

ORACLE

# Everything, Everywhere *All at Once*

Application Development on Oracle

---

**Prasad Subramanian**

Senior Director

Oracle Cloud Infrastructure

March 16, 2023



---

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.

App development &  
modernization does not  
need to be one size fits all

Many of you have told us about ...

“ **On-premises workloads you can't move to the cloud** ”

“ A complex mix of traditional and cloud native apps ”

“ The need for multicloud ”

We believe in the power of **AND**

Extend **AND** enhance on-premises apps

Use 3<sup>rd</sup> party **AND** open-source technologies

Build Cloud native apps across OCI **AND** Multi Cloud

# Support any app architecture, any workload

## with OCI's unique infrastructure



Industry first!

Flex Infrastructure



Off-Box Virtualization



High-Performing Networks



Built-in Security at  
No Additional Cost

Power new **AND** existing workloads

Traditional and cloud native apps

HPC / Machine Learning

Compute-intensive apps

Network-intensive apps

Critical databases and shared data



# Oracle's complete app development platform for developers

## APPLICATION DEVELOPMENT SERVICES + TOOLING

### Any Language or Tool

### Java Frameworks

### API Management, Streaming, and Messaging

### Continuous Integration & Delivery

## OBSERVABILITY & MANAGEMENT

- Logging Analytics
- Monitoring
- APM
- Cloud Advisor
- Operations Insights
- OS Management
- Logging
- Resource Manager
- Java Management

## OCI DATA + AI PLATFORM

### AI Services

### Machine Learning Services

### Data Services

**Data Movement**

Data Integration, GoldenGate

**Managed Open Source**

Big Data, Data Flow, OpenSearch, Blockchain

**Data Stores**

Object Storage, Autonomous Data Warehouse

**Data Management**

Autonomous Database, NoSQL, Exadata, MySQL Heatwave

**Data Definition & Discovery**

Data Catalog

## SECURITY & GOVERNANCE

- Identity & Access Mgmt
- Cloud Guard
- Security Zones
- DataSafe
- OCI Vault
- Auditing
- Bastions
- Threat Intelligence
- Threat Detector
- Container Image Scanning
- Vulnerability Scanning
- Certificates

## CORE INFRASTRUCTURE

- Compute GPU
- Compute CPU
- Compute Arm
- Operating Systems, Native VMware
- Container Engine for Kubernetes
- Container Instances
- Functions
- Storage
- Networking
- Service Mesh
- WAF/Load Balancer
- DNS





Use *any* technology, dev tool,  
or *open source* solution

# Use *any* technology, dev tool, or open-source solution OCI's is open and flexible, always

## Managed services

Based on upstream open source



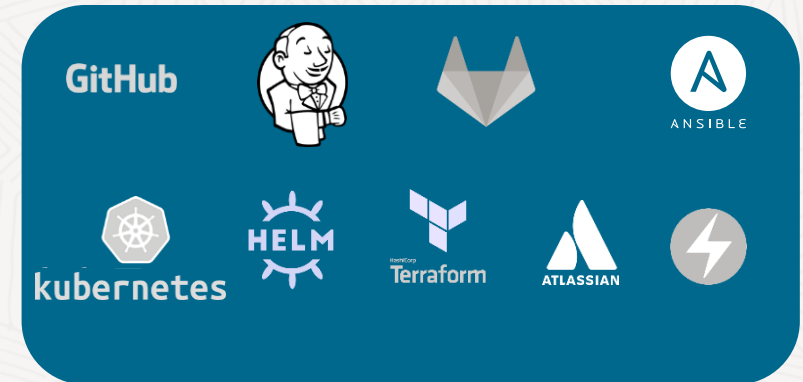
## Deploy any tool or service

Seamless Operations & Low TCO



## Native integrations

With the development tools you use



## Communities we contribute to



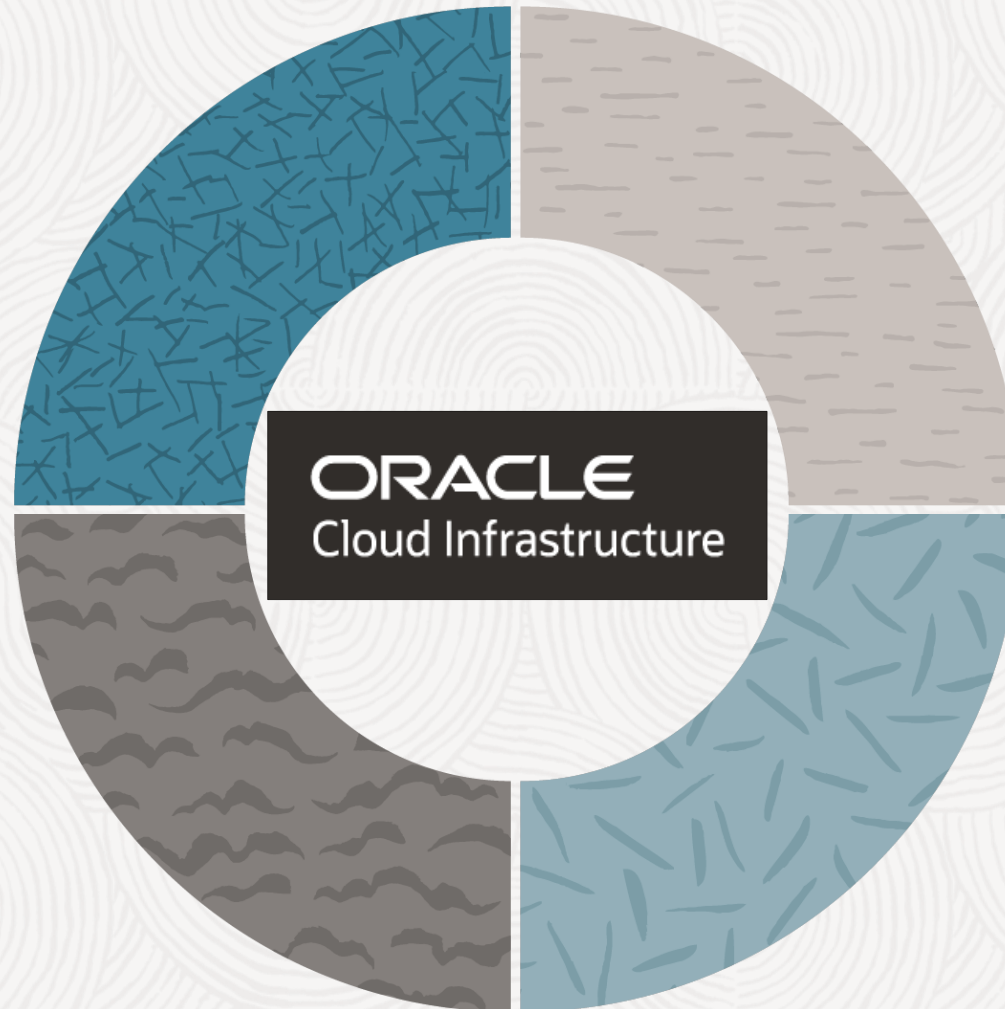
# Run everything, everywhere with OCI's distributed cloud

## Multicloud

Our products work with your other providers

## Public cloud

Access OCI cloud services from 40 global regions



## Hybrid cloud

We bring cloud services to you

## Dedicated cloud

A cloud just for you  
(DRCC+ Alloy)

# Application development on Oracle

1

Build & extend  
enterprise applications

2

Build cloud native  
applications

3

Build next-generation,  
AI-powered  
applications

We will meet you where you are and enable you to run  
great apps, anywhere.

1

# Build **and** Extend Enterprise Applications

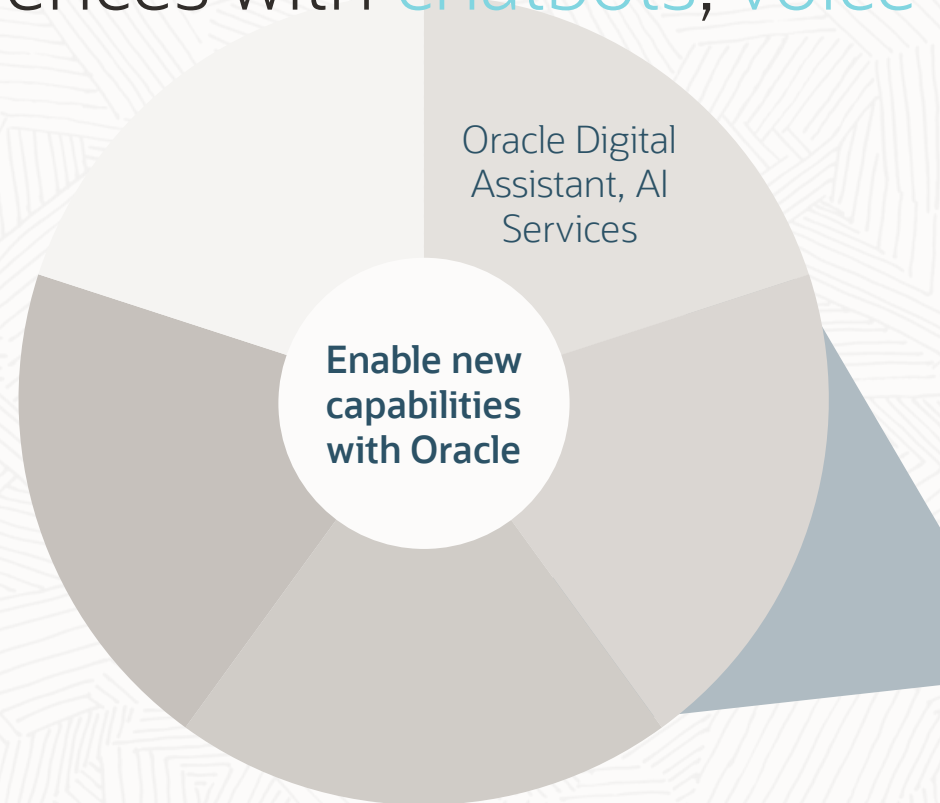
What percentage of critical enterprise applications do you think still reside on premise?

# 80%

Majority of enterprise applications  
still reside on premises.

# Extend your enterprise applications

Improve end customer experiences with **chatbots, voice interfaces, intuitive search**



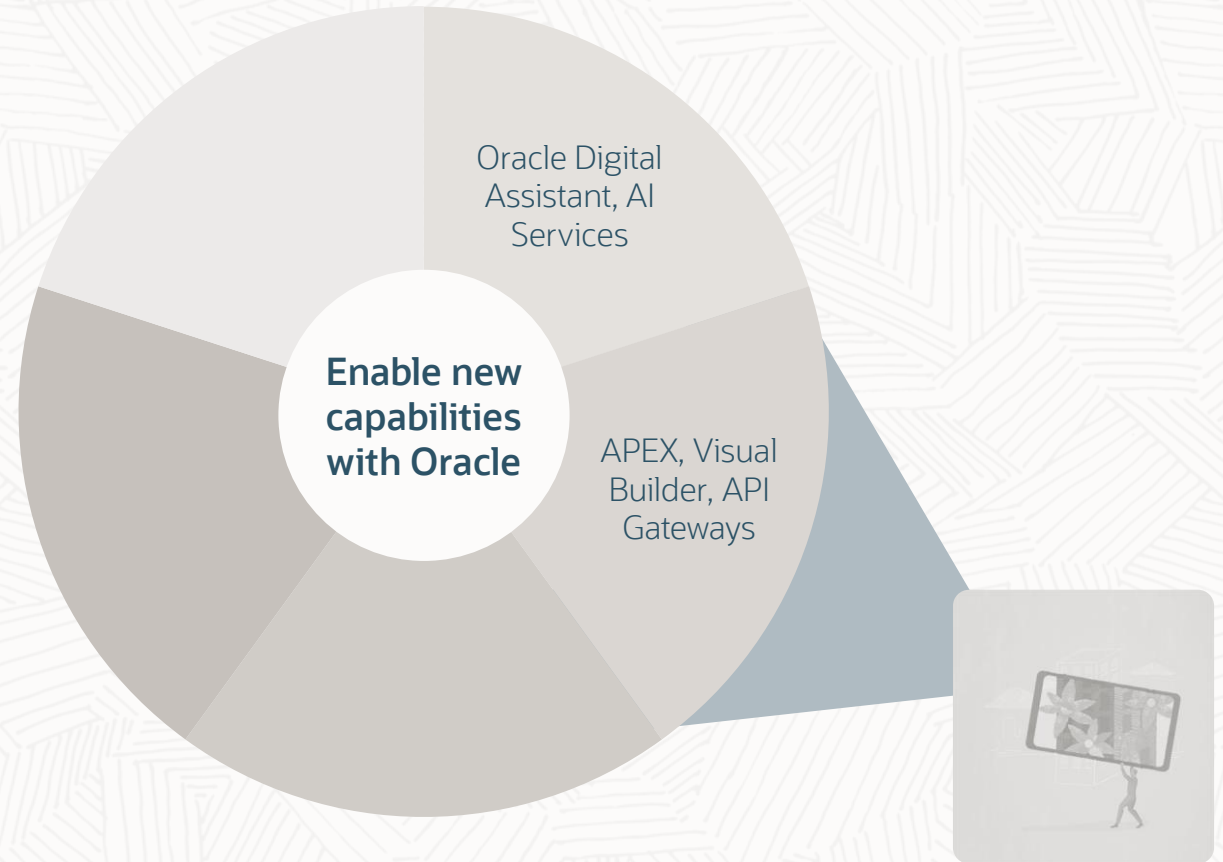
Applications can run on-premise or in OCI





# Extend your enterprise applications

Reach new audiences by creating **new application interfaces**, **mobile twins**, and dashboards

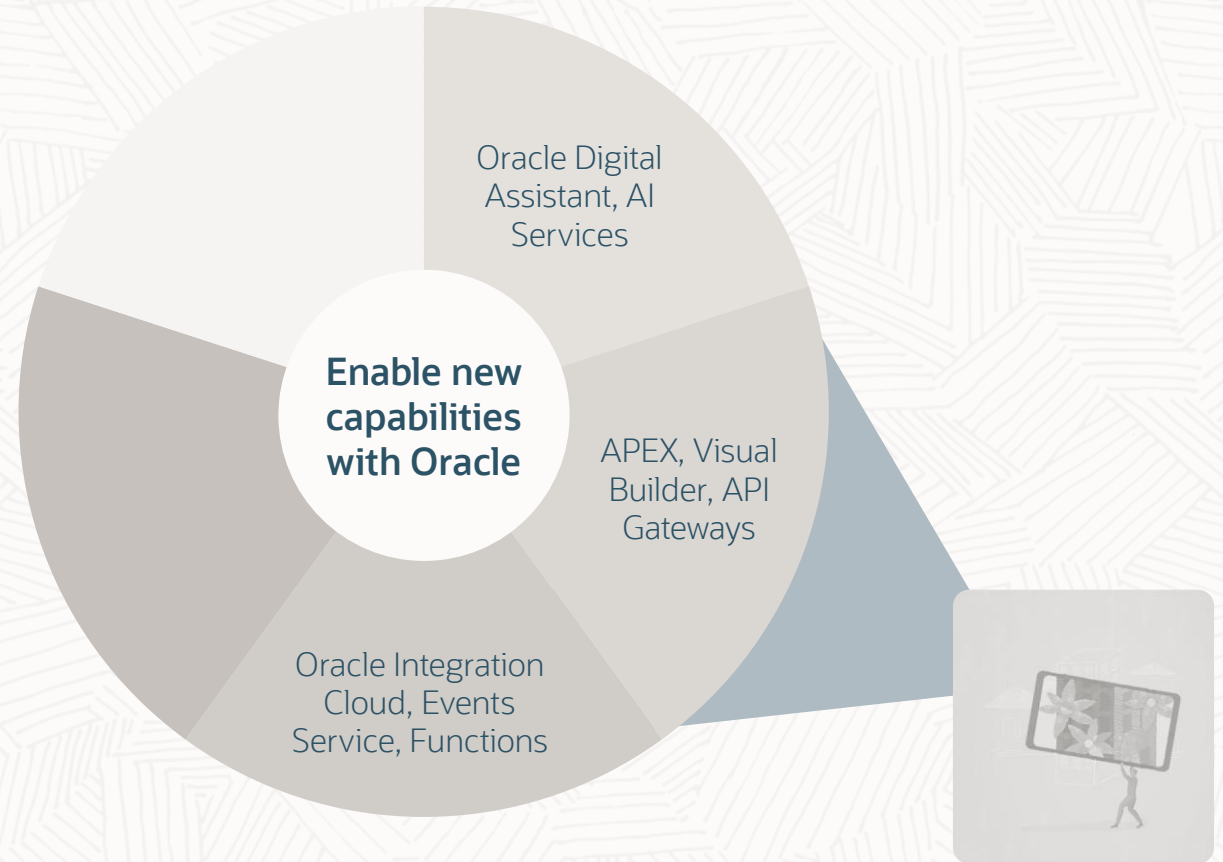


Applications can run on-premise or in OCI



# Extend your enterprise applications

Build connected experiences  
between your enterprise  
applications & SaaS  
applications

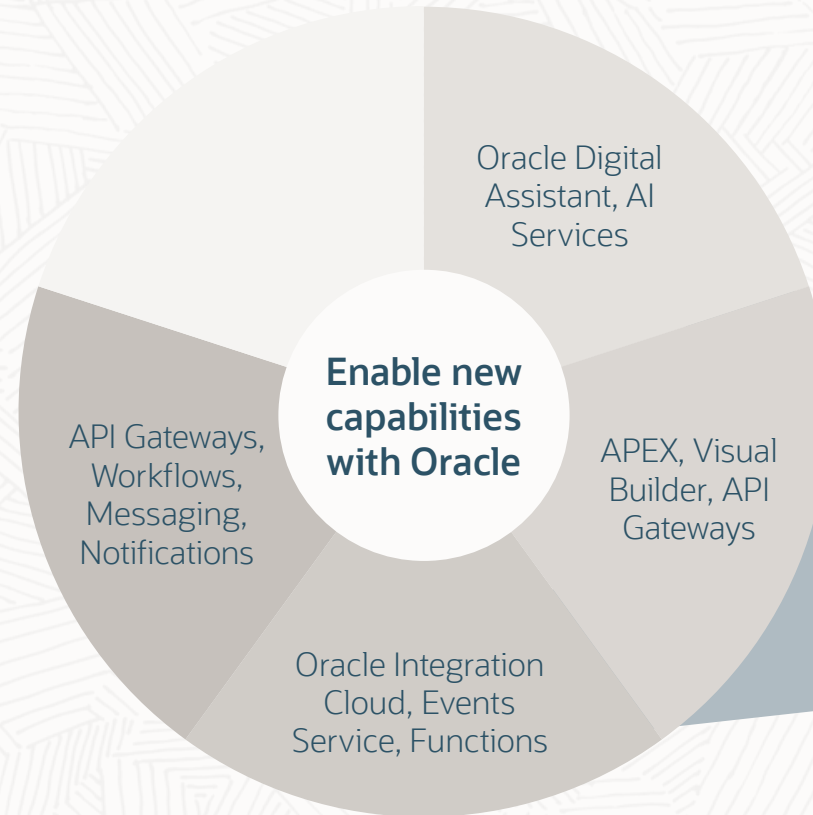


Applications can run  
on-premise or in OCI



# Extend your enterprise applications

Create more intelligent customer experiences with added **personalization, prediction and analytics**

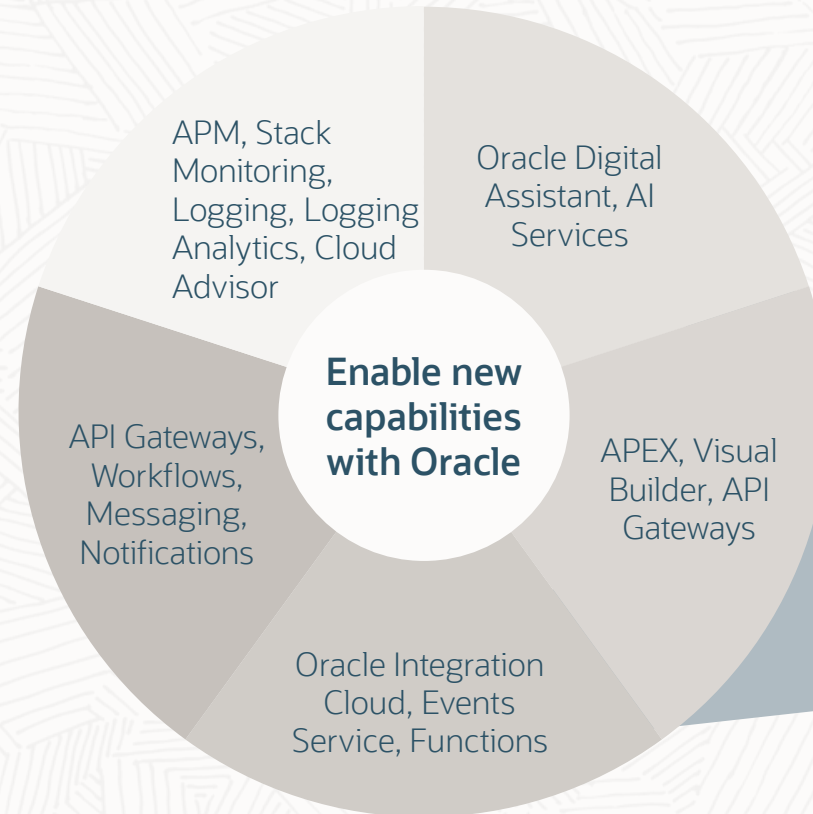


Applications can run on-premise or in OCI



# Extend your enterprise applications

Converge your operation centers to drive **better customer support** experiences



Applications can run on-premise or in OCI



2

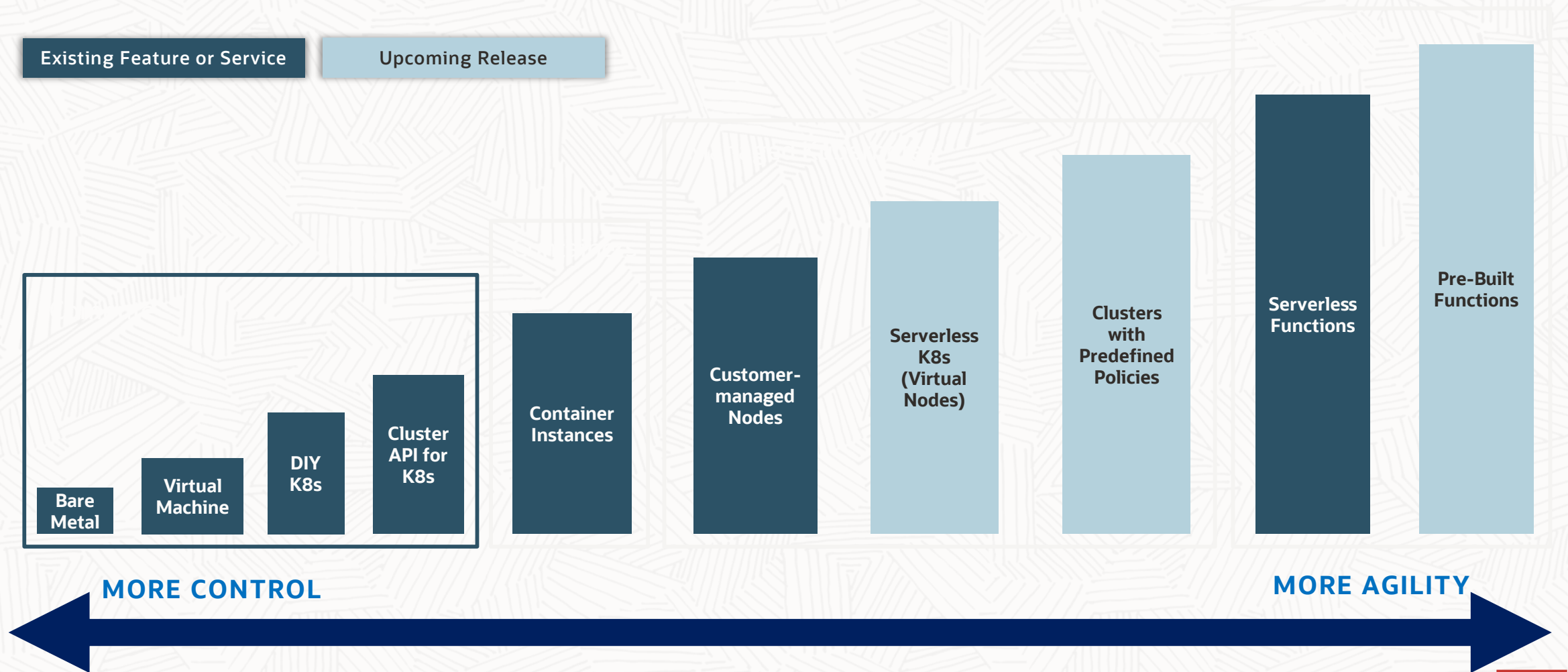
# Build Cloud Native

How many new **cloud  
native applications**  
launched by the end of  
2023?

# >500 million

New cloud native applications  
will be launched by the end of 2023

# Choose the right infrastructure strategy for your business







**ANNOUNCING**

**Coming soon!**

# Serverless Kubernetes with OKE Virtual Nodes

We securely manage all your Kubernetes infrastructure,  
so you don't have to!





**NEW !**

**Available since December 2022 !**

# Container Instances

Securely deploy containers in seconds – no Kubernetes skills or infrastructure management required.

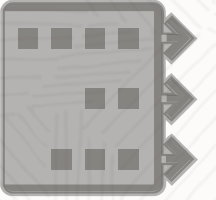


**ANNOUNCING**

**Coming soon!**

# Pre-Built Functions

A catalog of ready-to-use functions



**NEW !**

**Available now !**

# OCI Queue

Reliable, secure, STOMP compatible asynchronous messaging service

**ANNOUNCING**

Limited Availability



# OCI Workflows

Orchestrate and automate your business workflows using our drag-and-drop workflow design interface

How do you get started?

Use the technologies that your team already knows



The language  
of the enterprise



The most popular  
database in the world



# Java on GraalVM

Use existing skills to build high-performing microservices running natively in Kubernetes

**+30% improved application throughput**



MySQL™

# MySQL Heatwave

Rapidly build applications on top of your existing databases, using the only MySQL cloud service with a built-in, high-performance

3

# Build Next Generation, AI-Powered Apps

# OCI DATA + AI PLATFORM

## AI Services



OCI Digital Assistant



OCI Language



OCI Speech



OCI Vision



OCI Anomaly Detection



OCI Forecasting

## Machine Learning Services



OCI Data Science



Oracle Database ML,  
MySQL Heatwave ML



OCI Data Labeling

## Data Services



### Data Movement

Data Integration,  
GoldenGate



### Managed Open Source

Big Data, Data Flow,  
OpenSearch, Blockchain



### Data Stores

Object Storage,  
Relational Data



### Data Management

Autonomous Database, NoSQL,  
Exadata, MySQL Heatwave



### Data Definition & Discovery

Data Catalog

# Everything

Oracle's Complete cloud platform for developers

**APPLICATION DEVELOPMENT SERVICES + TOOLING**

- Any Language or Tool:** Python, Ruby, JavaScript, .NET, C++, PHP, Swift, Code Editor, APEX, Visual Builder.
- Java Frameworks:** Java, GraalVM, MicroBuilder, helidon.io.
- API Management, Streaming, and Messaging:** Streaming, API Gateway, Events, Workflow, Service Connector Hub, API Service, Integration, Queue, Notifications.
- Continuous Integration & Delivery:** GitHub, GitLab, Code Repository, Artifact Repository, Build/Deployment Pipelines, Registry.

**OCI DATA + AI PLATFORM**

- AI Services:** OCI Digital Assistant, OCI Language, OCI Speech, OCI Vision, OCI Anomaly Detection, OCI Forecasting.
- Machine Learning Services:** OCI Data Science, Oracle Database ML, MySQL, Heatwave ML, OCI Data Labeling.
- Data Services:** Data Movement (Data Integration, GoldenGate), Managed Open Source (Big Data, Data Flow, OpenSearch, Blockchain), Data Stores (Object Storage, Relational Data), Data Management (Autonomous Database, NoSQL, Exadata, MySQL, Heatwave), Data Definition & Discovery (Data Catalog).

**CORE INFRASTRUCTURE**

- Compute GPU, Compute CPU, Compute Arm, Operating Systems, Native VMware, Container Engine for Kubernetes, Container Instances, Functions, Storage, Networking, Service Mesh, WAF/Load Balancer, DNS.

**OBSERVABILITY & MANAGEMENT**

- Logging Analytics, Monitoring, APM, Cloud Advisor, Operations Insights, OS Management, Logging, Resource Manager, Java Management.

**SECURITY & GOVERNANCE**

- Identity & Access Mgmt, Cloud Guard, Security Zones, DataSafe, OCI Vault, Auditing, Bastions, Threat Intelligence, Threat Detector, Container Image Scanning, Vulnerability Scanning, Certificates.



# Everywhere

A distributed cloud

## Multicloud

Our products work with your other providers

## Hybrid cloud

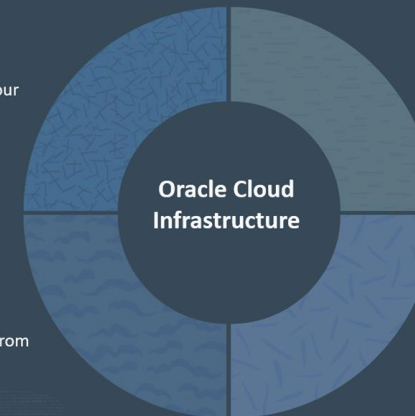
We bring cloud services to you

## Public cloud

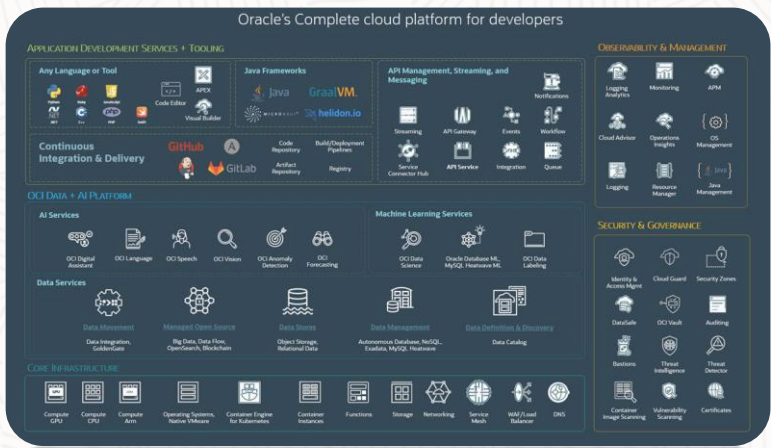
Access OCI cloud services from 40+ global regions

## Dedicated cloud

A cloud just for you



Oracle's Complete cloud platform for developers



The screenshot displays a comprehensive grid of Oracle Cloud services categorized into several functional areas:

- APPLICATION DEVELOPMENT SERVICES + TOOLING:** Includes 'Any Language or Tool' (with icons for IDEs, code editors, and build tools), 'Java Frameworks' (Java, GraalVM, Helidon.io), 'API Management, Streaming, and Messaging' (API Gateway, Events, Integration, Queue), and 'Continuous Integration & Delivery' (GitHub, GitLab, Jenkins, Artifactory, Registry).
- OCI DATA + AI PLATFORM:** Features 'AI Services' (OCI Digital Assistant, OCI Language, OCI Speech, OCI Vision, OCI Anomaly Detection, OCI Forecasting) and 'Machine Learning Services' (OCI Data Science, Oracle Database ML, OCI Data Labeling).
- DATA SERVICES:** Includes 'Data Management' (Data Integration, GoldenGate, Data Archival, Object Storage, Autonomous Database, NoSQL, Exadata, MySQL, TimesTen) and 'Data Catalog'.
- CORE INFRASTRUCTURE:** Lists services like Compute (GPU, CPU, ARM), Operating Systems (Native VMs), Container Engine for Kubernetes, Container Instances, Functions, Storage, Networking, Serverless, and IaaS (Load Balancing, DNS).
- OBSERVABILITY & MANAGEMENT:** Covers 'Logging Analytics', 'Monitoring', 'APM', 'Cloud Advisor', 'Operations Insights', 'OS Management', 'Logging', 'Resource Manager', and 'Java Management'.
- SECURITY & GOVERNANCE:** Includes 'Identity & Access Management', 'Cloud Guard', 'Security Zones', 'DataSafe', 'OCI Vault', 'Auditing', 'Systems', 'Threat Intelligence', 'Threat Detector', 'Container Image Scanning', 'Vulnerability Scanning', and 'Certificates'.



# All at Once



Thank you

