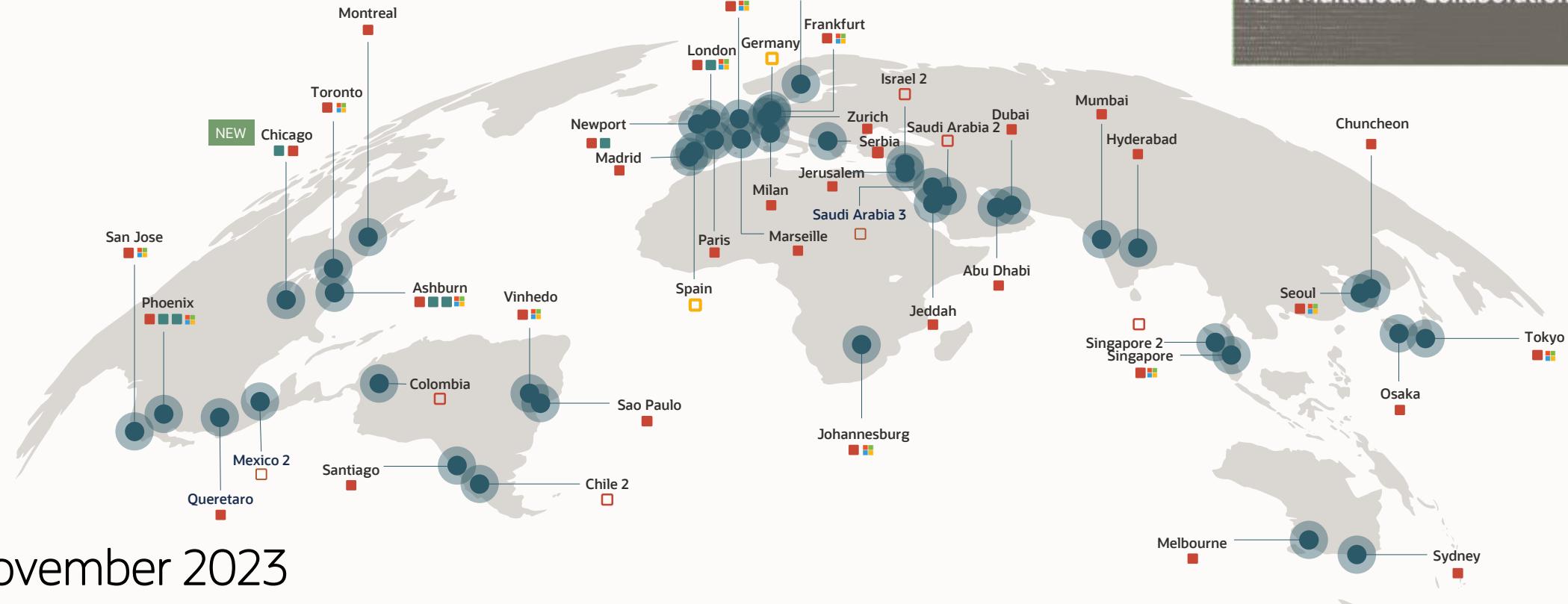
## Commitment to Product

- Transparent product roadmap
- Ongoing R&D investment Key Benefits
- Gain peace of mind with no surprises
- New features without upgrades
- No forced migrations
- Ample time for future planning
- budgeting and allocating resources
- Tailor to your enterprise's business and IT strategies
- Get more value from existing application enhancements

# OCI: A complete Cloud Infrastructure Platform



# OCI Global Footprint



November 2023

46 regions; 6 more planned

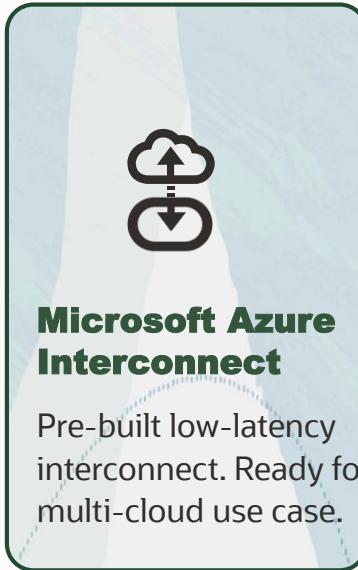
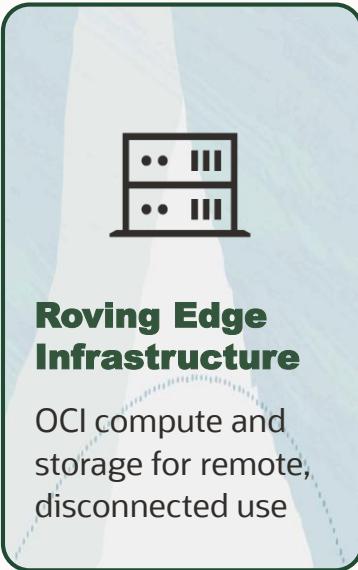
12 Azure Interconnect Regions

100% renewable energy by 2025



- Commercial
- Commercial Planned
- Sovereign Planned
- Government
- Microsoft Interconnect Azure

# OCI: A Comprehensive Deployment Choice



**Support Cloud, Edge, On Premises & Multi-Cloud Computing Scenarios**

# OCI Advantage

## Comprehensive Regional, Global & Industry Compliance

### REGIONAL

#### Australia



- IRAP
- APRA
- Certified Strategic (DTA)

#### India



- MeitY
- RBI/IRDAI

#### Singapore



- MTCS
- MAS TRM
- ABS

#### South Korea



- FSI
- ISMS

#### Japan



- ISMAP
- FISC
- NISC
- Three Ministries
- My Number Act

### GLOBAL



SOC 1 : SOC 2 : SOC 3



9001 : 27001 : 27017 :  
27018 : 27701 : 20000-1



Level 2  
CSA STAR

[Read More](#)

### INDUSTRY

#### Government



MeitY [India]



IRAP [Australia]



NISC [Japan]



K-ISMS [Korea]



My Number [Japan]



DoD DISA SRG IL5



FedRAMP



JAB P-ATO



G-Cloud Supplier



G-Cloud 12



Cyber Essentials Plus [UK]



CJIS



NIST



Canada Protected B



PCI DSS – Level 1



FISC [Japan]



RBI Guidelines [India]



APRA CPS 231,  
SPS 231, HPS 231  
[Australia]



abs Guide [Singapore]



MAS Guidelines [Singapore]



IRDAL 5/142/2017  
[India]



EBA



HIPAA



HITRUST CSF



TISAX



GxP

# Why Oracle Packaged Apps Customers are choosing OCI

- 1 Far easier to migrate critical enterprise applications
- 2 Superior price-performance
- 3 Autonomous services make it far easier to manage security, performance, and scalability
- 4 The most complete support for hybrid cloud strategies
- 5 Security that's built in, on by default, at no extra charge
- 6 All the services developers need to build cloud-native applications

# Oracle Packaged Apps Migration Options to OCI



## DIY – Do It Yourself

### Use Your Own Resources & (Our) Tools

Use reference architecture to plan and execute the migration to OCI with your own resources.

[Read More  
- EBS](#)

[Read More  
- PSFT](#)

[Read More  
- JDE](#)

[Read More  
- Siebel](#)



## OCI Accelerators Assisted (Cloud Manager / OCP)

### Use Free OCI Tooling for Packaged Apps

Migration and lifecycle management tasks, such as provisioning & backups for EBS, PeopleSoft, JDE and Siebel.

[Read More  
- EBS](#)

[Read More  
- PSFT](#)

[Read More  
- JDE](#)



## Expert Services Assisted

### Leverage Oracle or Partner Services

Migration and application management delivered by Oracle or through a partner organization.



## OCI Cloud Lift Services Assisted

### Faster migration with OCI Cloud Lift Services

Get guidance from Oracle cloud engineers on all aspects of cloud migrations.

[Read More](#)

# Oracle Cloud Lift Services

Included with your Cloud Agreement to accelerate onboarding and success

A comprehensive cloud solution includes infrastructure, software, processes, and people

## Oracle Packaged Applications

E-Business Suite, JD Edwards, PeopleSoft, Siebel, Hyperion, and others

## Custom Apps on Oracle Database

Custom applications built on an Oracle database or Exadata

## HPC

High performance computing applications

## Cloud Native Applications

Cloud Native integration including OKE, Oracle Data Science, Steaming, Functions, etc.

## VMware

Oracle Cloud VMware Solution

## Data Warehouse & Analytics

Oracle Data Warehouse, Oracle Analytics Cloud, or 3rd party analytics workloads

*A dedicated group of Oracle Cloud experts will assist you from planning through go-live activities, accelerating your time to value and enabling your staff to focus on innovation.*



# Oracle Cloud Infrastructure – Database Migration

Fully managed, easy to use database migrations into Oracle Cloud

## Database Migrations

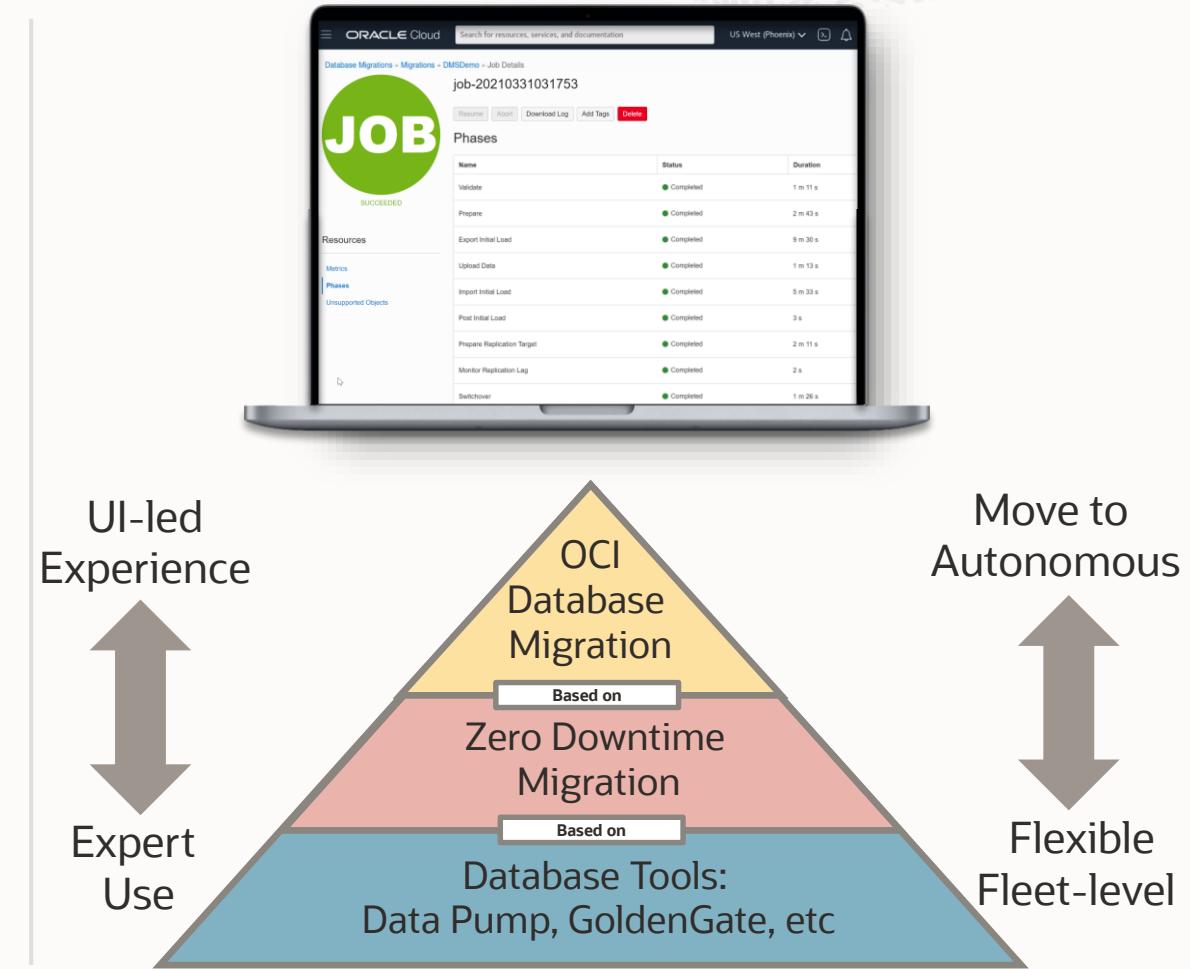
- Reduce cost and improve performance in Oracle Cloud
- Migrate databases, free for 6 months per migration

## Core Use Cases

- Machine-assisted migrations for Oracle Databases, Data Marts and Data Warehouses into Oracle Cloud

## Differentiated Use Cases

- Simplifies underlying technologies and resources
- Logical Offline and Online Migrations
- Schema/Metadata Migration
- Based on enterprise-strength Oracle tools Zero Downtime Migration, GoldenGate, and Data Pump



# Pricing: DMS is FREE for all common use cases

## Included:

- DMS cloud service/software that operates the migration
- On-premises agent, ZDM for optional use cases
- OCI managed infrastructure that DMS runs on
- GoldenGate Marketplace license for DMS migration

## Not included:

- Customer managed OCI resources used for DMS operation:
  - *compute used for GoldenGate, Object Store, Oracle Stream Service*
- FastConnect or other on-premises to cloud network connectivity
- Source or target database service costs

## Exceptions:

- Migrations that run more than 183 days(6 months) after they have been created
- Migrations running for more than 60 days idle (no data transferred)
- Billing starts after time limits have been exceeded with \$0.20 / hour per migration

# Get more from your existing systems and data



## Multicloud capabilities

### Oracle Azure Interconnect

Enables low latency access to both clouds as one for all your workloads

### Portability

Strong support for open standards like Terraform, Kafka, Docker



## Built-in security

### Cloud Guard

Quickly/continuously monitor & report on security posture at no extra cost

### Security Zones

Easily enforce maximum infrastructure security with all your applications



## Insights and visualizations

### Analytics Cloud

Enable self-service access to data analytics across all your apps in the cloud

### Observability and Management

Visibility and rapid insights across all layers of the stack



## New application use cases

### Integration Cloud

Migrate/build integrations to a broad ecosystem of SaaS & other applications

### API Gateway

Securely serve and manage APIs for external or internal customers

# Customer examples



## Built-in security

Oracle Cloud Guard helps to monitor their security posture – including their E-Business Suite implementation – and enables continuous improvement

[Read the story](#)

## Insights & visualizations

Leveraged Oracle Observability & Management to monitor the user digital experience with applications like Oracle PeopleSoft

[Watch the story](#)

## New app use cases

Navitas can now integrate other applications with Oracle E-Business Suite, and access new services to facilitate data capture and data visualization

[Read the story](#)

# Gain speed and efficiency at your own pace



## Increased efficiency

### Autonomous services

Automate database and Linux tasks & improve operational efficiency with ML

### Infrastructure-as-Code

Improve DevOps productivity with open standard Terraform



## Greater agility

### DevOps

Streamline your software deployment process

### Containers\*

Reduce the time and cost to deploy modern applications



## Smarter Apps

### Digital Assistant and AI services

Enhance user experience and drive innovation with pre-built services

### Machine Learning

Services for data scientists to collaboratively build, manage and deploy ML models



## Connected business processes

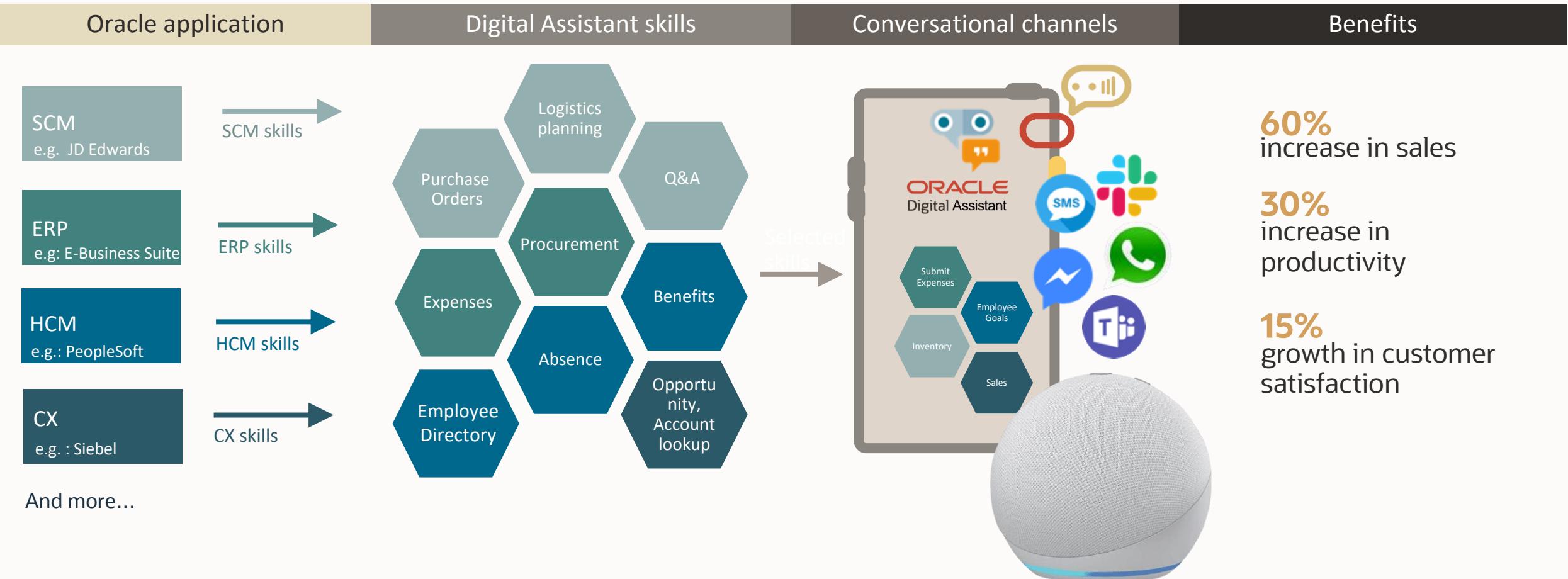
### Oracle Cloud Apps

Leverage a suite of Oracle SaaS applications that integrate with your packaged apps

### Oracle Blockchain Platform Cloud Service

Share immutable, trusted data w/ multiple parties

# Oracle Digital Assistant: AI-powered interface for Oracle apps



# Customer examples



## Smarter apps

Oracle Digital Assistant provides employees with chatbot functionality that integrates with their E-Business Suite application

[Read the story](#)

## Greater efficiency

Leverages E-Business Suite with Autonomous Database on OCI for advanced analytics & machine learning – with no database administration

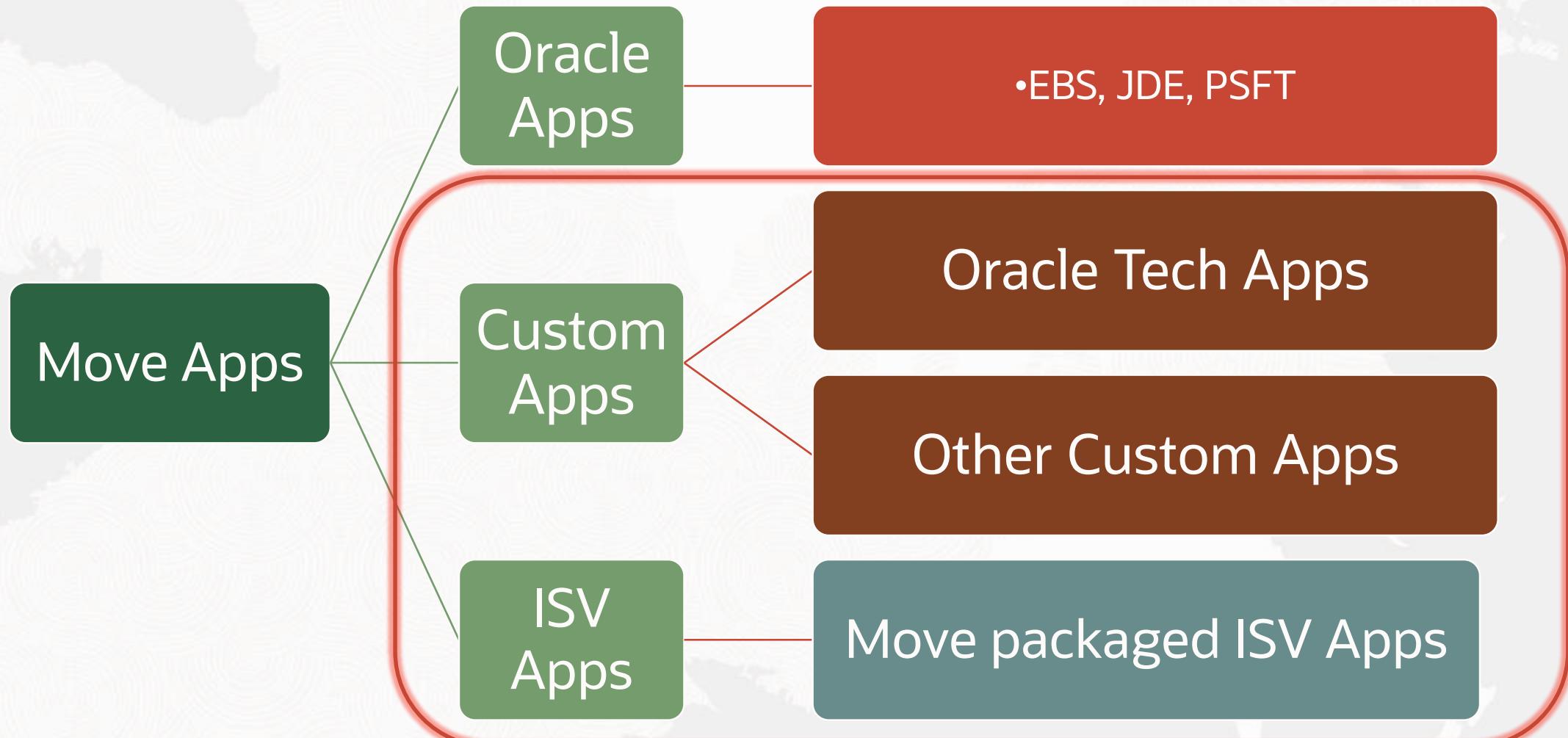
[Read the story](#)

## Connected business processes

Oracle Warehouse Management & Transportation Management cloud apps integrate with their Oracle packaged apps and streamline operations

[Read the story](#)

# Move Custom Apps to OCI



# Why Move Custom Applications to the Cloud?

General	Custom App Specific
<ul style="list-style-type: none"><li>• Increase agility/flexibility and automation</li><li>• Improve performance and scalability</li><li>• Move to OPEX and pay for only what you use</li><li>• Reduce overall costs</li><li>• Improve security and availability</li><li>• SaaS is the future</li></ul>	<ul style="list-style-type: none"><li>• Modernize older applications</li><li>• Better support frequent application changes</li><li>• Better integration to new or existing services</li><li>• Hosting provider problems</li><li>• Hardware infrastructure is aging</li><li>• High admin costs</li></ul>

# Three Cloud Strategies for Migration/Modernization

## Move

### Move application “As Is” / Update infrastructure

Move complete VMs to the cloud (e.g., KVM, VMware)

Consolidate compute, storage, databases

Use Flex infrastructure

Rehost

## Improve

### Upgrade software / increase automation

Improve by updating architecture to add performance, security, add automation, leverage managed services, Autonomous DB, upgrade software

Replatform

## Modernize or New

### Shift to New Technology or Add Functionality

Move and rewrite to containerize with Docker and Kubernetes, run on Oracle Container Engine, App Dev in the cloud, add new functionality like mobile, ML

Refactor



# Types of Custom Apps to consider moving to OCI

Leveraging Managed services, unique infrastructure and automation

## Oracle Based Custom Apps

App Tier: WebLogic (Java EE)  
DB: Oracle DB, MySQL, JSON DB

- DB Managed services
- Improved Productivity
- Java custodian
- WebLogic - OCI VM or OKE
- Price Performance
- BYOL/UCM choice

## Other Custom Apps

Apps: Java, PHP, Python, Go, NodeJS  
DB: Any DB (Oracle or Non-Oracle)

- Price performance
- Support for OSS, BYOS
- Open Source
- Lower cost
- No Vendor lock-in
- OCI benefits



# Running Oracle Based Applications on OCI

## WebLogic (Java) Apps

App Tier: WebLogic (Java EE)  
DB: Oracle DB, MySQL

- DB Managed services choice
- Improved Productivity
- Java custodian
- WebLogic - OCI VM or OKE
- Price Performance
- BYOL/UCM choice

## Options

Multiple options and flexibility

- Rehost
  - Get the benefits of OCI
  - Minimize effort and risk
- Re-platform
  - Automation + Managed Services
  - Flexible license options
- Re-factor
  - Modernize using containers
  - Elastic scaling, self-repairing



- Marketing services company with 4,000 employees and \$1B in annual revenue
- Migrated 27 apps (custom apps running on Oracle WebLogic & Database, E-Business Suite) from on-premises to Oracle Cloud
- Improved performance for back-office workloads by 10X
- Concurrent financial processes that used to take 2 hours now take 10 minutes

# Running Other Custom Applications on OCI

## Any Custom App

App: Java, PHP, Python, Go, NodeJS  
DB: Any DB (Oracle or non-Oracle)

- Price performance
- Support for OSS, BYOS
- Oracle DB Managed services
- Open Source
- Lower cost
- No Vendor lock-in
- OCI benefits

## Options

Multiple options and flexibility

- **Rehost**
  - Get the benefits of OCI
  - No re-architecture
- **Re-platform**
  - Automation
  - Scalability
- **Re-factor**
  - Modernize using containers
  - Elastic scaling, self-repairing



- Large private university in Spokane,
- Migrated Ellucian Banner, a third-party application, and Oracle Database to OCI
- Provisioned new servers in minutes vs. weeks
- Enhanced performance of running on bare metal servers in the cloud
- ~25% savings by switching to OCI
- Deployments take 75% less time than they would on-premises

# What Cloud Infrastructure Capabilities Matter Most?

OCI - designed for both Cloud Native & VM based Applications



## High-Performance Flexible Infrastructure

- Virtual Machines
  - Flexible CPU and Memory
- Bare Metal instances
  - Max Performance & consolidation
  - RDMA Networking
- Performance, availability, and manageability SLAs



## Automation & Integration

- Autonomous Database & Linux
- Infrastructure as a Code
- Managed Platform Services
- Oracle Integration Cloud
  - SaaS to on-premises
  - Prebuilt adapters & recipes
- SOA – BYOL and UCM



## Cloud, Hybrid Deployment Choices

- Public Cloud
  - Bare metal, container engine, Database services
- Government Cloud
  - US and UK
- Cloud @ Customer
  - Exadata Cloud @ Customer
  - Dedicated Region
- Oracle Cloud VMware Solution
- OCI – Azure Interconnect



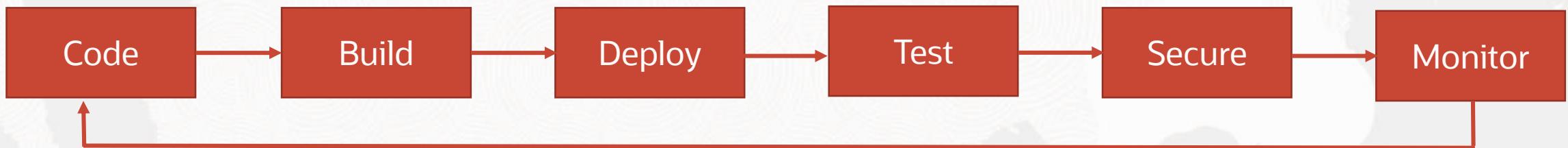
## Improved Observability

- Visibility across cloud and on-prem
- Open and interoperable
- ML-based rapid troubleshooting
- Predictive and preventative analytics
- Real-user experience monitoring

# Move and Modernize Development using DevOps on OCI



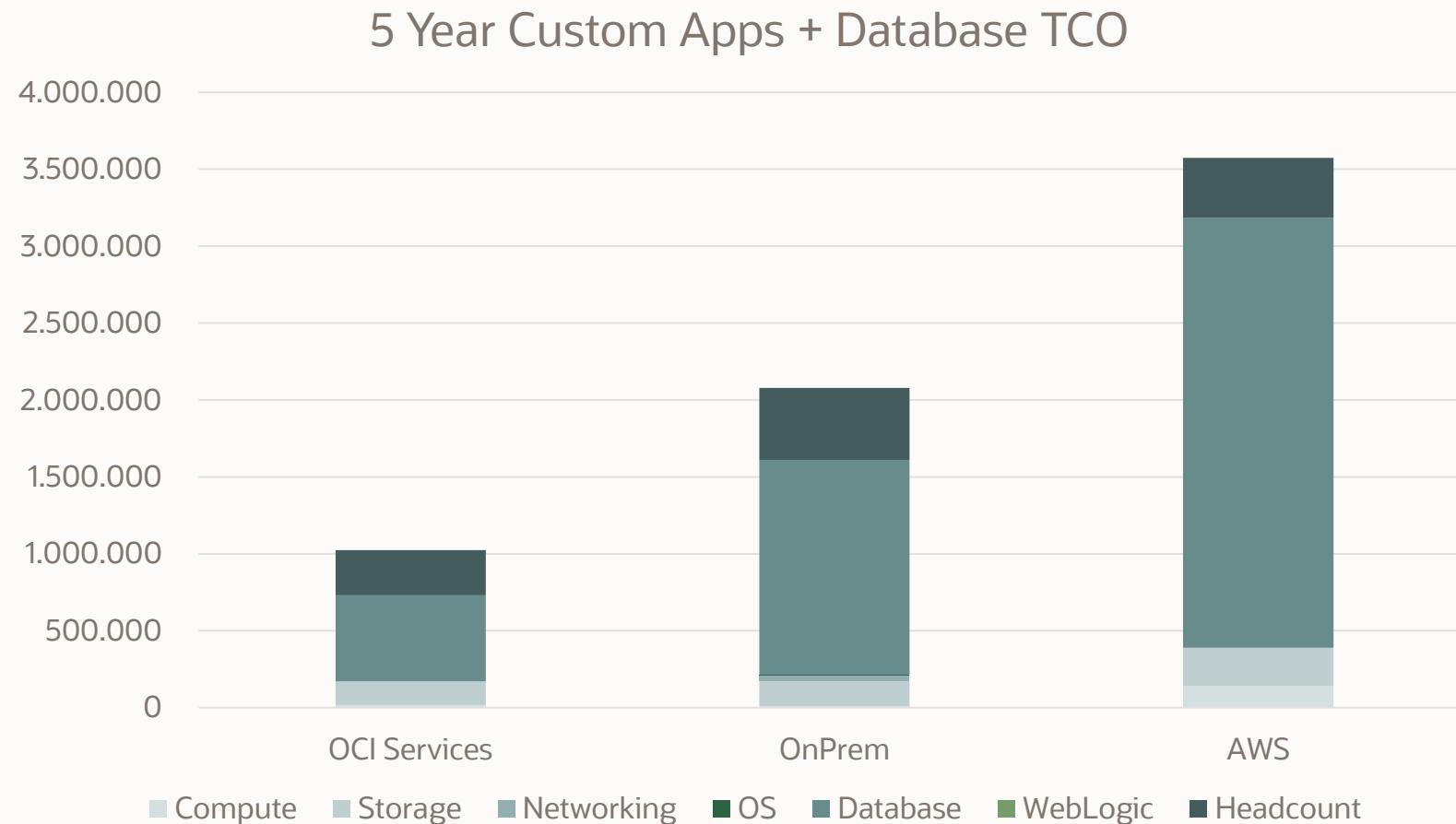
## Software Development Lifecycle



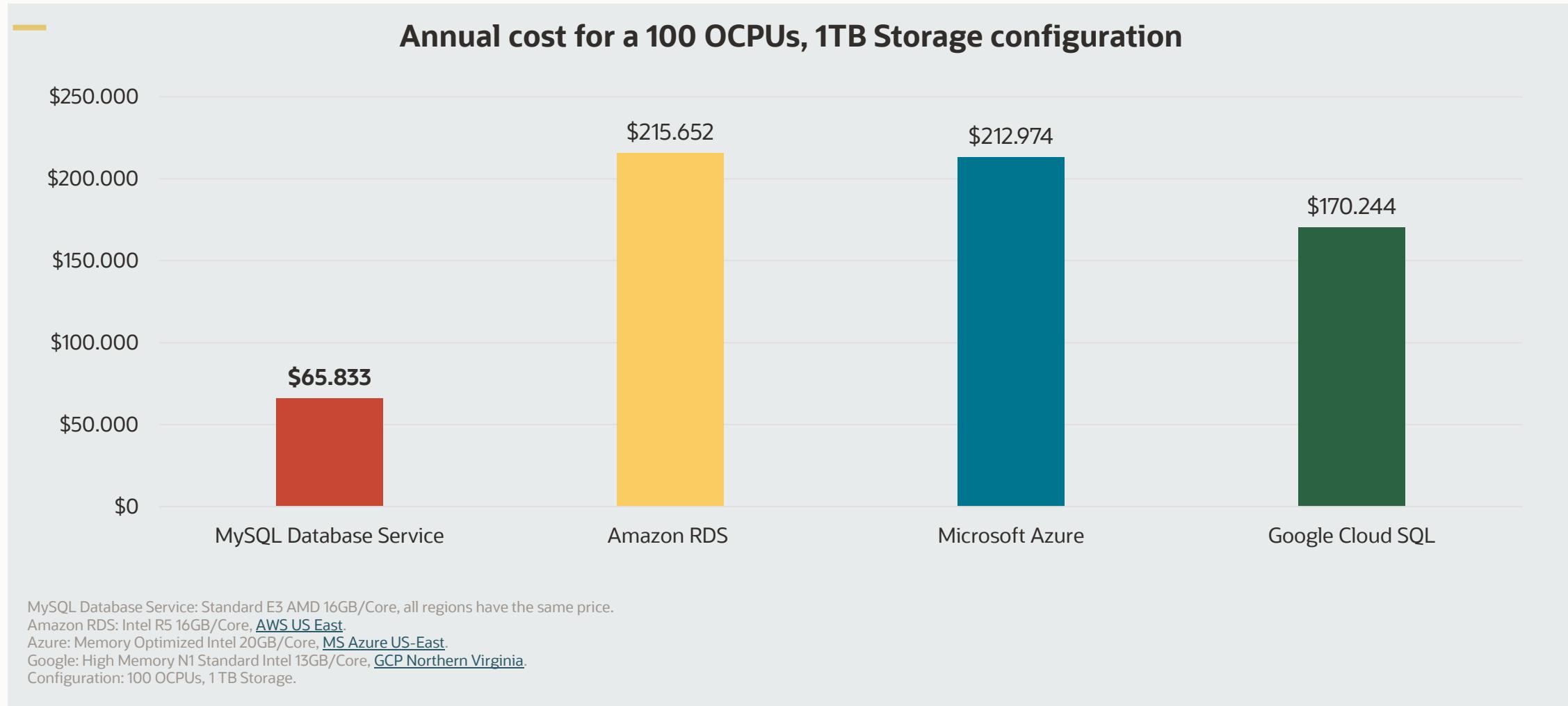
# Ensuring Financial and Performance Benefits

Move Custom Apps and Oracle Database to OCI - 5 Year TCO\*

OCI is 51% less than On-Premises, and 71% less than AWS



# OCI MySQL Database Service costs less



# Complete your migration with peace of mind

Maximize TCO & minimize risk with these business benefits – only from OCI



## Flexible Licensing & Infrastructure

- Bring Your Own License
  - BYOL from on-prem to OCI
- Flexible Infrastructure
  - Right size your VMs for CPU/Memory
  - Flexible Load balancing
- Universal Credits
  - Commit to an annual amount that can be applied to IaaS and PaaS services
  - Predictability of spend



## Strong SLAs & No Re-Architecture

- No Re-Architecture
  - Application and data move as-is
  - Keep customizations integrations
  - No retraining required
  - Fastest path to cloud
- Availability, Performance, & Manageability SLAs
  - With high-availability compute, block volume, object storage, and FastConnect services
  - The first cloud vendor to guarantee performance



## Cloud Lift + Consulting Services

- Cloud Lift Services
  - Dedicated resources to migrate workloads at no cost
  - Support from planning to go-live
  - Oracle and non-Oracle workloads
- Included with your Cloud Agreement to accelerate onboarding and success
- Support
  - Oracle Linux and Java support included on OCI

# What Blueprints Can I Follow to Ensure Success?

## Oracle Cloud Infrastructure Reference Architectures

Access to OCI best practices framework

### Get Top Oracle Cloud Infrastructure reference architectures

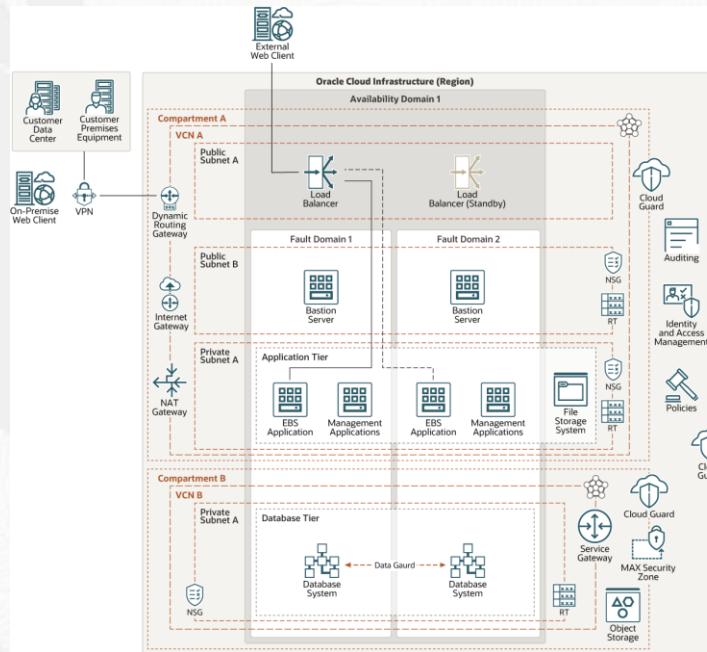


Image: Deploy E-Business Suite in OCI

Access OCI reference architecture (<https://www.oracle.com/cloud/architecture-center/>) for:

- Cloud best practices including availability, performance, security, and costs
- Access to OCI best practices framework
- Migration automation to OCI
- Latest deployments updates from customers and partners who are using OCI to drive innovation

### Automation Available

You can deploy this pattern using downloadable code or automated provisioning, as described in the Download or Deploy section.

[Learn more](#)

[Deploy to Oracle Cloud](#)

[Go to GitHub](#)

# Custom Apps Reference Architecture Examples



# Move Custom Applications Resources

## Next Steps

- Try the [Oracle Cloud Free Tier](#)
- Watch this [Move Custom Overview Video](#)
- Try a [Move Custom Application lab](#)

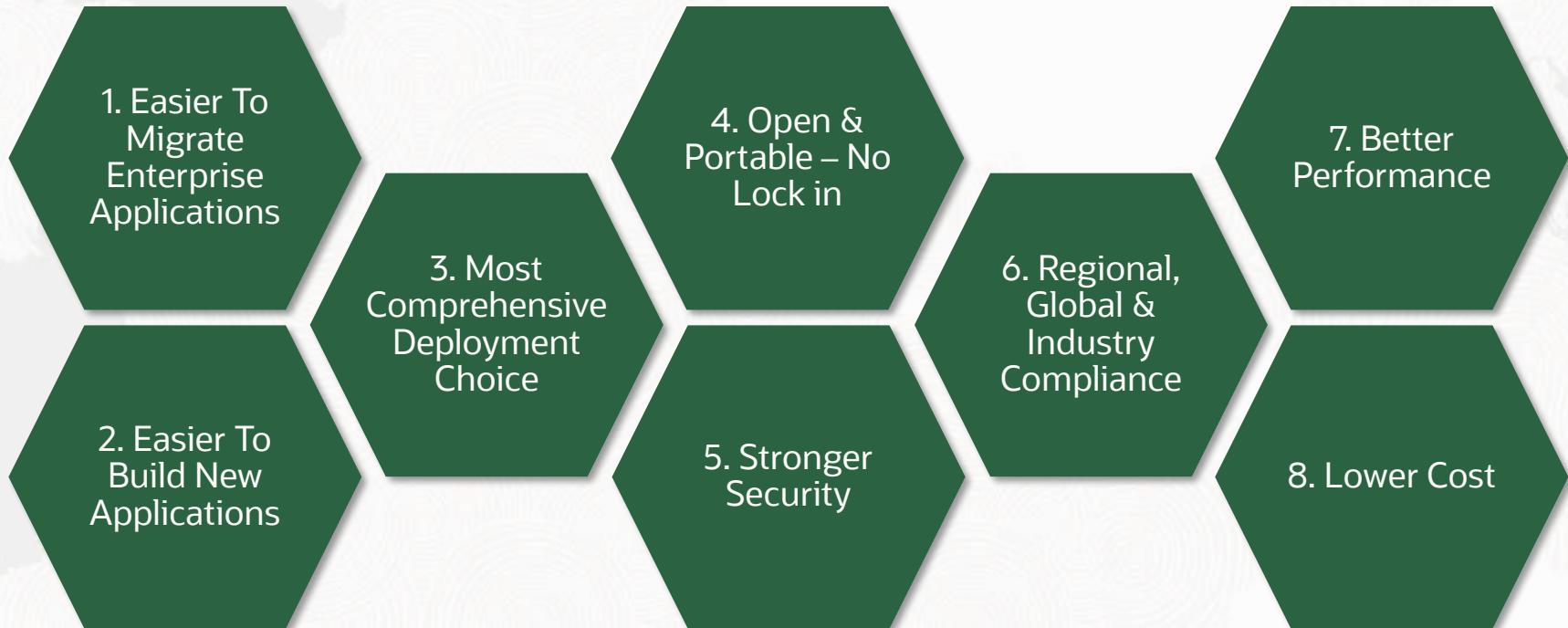
## Resources

- [Oracle Cloud Infrastructure Documentation](#)
- [Migrating Custom Applications Docs](#)
- [Reference Architectures](#)
- [Oracle Database Cloud Migration Solutions](#)

## Videos:

- [Migrating from Amazon RDS to Oracle MySQL Database Service](#)
- [Migrate MySQL from On Premise to MySQL Database Service](#)
- [Running WordPress with Oracle MySQL Database Service](#)
- [Running Drupal with Oracle MySQL Database Service](#)

# Why OCI ?



Read More:

[oracle.com/cloud/why-oci/](http://oracle.com/cloud/why-oci/)



# Thank You!



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