Introduction to Oracle Database Cloud Service

Objectives

- After completing this lesson, you should be able to:
  - Explain the Oracle Cloud and Database Cloud offerings
  - Describe the architecture and features of Oracle Database Cloud Service

Oracle Cloud: Overview

- **Oracle Cloud Software as a Service (SaaS)**
  - Provides best-of-breed cloud software in a complete, secure, and connected cloud suite
  - Comes embedded with modern best practice processes and built-in social, mobile, and analytic capabilities
- **Oracle Cloud Platform as a Service (PaaS)**
  - Enables enterprise IT and independent software vendor (ISV) developers to rapidly build and deploy rich applications
  - Uses an enterprise-grade cloud platform based on the industry's best database and application server
- **Oracle Cloud Infrastructure as a Service (IaaS)**
  - Is a set of core infrastructure capabilities such as elastic compute and storage
  - Provides customers with the ability to run any workload in the cloud

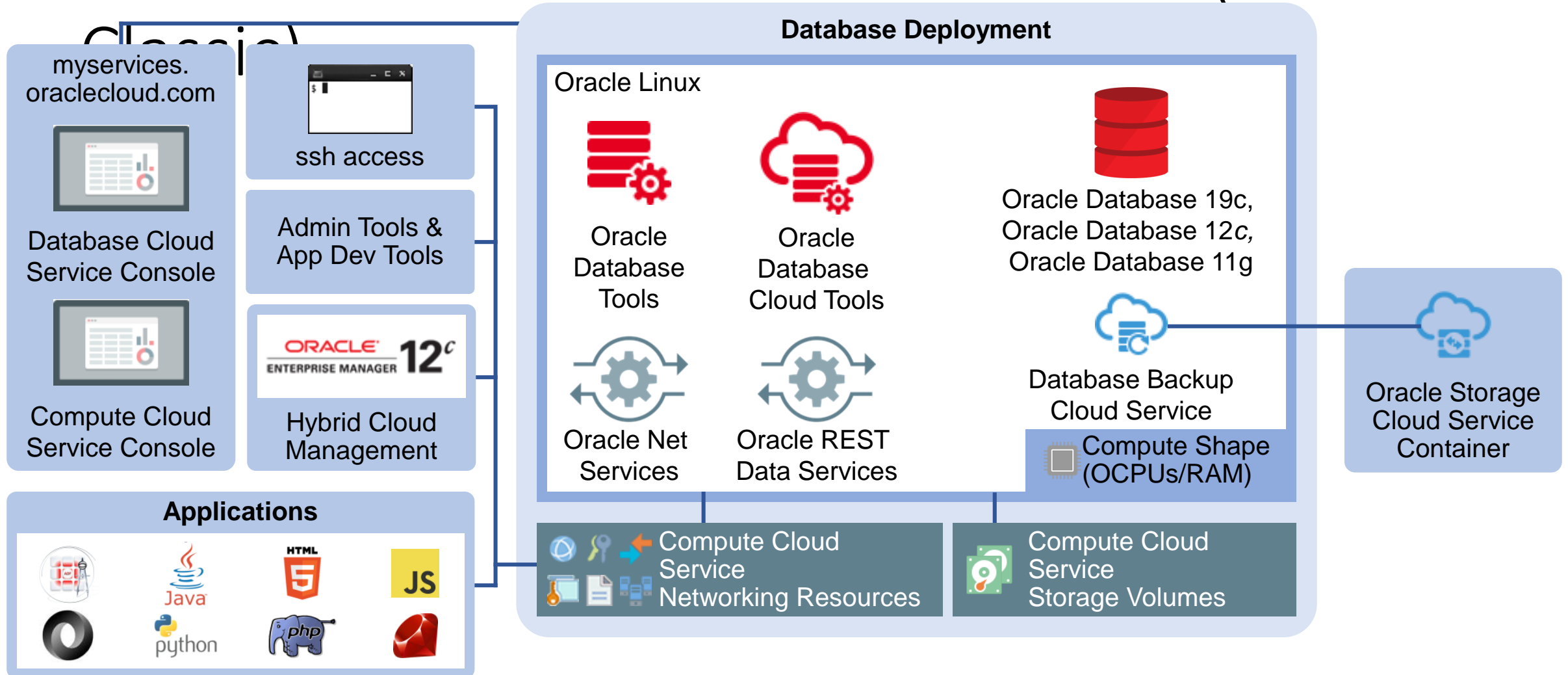# Database Cloud Service Offerings

- Oracle Database Cloud Service
  - Offers elastic database services for application development, testing, and production deployment
  - Has an easy-to-use web console user interface and RESTful API to provision and administer Oracle Database on Oracle Compute Cloud
- Oracle Database Exadata Cloud Service
  - Includes all the benefits of Exadata performance
  - Offers 100% compatibility with existing business-critical applications and databases that are on premises
- Oracle Database Exadata Express Cloud Service—Managed
  - Provides a full Oracle Database experience for small- and medium-sized databases
  - Has service that is fully managed by Oracle
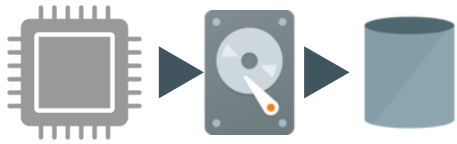
Infrastructure for Oracle Database Cloud Service

- **Oracle Cloud Infrastructure Classic (OCI Classic)**
  - Oracle's first-generation cloud infrastructure
  - Includes Compute Classic and Storage Classic
- **Oracle Cloud Infrastructure (OCI)**
  - Oracle's second-generation cloud infrastructure
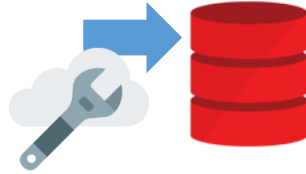 - Includes Compute and Storage

Database Cloud Service Architecture (OCI Classic)

Database Deployment

myservices.
oraclecloud.com

Database Cloud Service Console

Compute Cloud Service Console

ssh access

Admin Tools & App Dev Tools

ORACLE ENTERPRISE MANAGER 12c

Hybrid Cloud Management

Applications

Java
HTML5
JS
python
php
ruby

Oracle Linux

Oracle Database Tools

Oracle Database Cloud Tools

Oracle Database 19c,
Oracle Database 12c,
Oracle Database 11g

Oracle Net Services

Oracle REST Data Services

Database Backup Cloud Service

Compute Shape (OCPUs/RAM)

Compute Cloud Service Networking Resources

Compute Cloud Service Storage Volumes

Oracle Storage Cloud Service Container

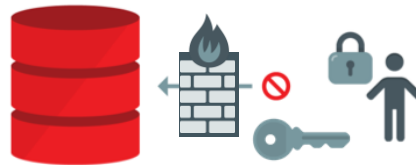# Features and Tooling

Simple Provisioning

Automated Patching

Automated Backups

Any Language

Advanced Security
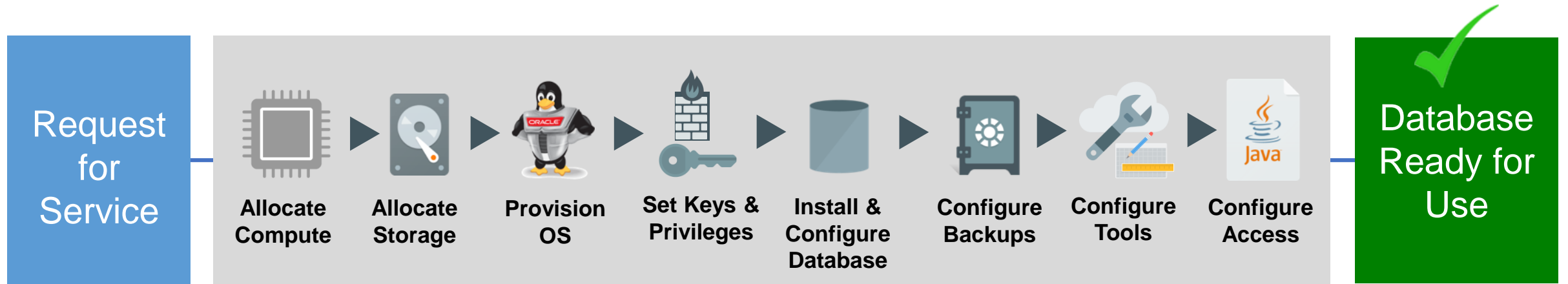
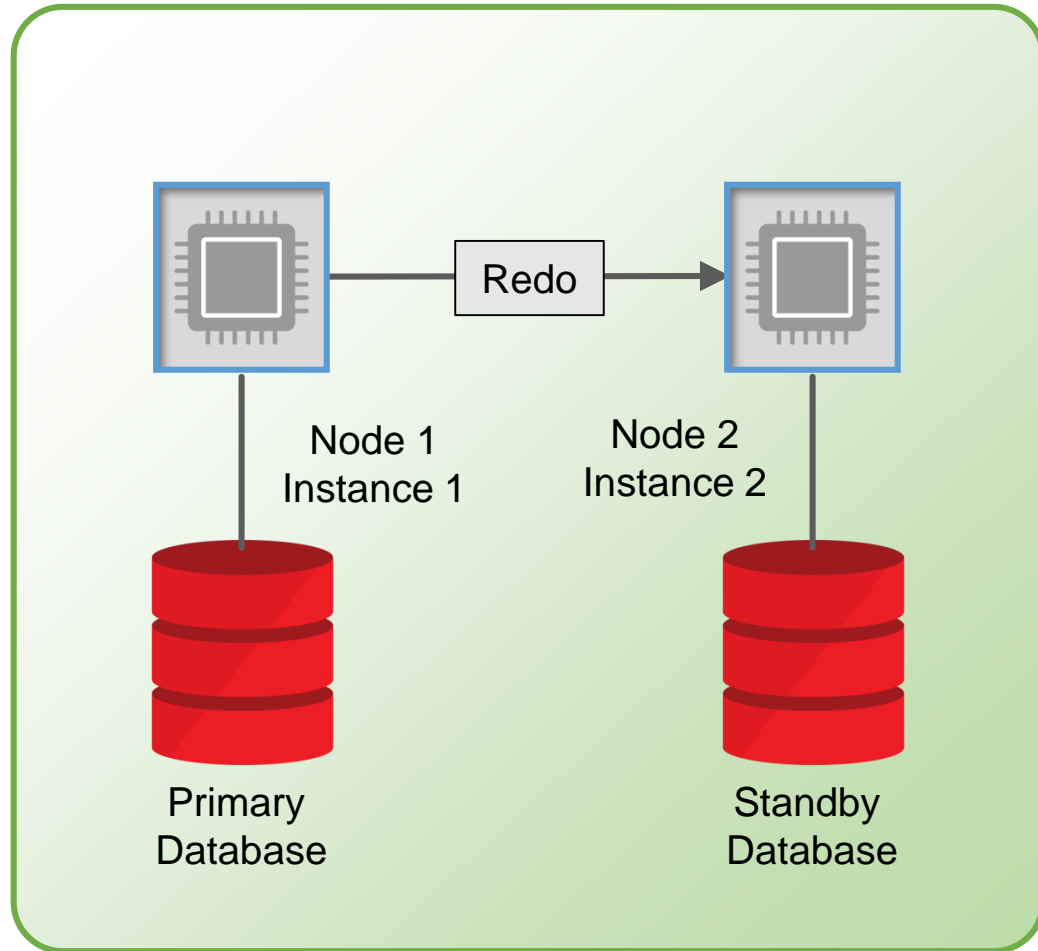
Local and Remote Management

Automated Database Provisioning

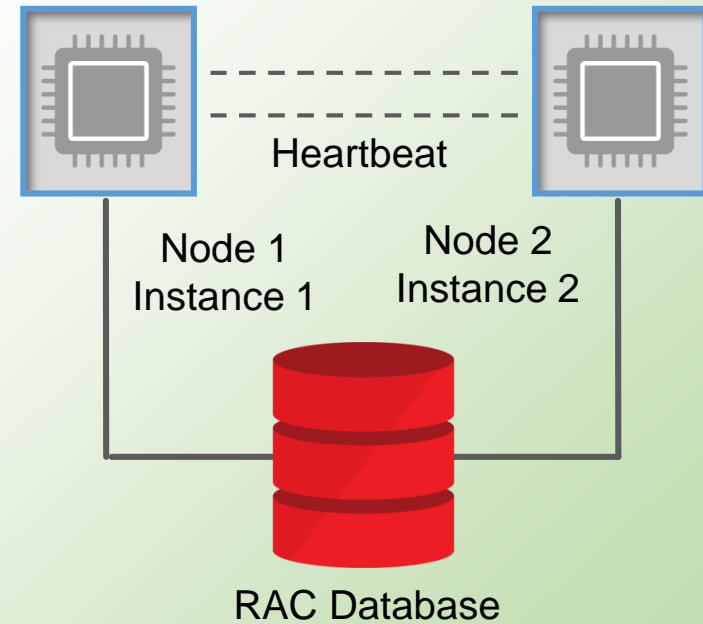| Request for Service	Allocate Compute	Allocate Storage	Provision OS	Set Keys & Privileges	Install & Configure Database	Configure Backups	Configure Tools	Configure Access	Database Ready for Use

Automated provisioning based on input to the Create Oracle Database Cloud Service Instance wizard or through REST APIs

Additional Database Configuration Options

Node 1
Instance 1

Redo

Node 2
Instance 2

Primary
Database

Standby
Database

- Oracle Real Application Clusters (Oracle RAC)

Heartbeat

Node 1
Instance 1

Node 2
Instance 2

RAC Database

Summary

- In this lesson, you should have learned how to:

    - Explain the Oracle Cloud and Database Cloud offerings
    - Describe the architecture and features of Oracle Database Cloud Service

Practice 3: Overview

- 3-1: Exploring Oracle Cloud