# Oracle GoldenGate for OCI Marketplace

A Customer Managed Cloud Solution

**Oracle Development Summer 2019** 



### Safe Harbor Statement

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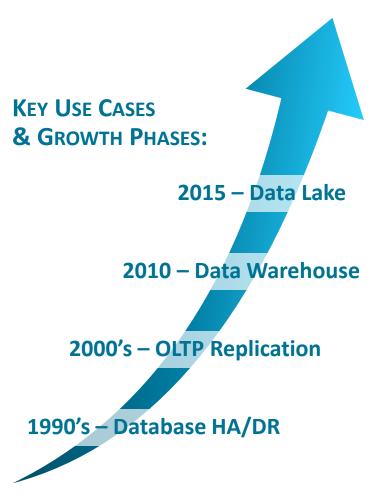


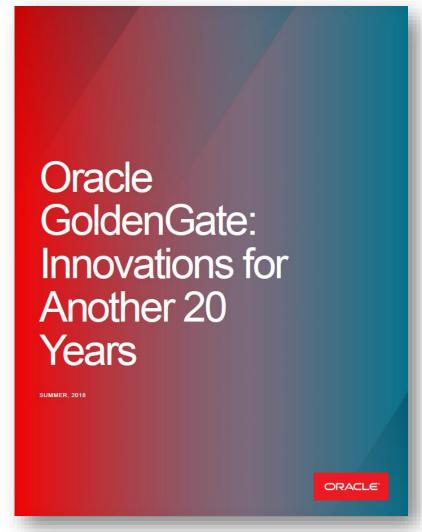
# Program Agenda

- GoldenGate Background
- GoldenGate for OCI Marketplace Overview
- Details on Features, Functions and Capabilities
- Step-by-Step Walkthrough



### Oracle GoldenGate | 20+ Years of Innovation





#### 1000'S OF CUSTOMERS GLOBALLY























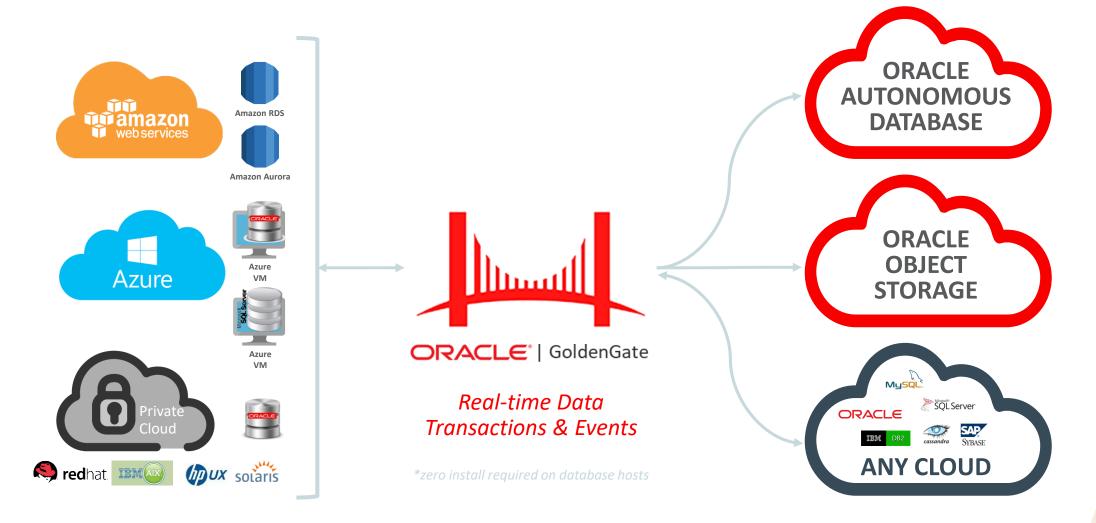






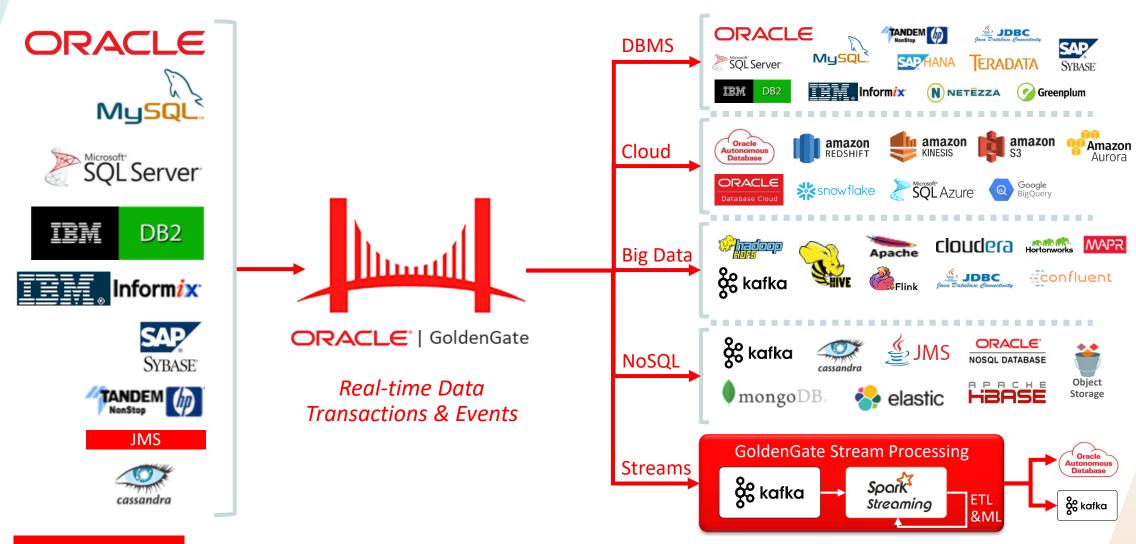


# Oracle GoldenGate | Multi-Cloud Capable





# Oracle GoldenGate | Platform for the Whole Enterprise





## Oracle GoldenGate | Key Use Cases

#### Database HA/DR

Active-Active, Multi-Master, Zero-Downtime, DB Migrations



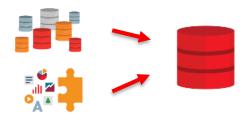
#### **OLTP Replication**

Replicate transactions, data & events across OLTP databases



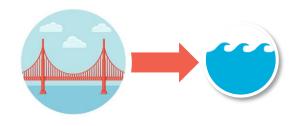
#### **Data Warehouse Ingest**

Load and stage data into Data Warehouse tables



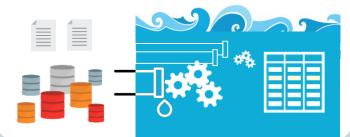
#### **Data Lake Ingest**

Best-in-class streaming data ingestion for all data lakes



#### **Data Pipelines**

Transform and process any data as it in arrives in the Stream



#### **Stream Analytics**

Apply machine learning, geospatial and advanced rules





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# Announcing: GoldenGate on Oracle Cloud Marketplace

Available in OCI global data centers

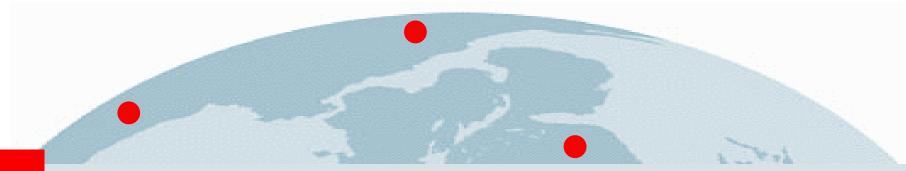
https://www.oracle.com/cloud/data-regions.html



Ideal for replicating data to OCI cloud

Super-fast cloud infrastructure

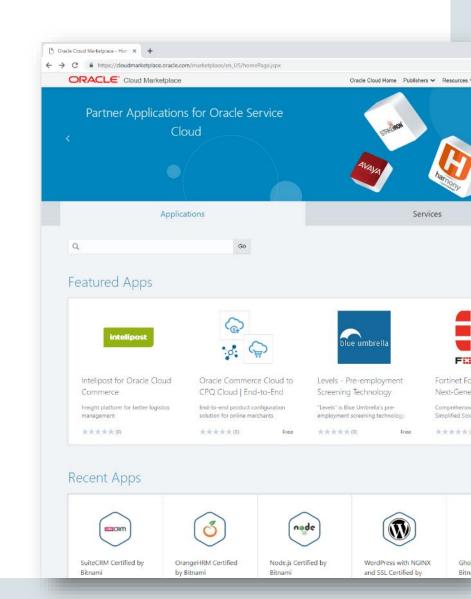
Works with on-prem and 3<sup>rd</sup> party clouds





### About OCI Marketplace

- Newest data centers, aggressive build schedule
- High speed Compute, Network and Storage
- Provisioning automation provided via Oracle Terraform scripting
- Will work with Oracle Database Cloud, including Autonomous Database, and any Applications hosted on OCI Compute
- Robust security, standard OCI tenancy and VPN options to support any on-premise or non-Oracle cloud integrations

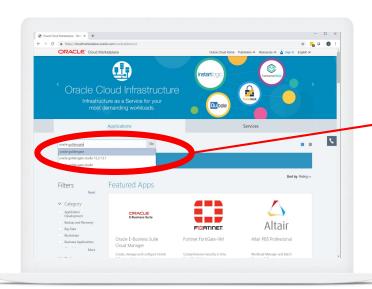


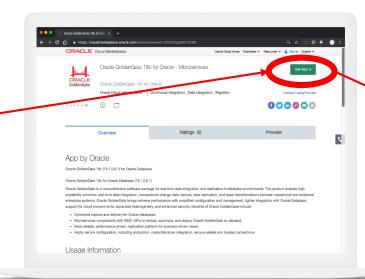
# GoldenGate on OCI Marketplace – 3 Steps to Productivity

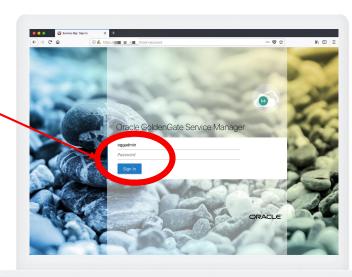
Step 1: Search OCI Marketplace

Step 2: Provision GoldenGate on OCI

Step 3: Run GG Web Apps







Navigate to <a href="https://cloudmarketplace.oracle.com/">https://cloudmarketplace.oracle.com/</a> and search for "Oracle GoldenGate"

Choose "Launch App" and click through ~4 pages of forms (existing OCI account is required) Access GoldenGate Microservices (Web Apps) from public IP Address given via OCI confirmation page



# GoldenGate Listings on OCI Marketplace

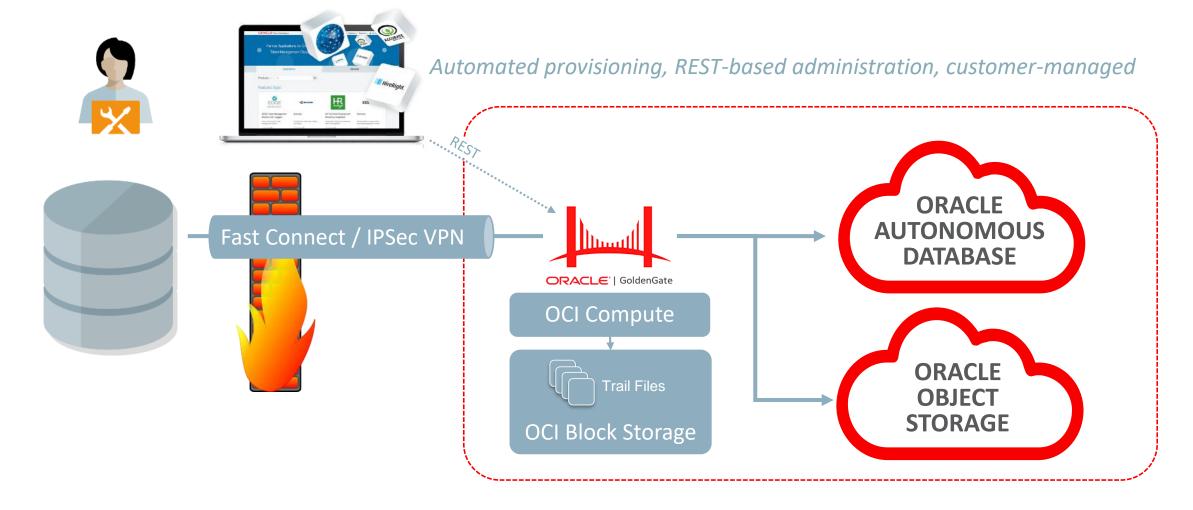
✓ GoldenGate 19.1 Microservices
Architecture for Oracle DB

### Coming Soon:

- ✓ GoldenGate 19.1 Classic for Oracle DB
- ✓ GoldenGate 19.1 for Non-Oracle Databases
- ✓ GoldenGate 19.1 for Big Data
- ✓ GoldenGate 19.1 for Mainframe (DB2/z)

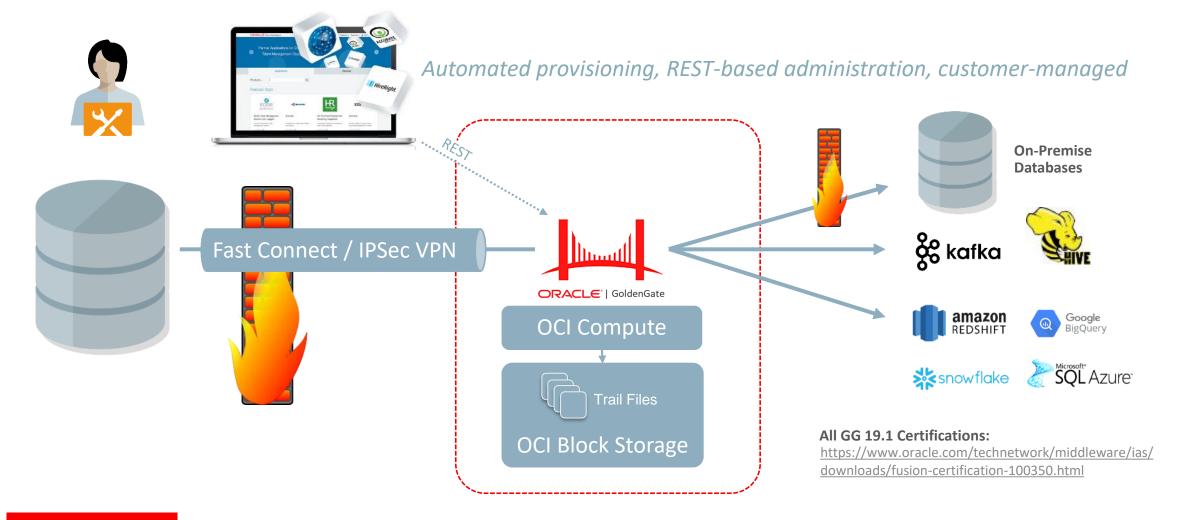


# GoldenGate Topology for OCI Marketplace

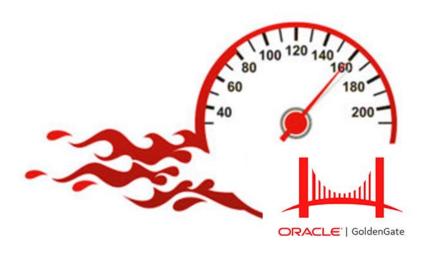




# Works With On-Premise and 3<sup>rd</sup> Party Clouds



# High Performance



- Remote integrated capture is network-optimized so that any network faster than 100ms latency performs similar to local extracts
  - Fast Connect or standard IPSec VPN to Oracle Cloud data centers can yield same performance as local installs of GoldenGate
  - Can be used for on-prem to on-prem replications! (network routing via OCI)
- No other vendor can compare on Oracle Database replication performance
  - Purpose built APIs for extract and apply
  - Integrated (same DB code base) and highly parallel



# GoldenGate on OCI Marketplace | Commercials

- √ 30 day free Trial
- ✓ Customer brings their own License (Term, Processor, Named User, ULA, etc)
- ✓ On Prem as Subscription (OpEx Model)



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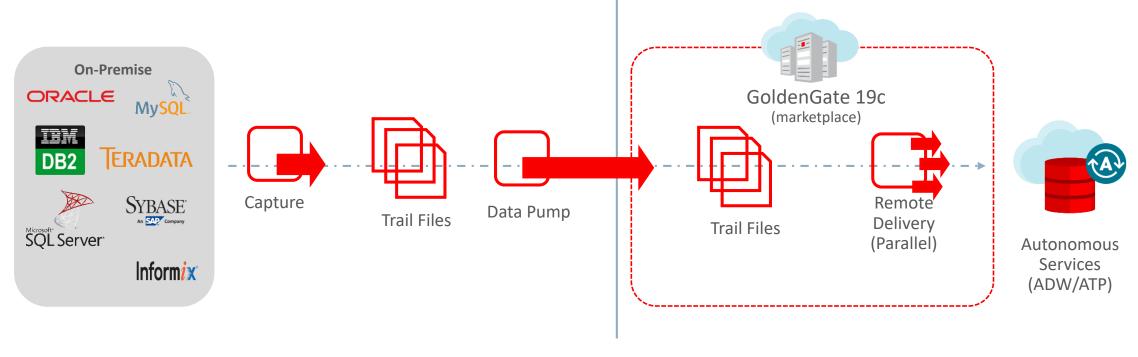
- ➤ Pre-configured Virtual Machine
  - ✓ Simple provisioning in OCI Using TerraForm Scripts
- ➤ Capturing from On-Premises Oracle Databases
  - ✓ Capture from Oracle Databases from 11.2.0.4+
  - ✓ Support DDL Replication
- ➤ High Performance Delivering to Cloud Based Services
  - ✓ Delivery to Autonomous Resources and DBaaS
  - ✓ Integrated Delivery with Parallelism Support
  - ✓ Remote Delivery via SQL\*Net EZConnect & TNS Names

#### ➤ Specification

- ✓ Shapes
  - VM.Standard2.4 (4 CPUs, 60GB RAM)
  - VM.Standard2.8 (8 CPUs, 120GB RAM)
  - VM.Standard2.16 (16 CPUs, 128GB RAM)
  - VM.Standard2.24 (24 CPUs, 320GB RAM)
- ✓ Latest Software
  - Linux 7.6 or later
  - GoldenGate 19c (19.1.0.0.1)



Hybrid Architecture: On-Premise to Autonomous



- ✓ May run older GoldenGate versions from on-premise
- ✓ Simply link On-Premise sources to Autonomous Services



### Networking

- ✓ Supports Oracle Native network protocols
  - TNS Names
  - Easy Connect
  - Easy Connect Plus
- ✓ Virtual Cloud Networks (VCN)
  - ✓ Create a new VCN upon compute node creation
  - ✓ Use existing VCN established in compartment
- ✓ On-Premise to Cloud
  - ✓ VPN Connect (IPSec) for more information: <a href="here">here</a>
  - ✓ OCI FastConnect for more information: <a href="here">here</a>



OCI Data Centers and Regions

### ✓ Regions

- North America
  - Ashburn, VA
  - Phoenix, AZ
  - Toronto, Canada
- Europe
  - London, United Kingdom
  - Frankfurt, Germany
- Asia Pacific
  - Tokyo, Japan
  - Seoul, South Korea
  - Mumbai, India (summer 2019)



https://www.oracle.com/cloud/data-regions.html

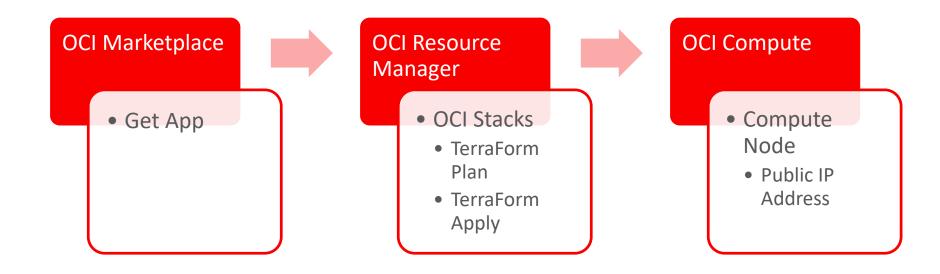
OCI & GoldenGate Security

- ✓ Full isolation from other tenants, and same tenant workloads
   (OCI)
- ✓ Data at Rest Encryption protect customer data (OCI)
- ✓ Comprehensive log data that allows you to audit and monitor actions on your resources (OCI)
- ✓ Role based security framework (OGG)
- ✓ Secure Socket Layer (SSL)/HTTPs based replication (OGG)
- ✓ Centralized Key Management (OGG)



### Simple Provisioning

- ✓ Provision in five steps or less
  - √ Through OCI Marketplace
  - ✓ TerraForm Stack



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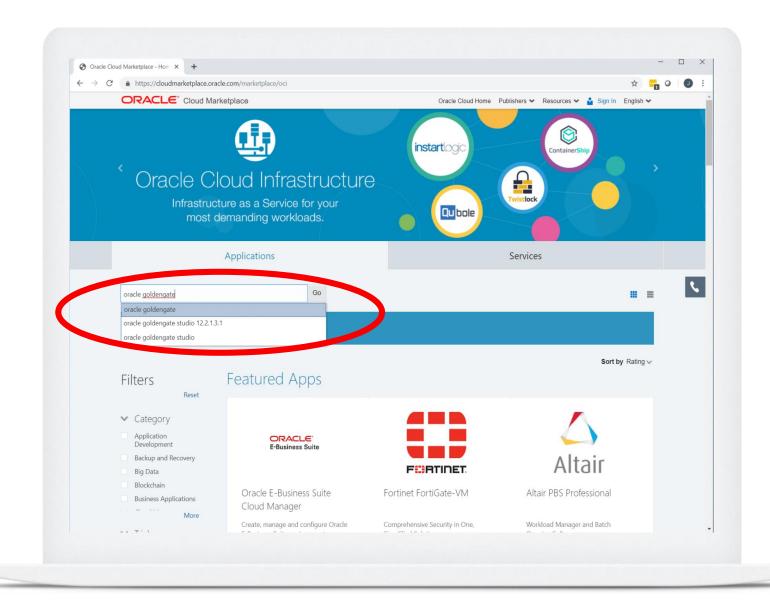
#### Step #1:

Access OCI Marketplace

https://cloudmarketplace.oracle.com/marketplace/oci

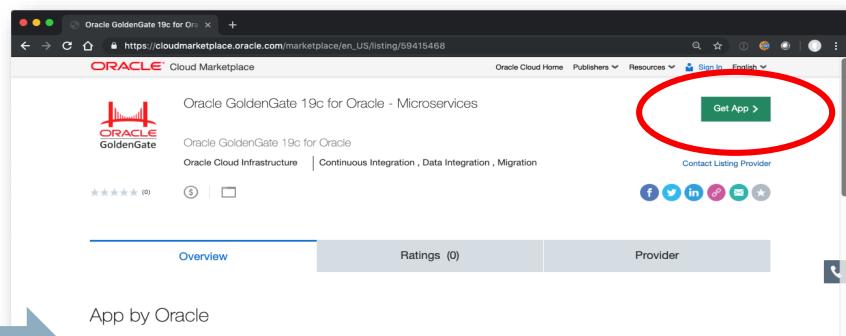
Search for:

Oracle GoldenGate



- Click in to listing
- Choose "Get App"





Oracle GoldenGate 19c (19.1.0.0.1) for Oracle Database

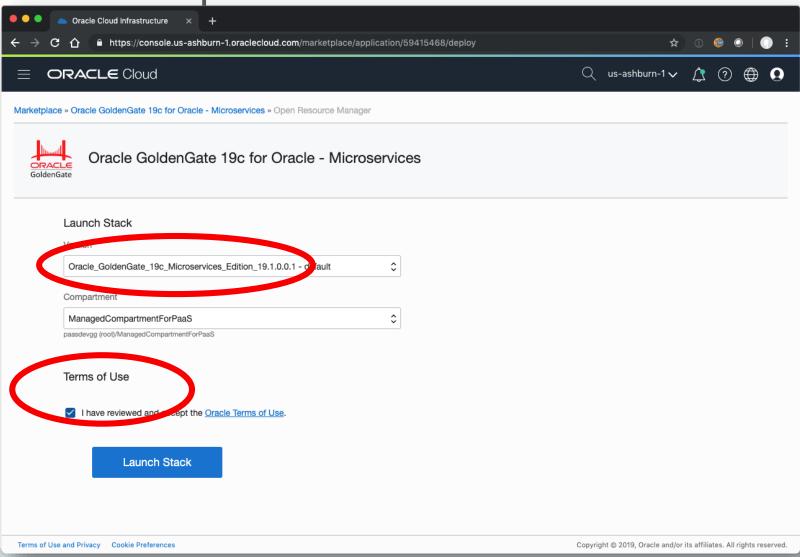
Oracle GoldenGate 19c for Oracle Database (19.1.0.0.1)

Oracle GoldenGate is a comprehensive software package for real-time data integration and replication in database environments. The product enables high availability solutions, real-time data integration, transactional change data capture, data replication, and basic transformations between operational and analytical enterprise systems. Oracle GoldenGate brings extreme performance with simplified configuration and management, tighter integration with Oracle Database, support for cloud environments, expanded heterogeneity, and enhanced security. Benefits of Oracle GoldenGate include:

- Optimized capture and delivery for Oracle databases
- · Microservices components with REST APIs to embed, automate, and deploy Oracle GoldenGate on demand
- · Most reliable, performance driven, replication platform for business driven needs
- · Highly secure configuration, including encryption, credential store integration, secure wallets and trusted connections

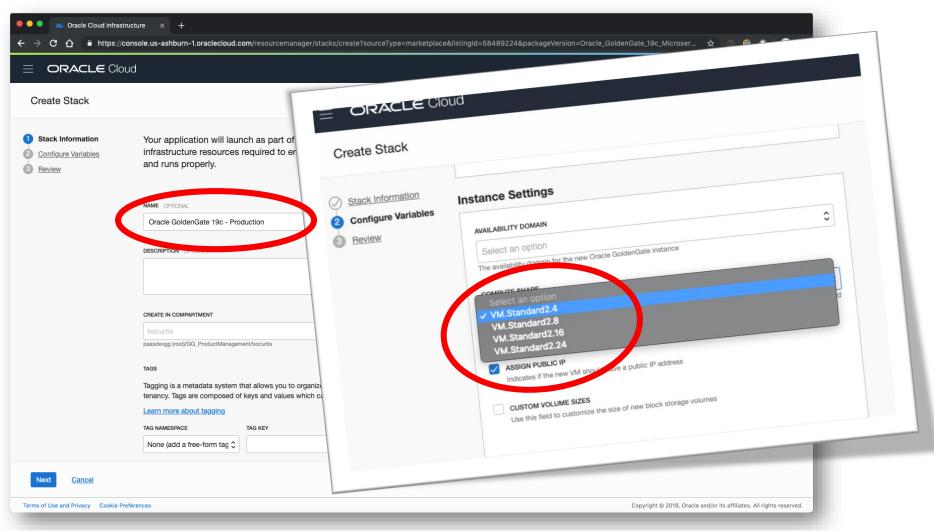
Usage Information

- Select GoldenGate Version
  - Microservices
  - Classic
- Provide Compartment to build in
- Accept Terms of Use
- > Launch Stack



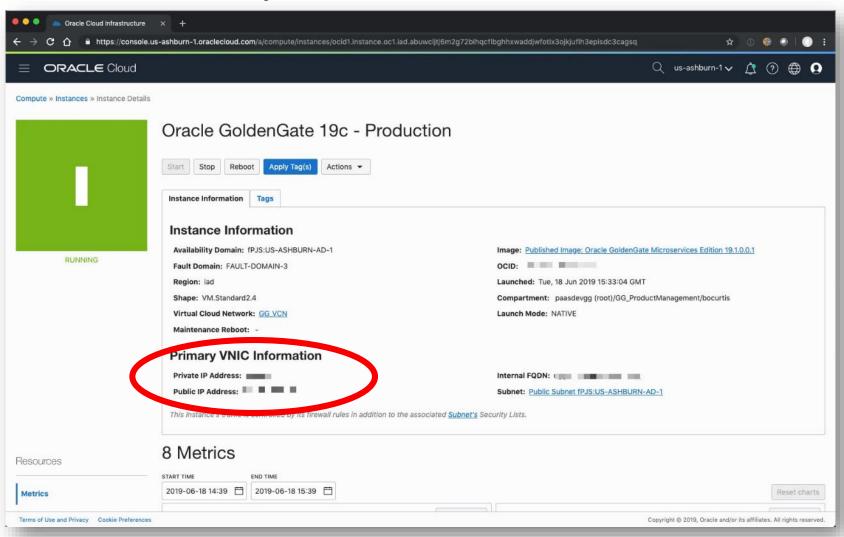


- Provide Stack Information
- Configure Compute Variables
- Review & Create

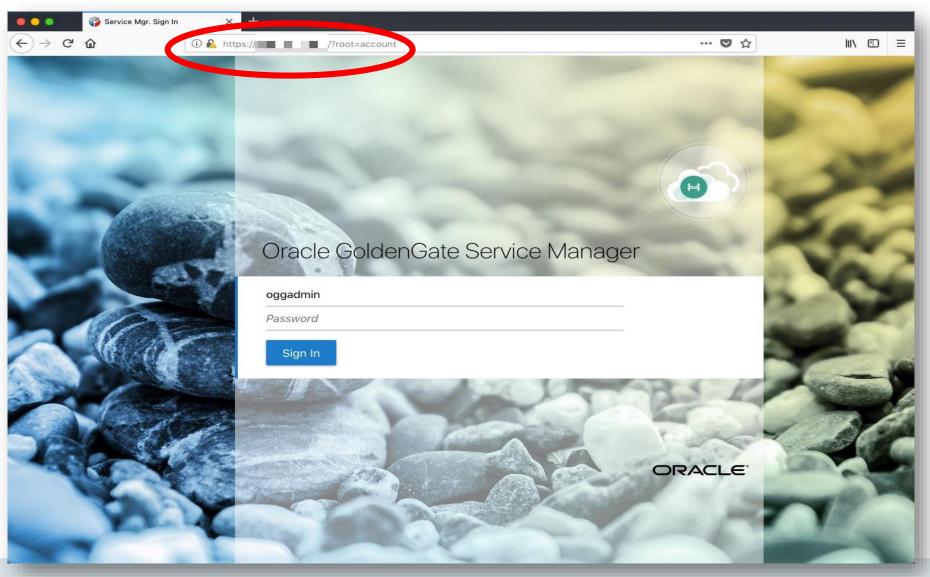




- Compute & GoldenGate Builds
- Compute node is accessible via Public IP Address



- Accessed via Public IP Address
- Simple Web User Interface
- Best PracticesFollowed(microservices)



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