

ORACLE®

Oracle Database Cloud Service

Database as a Service in Oracle Public Cloud



September 2015

Safe Harbor Statement

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, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

A woman in a blue blazer is listening intently to a man in a grey suit who is gesturing with his hands. They are in an office setting with a laptop and a coffee cup on a table in the foreground. The background is a blurred office environment with large windows.

Oracle Database Cloud Service

Introduction

Broadest Choice

SaaS



CX



HCM



ERP



SCM



EPM



Social



Data

PaaS



Database



Database Backup



Java



Exadata



Big Data



Process



Business Intelligence



Mobile



Integration



Developer



Documents



Messaging

IaaS



Compute

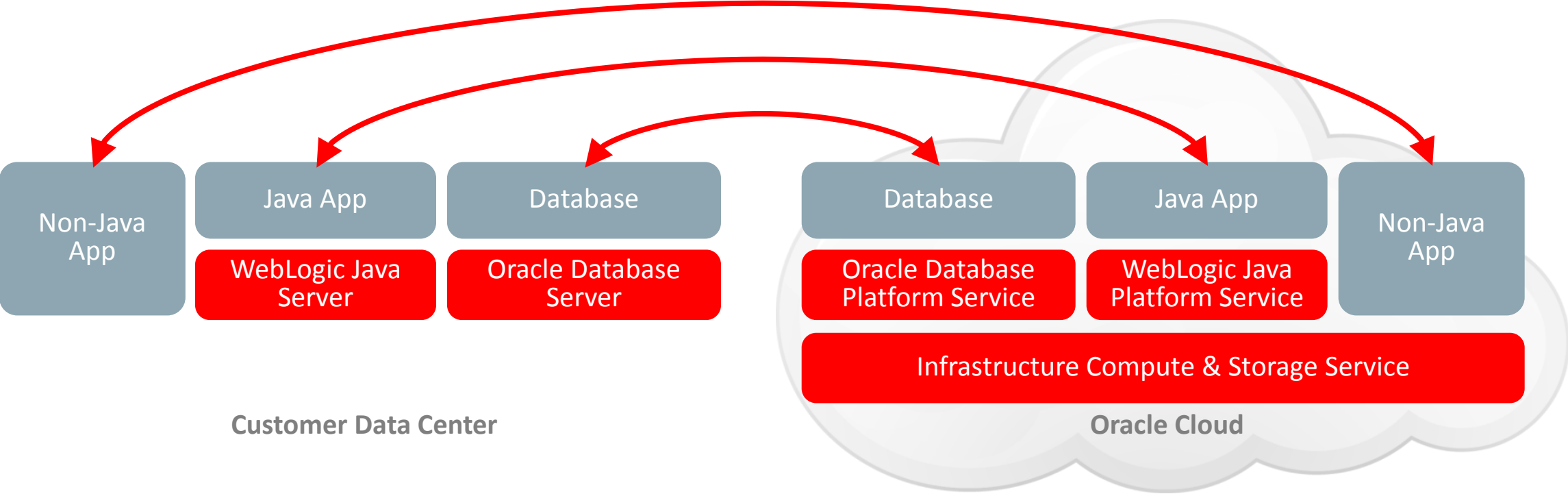


Storage

Unmatched deployment options

Move Oracle Database or Application to the Cloud

Move to Cloud – Move Back: No Code Changes!



Customers' Challenges With Databases

Business Problem

- Rising costs
- Inefficiency, lack of agility & elisticity
- Increasing risks

Value Proposition

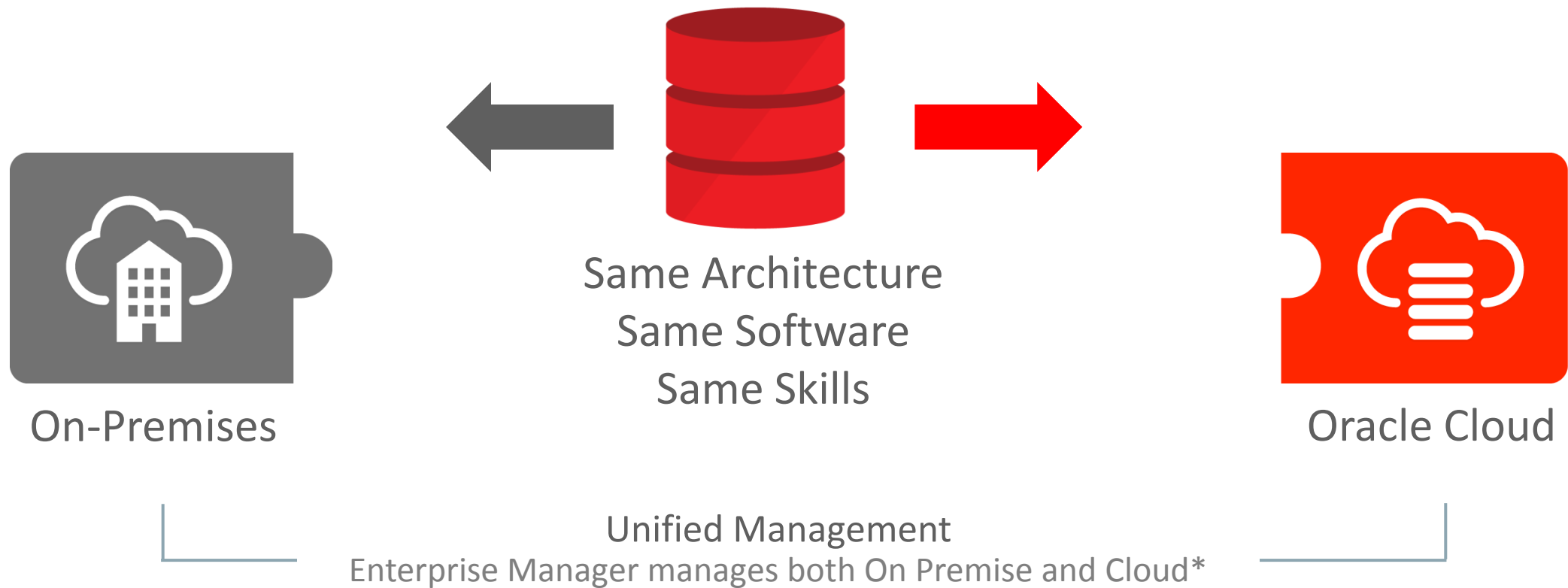
- Host Database and Applications in the Cloud
- Evaluate new DB features, drive DB 12c adoption
- Move test/dev environment to the Cloud
- Protect data with Backup Cloud Service

Business Benefits

- Lower cost of infrastructure purchase & setup
- Reduced operational cost thanks to elastic subscription model
- Scalable compute & storage – no HW planning headache
- No need to procure on-premise environment
- Adoption of the newest technologies (12c features)
- Reduced provisioning time to minutes (eg. 30min)
- Reduce on-premise server sprawl
- Familiar backup using simple standard RMAN commands
- Secure backup (3x mirrored) data encryption (with keys kept locally at client) in an off-premises location

Oracle Database Cloud

Full portability between on-premises and cloud



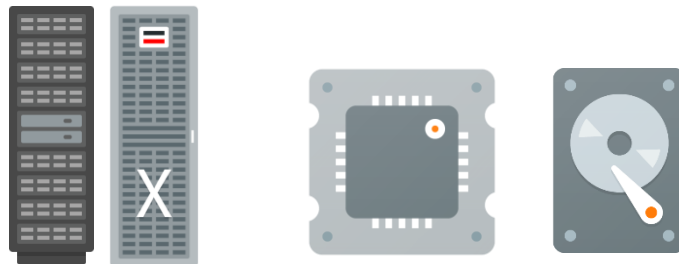
Oracle Database Cloud

Extend the enterprise data center to the cloud



On Premises

- ✓ Instantly gain access to infrastructure
- ✓ Elastic CPU and memory
- ✓ Elastic block and object storage
- ✓ Backup database to the cloud



Oracle Cloud

Oracle Database Cloud – Management Levels Overview

Virtual Image

- Database software ready for install
- Tenant has root privilege
- Does not provide automated orchestrations
- Only available on general purpose infrastructure



Automated

- Automated install, patch, upgrade, upsize/downsize, backup/restore, recovery, data guard configuration, TDE encryption, monitoring...
- Tenant has root privilege



Managed*

- Oracle monitors and is responsible for keeping the database available
- Oracle manages install, patch, upgrade, upsize/downsize, backup/restore, recovery
- Oracle maintains privileged user access, tenant controls data.



■ Greater Capabilities

* Planned for a future release.

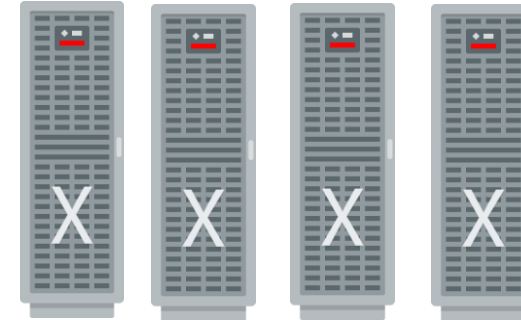
Oracle Database Cloud Service Infrastructure

General Purpose



- Test, Development, Departmental Applications
- Compute Shapes - by OCPU, Standard or High RAM
- Block Storage – by the GB
- Up to 2TB database

Engineered Systems

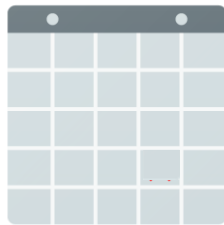


- Mission Critical, Intensive OLTP and Decision Support
- ¼, ½ and Full Rack Shapes
- Fixed Storage and Memory by Shape
- Up to 168TB database

Oracle Database Cloud – Subscription Types

Un Metered

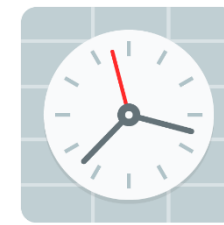
- Services available as un metered services are purchased on a term subscription basis.
- The database schema service is sold as an un metered service with terms of monthly, 1 year, 2 years and 3 years.
- Cloud credits can not be used to pay for un metered services.
- Un metered services can not be exchanged for cloud credits.



Monthly

Metered

- Cloud credits charged hourly against a rate card.
- For example an Oracle EE Extreme Performance service will burn credits faster than an Oracle SE1 database.
- Likewise a database server on 16 OCPUs (cores) will burn cloud credits faster than a 2 OCPU shape.
- Metered services are paid for in advance typically for a term of 1, 2 or 3 years.
- At the end of the term the unused credits expire.



Hourly

Greater Flexibility

Oracle Database Cloud – Full Instance Editions

Enterprise Edition (EE)

adds...

- Transparent Data Encryption (TDE)
- All standard EE features

Standard Edition 1

- Full database instance
- Up to 16 OCPUs

EE High Performance

adds...



Multitenant



Data Guard



Partitioning



Advanced Compression



Advanced Security, Label Security, Database Vault



Real Application Testing



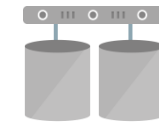
OLAP, Analytics, Spatial and Graph



Management Packs

EE Extreme Performance

adds...



Real Application Clusters (RAC)



In Memory

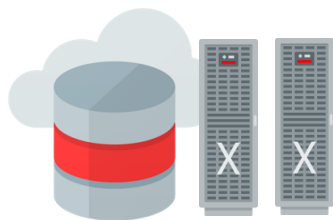


Active Data Guard

Oracle Database Cloud Services Offering

DATABASE SCHEMA SERVICE

- Fully Managed Service by Oracle
- Monthly Subscription by Database Size (5, 20, 50 GB)
- Single Database Schema, each tenant is a single schema
- Database patches and upgrades performed during scheduled maintenance windows
- Deployed on Engineered Systems, DB Edition is EE
- Data access using RESTful Web Services, no SQL*Net access
- Available since October 2013



DATABASE AS A SERVICE

- Full Database available as a metered* service (Hourly or Monthly)
- Available as a Virtual Image, Automated or Managed* Service
- Tenant controls patch and upgrade schedule
- Available on general purpose or engineered systems
- Editions: SE1, EE, EE High Performance, EE Extreme Performance
- Full root and DBA access



EXADATA SERVICE

- Deployed on Engineered Systems
- Customer can subscribe to a ¼, ½ or full Exadata rack for a monthly fee
- Mission Critical, Intensive OLTP and Decision Support
- Comes as an Extreme Performance edition - includes all DB options
- Full-featured dedicated 11gR2 or 12c multi-node RAC instance
- Capacity on Demand - start with 40% of cores per node enabled, add cores as needed
- Fixed Storage and Memory by Shape



Oracle DATABASE AS A SERVICE

Database as a Service

Full Database Instance Service

Virtual Image

VM + DB + Disk Image

- Full distribution extracted on disk
- Same as on premise

Database Cloud Service

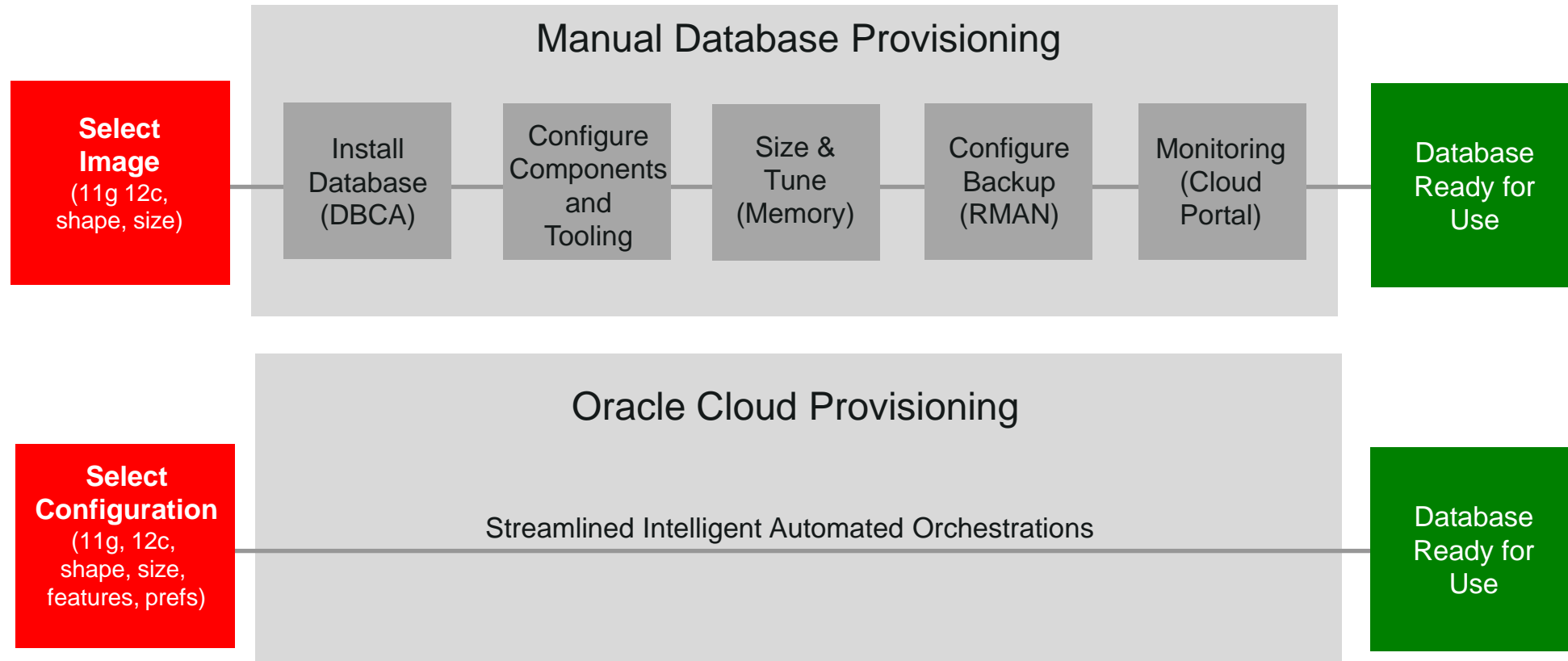
VM + DB + Full Provisioning

- Backup/recovery automation
- Patching and upgrade automation
- Monitoring & management portals
- Local management console

- Oracle Linux 6.4
- On-demand storage & compute
- Choice of editions SE1, EE and Database 12c 12.1.0.2, and 11g 11.2.0.4
- Bundles: EE High Performance (most options), EE Extreme Perf (all options)
- Network isolation, Full SQL*Net access
- Self-managed with SSH access into VM with root privilege

Oracle Database as a Service

Oracle Database Cloud Simplifies Database Provisioning



Oracle Database Cloud

Oracle Database and Infrastructure On-Premise Provisioning

On-Premise

1. Procure Data Center Floor space
2. Procure Servers
3. Procure Storage Devices
4. Procure SSL Certificates & Keys
5. Procure HSM Devices (for encryption)
6. Procure OS Licenses
7. Procure Anti-Virus Licenses
8. Procure SIEM Licenses
9. Allocate Storage Admin
10. Allocate System Admin
11. Allocate Database Admin
12. Allocate Network Admin
13. Install Server
14. Cable Server to Network
15. Install SSL Certificates & Keys
16. Acquire Public/Private IP Addresses
17. Acquire Domain Name (from internal DNS)
18. Install Storage Devices
19. Acquire IP Addresses
20. Install SSL Certificates and Keys
21. Create Physical Storage Volumes
22. Register Storage Devices with Server
23. Install Operating System
24. Create System Administrator Accounts
25. Register with Corporate LDAP Directory
26. Register with Audit Software
27. Add Users to System Administration Accounts
28. Register Servers with Redhat Administrative Console
29. Install Hypervisor
30. Create Virtual LAN Partitions
31. Allocate IP Addresses (Private)
32. Carry out Network Address Translation (NAT)
33. Register Virtual LANs with Network Switch
34. Add Users to Hypervisor Administrator Accounts
35. Register Guests with VMWare ESX Console
36. Run Clusterware Pre-requisite checks
37. Run Oracle DBMS Install Pre-requisite checks
38. Read database installation guild
39. Stage Oracle Database software
40. Configure Oracle Database
41. Log in to the system as root
42. Check HW, Memory, System, Disk, software, OS, OS Kernel, package, compiler, and additional software requirements
43. Create required OS Groups and Users, Oracle Inventory group, oracle software owner, OSDBA group, OSOPER group
44. Synchronize groups with LDAP repository
45. Configure Kernel parameters and resource limits, create required directories, configure user
46. Install oracle database; select clusterware/grid installation, specify base installation pathname
47. Specify software location, choose file system or ASM, specify file location, specify ASNSNMP password, database edition, OSDBA group, global name
48. Specify database name, database name domain, administrative password, confirm password
49. Verify database is functioning properly
50. Email developers access credentials and configuration details

Oracle Database Cloud

Oracle Database Provisioning On-premise vs in the Cloud

On-Premise

1. Procure Data Center Floor space
2. Procure Servers
3. Procure Storage Devices
4. Procure SSL Certificates & Keys
5. Procure HSM Devices (for encryption)
6. Procure OS Licenses
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Oracle Cloud

1. Choose version of DBMS
2. Choose Edition SE, EE, EE High, EE Extreme
3. Choose Shape – storage, cores, memory
4. Choose Backup and Patching windows
5. Upload Key
6. Press Go

30-60 Minutes

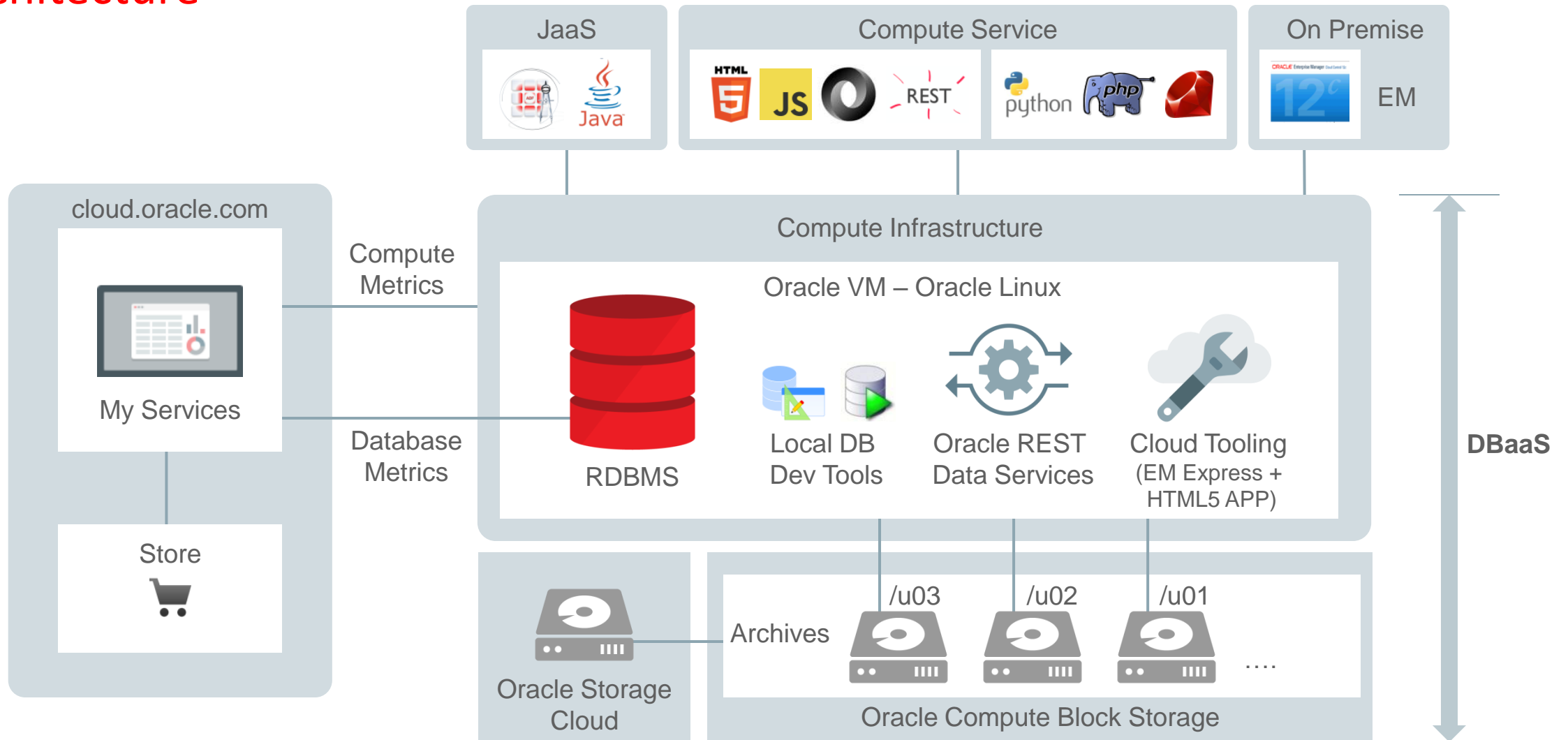
Days

A woman in a blue blazer is listening to a man in a grey suit in an office setting. The man is gesturing with his hands while speaking. A laptop is open on a desk in the foreground.

Oracle Database Cloud Service

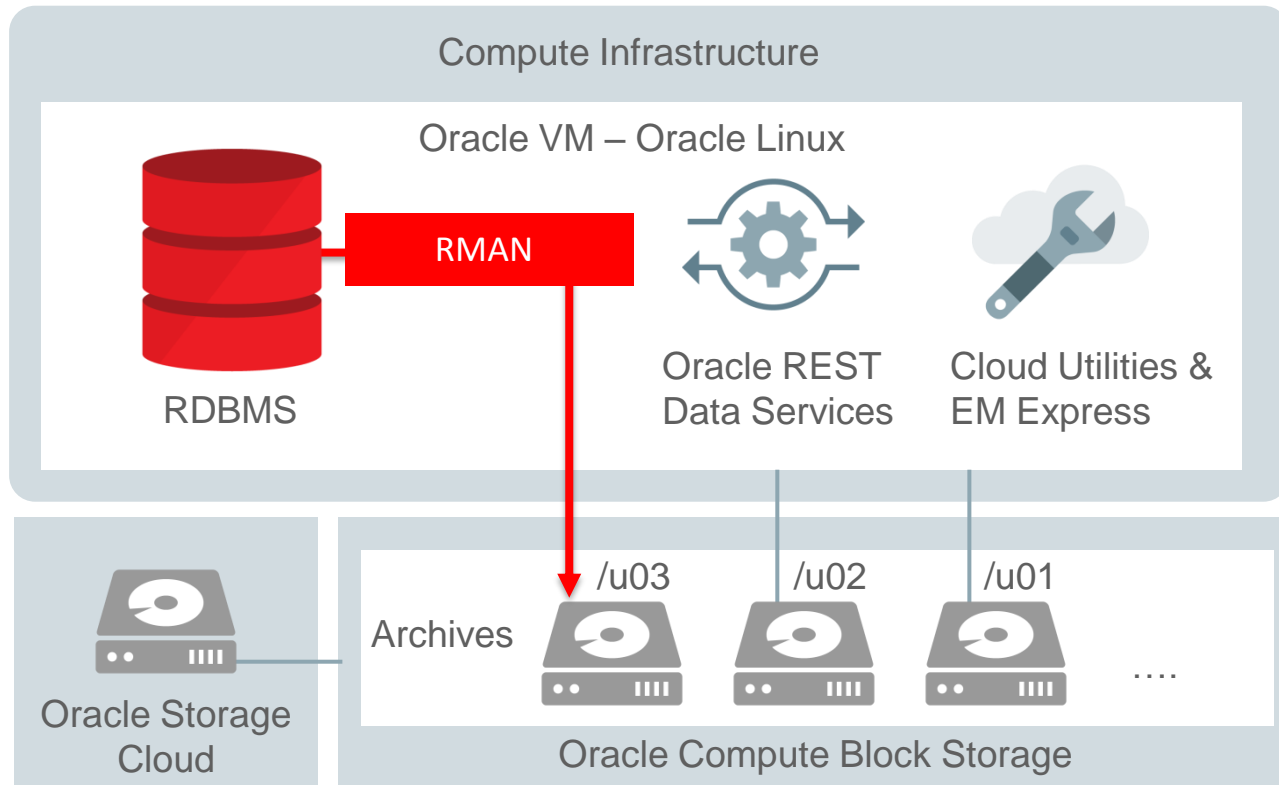
Architecture Overview

Oracle Database as a Service Architecture



Oracle Database as a Service

Backup and Recovery



- Daily Incremental
- Weekly Full
- Older backups archived to Oracle Storage Cloud
- Backups go to /u03 Block Storage
- Recovery from backup is invoked manually if customer determines its required
- Restore to point in time is customer responsibility, use standard tools and processes

Oracle Database as a Service

Rich New Tools and User Interfaces

ORACLE Database as a Service

Identity Domain: My Identity Domain
Subscription: Paid

RUNNING INSTANCES 2
OCPU's 6
MEMORY 24
STORAGE 10

Provision New Database as a Service

Release Edition Instance **Details** Confirmation

Service Details
Please provide details for your Java as a Service

Database as a Service
* Service Name: MyDatabase4
Description:
* Backup Destination: Both-DB Backup & Block Storage

Backup and Recovery Configuration
* Username:
* Password:
* PDB Name:
Failover Database:
E in

ORCL Database

Database Status
Current Load: 57.90%

Storage Used
1.6
1.61 GB out of 2 GB

Active Sessions
30
30 out of 472

Database as a Service

RDBMS Running
Features, configuration, backup, recovery

Networking Running
TNS Listener, Wallet, SSL, Firewall

Glassfish Configure G

REST Listener Running
Configure REST and PL/SQL toolkit listener

ORACLE Database as a Service Home Monitor Configure Help

Status

Database Status Running

Database Storage 54.13

Waits
User I/O
System I/O
Other
Commit
Scheduler

Sessions 40
40 active / 51 open / 476 maximum

Alerts 5535
5535 errors in 167368 log entries

DBaaS
Overview page for monitoring your Database as a Service. Each of the high level indicators, with the exception of Database Status, links to a more detailed view of the monitored area.

Storage 1
72.50 GB allocated

Monitor
RDBMS
Storage, Sessions, Alerts

Configure
RDBMS
Features, configuration, backup, recovery

Glassfish
Configure G

Storage
72.50 GB allocated

- SYSAUX
- UNDOTBS1
- USERS
- SYSTEM
- EXAMPLE
- APEX_3173900402462017
- STATS_DATA

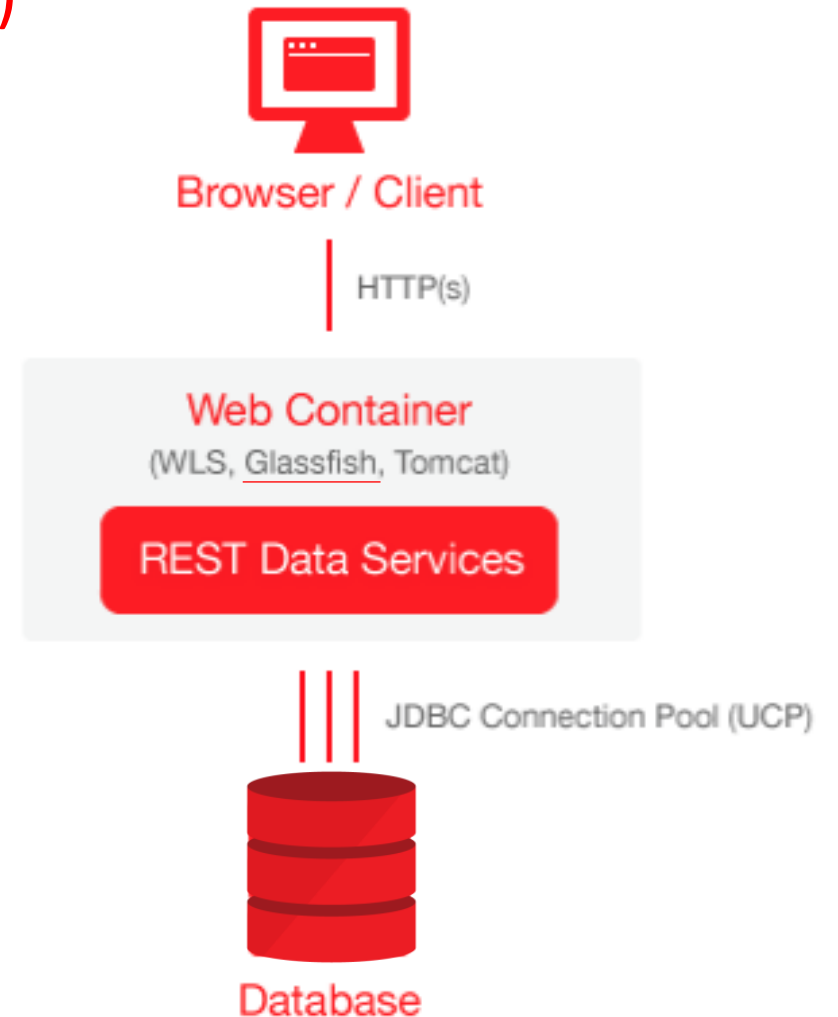
Monitor
User I/O
Application I/O
Other
Cluster
On CPU

SAMPLE_TIME	SESSION_ID	SERIAL#	USERNAME	WAIT_CLASS	ACTIVE_SQL
29-AUG-2014 11:52:39	38	26297	DBAAS_MONITOR	On CPU	SELECT COUNT(*) alerts_total, SUM(CASE WHEN message_text LIKE '%ORA-%' THEN 1 ELSE 0 END) alerts_errors FROM v\$sql_alert_ext WHERE LOWER(component_id) = 'rdms'
29-AUG-2014	38	26297	DBAAS_MONITOR	On CPU	SELECT COUNT(*) alerts_total, SUM(CASE WHEN message_text LIKE '%ORA-%' THEN 1 ELSE 0

Oracle Database as a Service

Oracle REST Data Services (formerly APEX listener)

- Turns Database Service into an RESTful API service
- Fully provisioned and functional in all cloud editions
- Available in both 11g and 12c, no extra cost
- Allows publishing of URI based access to Oracle database over REST
- Results in JSON or CSV
- Mapping of URI to SQL or PL/SQL
- All HTML methods GET, PUT, POST, DELETE, PATCH
- OAuth2 integration
- Highly scalable



Other Tools included

GlassFish Console (support for REST Data Services)

The screenshot shows the Oracle GlassFish Server console interface. The browser address bar displays `https://129.152.134.185:4848/common/index.jsf`. The page title is "Oracle GlassFish™ Server". The user is logged in as "admin" on "domain1" at server "129.152.134.185".

The main content area is titled "Common Tasks" and is organized into several sections:

- GlassFish News:** Support, Registration, GlassFish News
- Deployment:** List Deployed Applications, Deploy an Application
- Administration:** Change Administrator Password
- Monitoring:** Monitoring Data
- Documentation:** Quick Start Guide, Administration Guide, Application Development Guide, Application Deployment Guide
- Update Center:** Installed Components, Available Updates, Available Add-Ons
- Other Tasks:** Create New JDBC Connection Pool

A left-hand navigation menu lists various components like Domain, Clusters, Standalone Instances, HTTP Load Balancers, Nodes, Applications, Lifecycle Modules, Monitoring Data, Resources, and Configurations.

At the bottom, there is a "Stay Connected" section with social media icons for Twitter, YouTube, LinkedIn, and Facebook, along with links to the GlassFish community, deployment information, and support resources.

Oracle Database Cloud Service

Enterprise Manager 12c – One Console for Hybrid Management

The screenshot displays the Oracle Enterprise Manager 12c console interface, specifically the Chargeback section. The main area is divided into several panels:

- Charge Summary:** Contains three pie charts:
 - By Cost Center:** Shows 27.2% for Org1, 64% for Org2, and 8.7% for Unassigned Users.
 - By Target Type:** Shows 1.3% for Host, 8.7% for Oracle VM Guest, and 90% for Oracle WebLogic Server.
 - By Resource:** Shows 5.9% for Host and 93% for Oracle VM Guest.
- Storage Utilization:** Shows a table of storage volumes with columns for Storage Volume, Contents, Mount Point, Writable Storage Used, and Synchronized On. The table lists volumes like 'vip.us.oracle.com:/export' and '.../sm_vol_...'.
- Performance:** Includes a line graph for Active Sessions and a bar chart for Host CPU usage.
- Resources:** Contains sub-panels for Active Sessions, Memory (GB), and Data Storage (GB).
- SQL Monitoring:** A table showing active SQL queries with columns for Status, Duration, SQL ID, Session ID, Parallel, and Database Time.
- Requests:** A table showing backup requests with columns for Request ID, Name, Status, Service Instance, Request Type, and S/T.

At the bottom left, the Oracle logo is visible. At the bottom center, the copyright notice reads: Copyright © 2015, Oracle and/or its affiliates. All rights reserved. |

Other Tools included

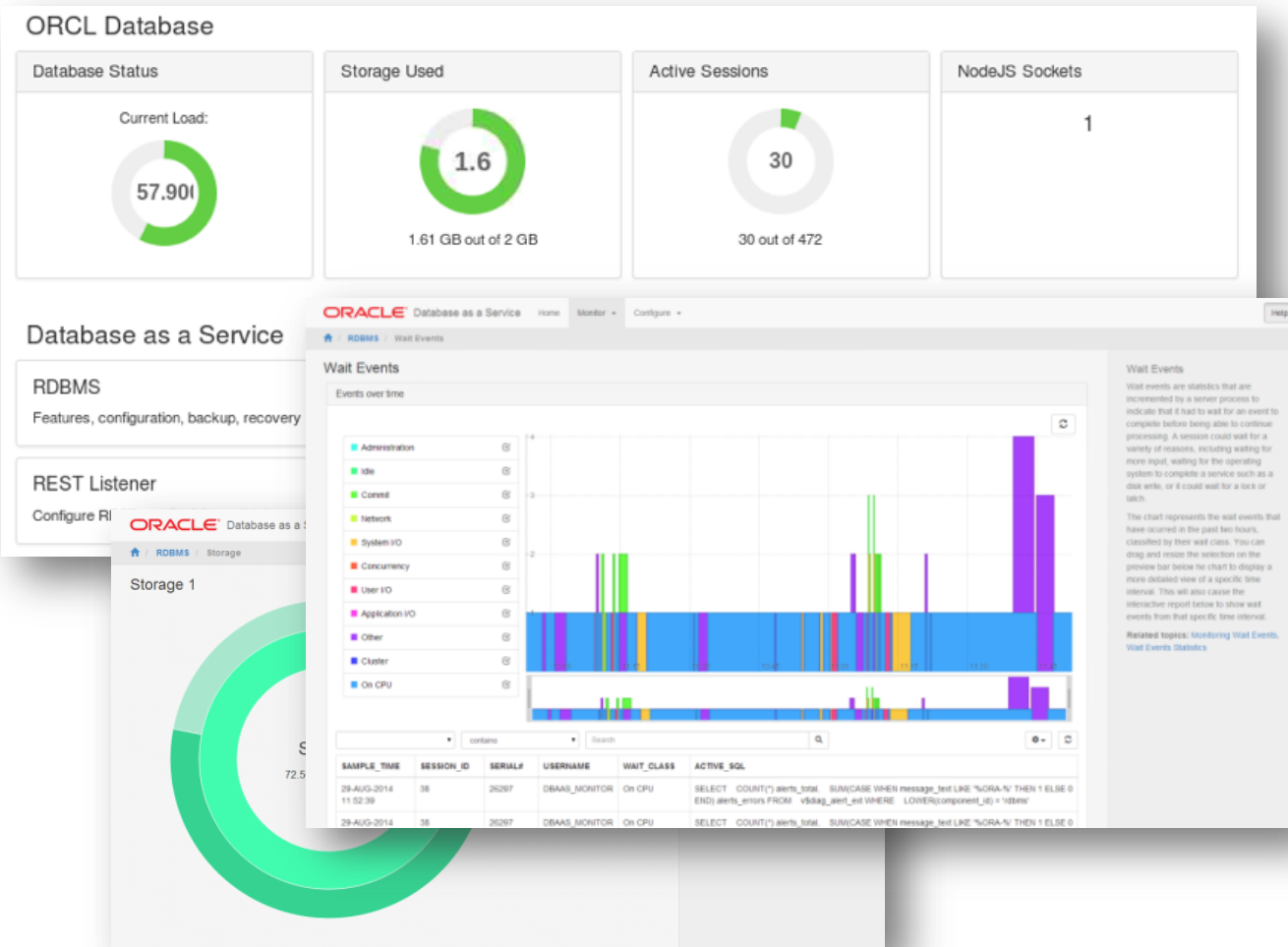
EM12c Express Console

The screenshot displays the Oracle Enterprise Manager Database Express 12c console for a database instance named ORCL. The interface includes a navigation menu with options like Configuration, Storage, Security, and Performance. The main content area is divided into several sections:

- Status:** Shows database details such as Up Time (4 hours, 11 minutes, 57 seconds), Type (Single instance (ORCL)), Version (12.1.0.2.0 Enterprise Edition), Database Name (ORCL), Instance Name (ORCL), Platform Name (Linux x86 64-bit), Host Name (DBtest-rs2), Oracle Home, Thread (1), and Archiver (Started).
- Resources:** Contains three sub-sections:
 - Host CPU:** A bar chart showing CPU usage at approximately 0.8% and Other usage at approximately 0.4%.
 - Active Sessions:** A bar chart showing session counts for Wait (0.1), User I/O (0.1), and CPU (0.1).
 - Memory:** A stacked bar chart showing memory usage for Buffer Cache (1.5 GB), Shared Pool (0.25 GB), Large Pool (0.1 GB), Java Pool (0.1 GB), Shared I/O Pool (0.1 GB), Other SGA (0.1 GB), and PGA (0.1 GB).
- Performance:** Contains two sub-sections:
 - Pack Restriction:** A warning message stating "Oracle Diagnostics Pack is required."
 - SQL Monitor - Last Hour (20 max):** Another warning message stating "Oracle Tuning Pack is required."
- Running Jobs:** A table with columns for Instance, Container Name, Owner, Name, Elapsed, and Started. The table is currently empty, displaying "No Running Jobs".

Other Tools included

New DB Monitor



- HTML5 application hosted within the VM
 - Front end: JavaScript & JQuery
 - Backend: REST Listener using Glassfish
 - All communications are via REST
 - REST listener uses server side JavaScript with file system access and DB connections to display information

DBaaS Monitor - Top Features:

- Monitor database sessions, disk & CPU
- View version, features installed ...
- Configure database parameters
- Initiate backups
- Bounce database
- View log and trace files

Other Tools included

APEX Console

The screenshot shows the Oracle Application Express Administration Console. The browser address bar displays the URL: `https://apex/pdb1/f?p=4050:3:2454150674996::NO::`. The page title is "ORACLE Application Express" and the user is logged in as "ADMIN".

Navigation Menu: Home, Manage Requests, Manage Instance, Manage Workspaces, Monitor Activity. A search bar is located on the right.

Instance Administration: A central section with four main actions: Manage Requests (database icon with plus), Manage Instance (hammer and wrench icon), Manage Workspaces (database icon with wrench), and Monitor Activity (gauge icon). A "Create Workspace" button is in the top right.

Administration: A sidebar on the right with sections: Administration (instructions), Provisioning (Manual), Instance Tasks (Feature Configuration, Security, Instance Settings, Workspace Purge Settings), Workspace Tasks (Create Workspace, Create Multiple Workspaces, Find a Workspace, Manage Workspaces, Create User, Find a User, Reset User Password), and Accessibility Mode (Standard).

System Messages: A yellow banner states "No system message defined".

Pending Requests: A section with a right arrow and a message: "This instance is running in manual provisioning mode, so it will not be accepting service requests".

Workspace Summary: A table showing the count of various workspace components.

Component	Count
Workspaces	1
Schemas	1
Applications	0
Users	2
Mail Queue Entries	0
Worksheets	5

Jobs: A table listing scheduled jobs.

Job Name	Last Run
ORACLE_APEX_DAILY_MAINTENANCE	4 hours ago
ORACLE_APEX_MAIL_QUEUE	4 minutes ago
ORACLE_APEX_PURGE_SESSIONS	39 minutes ago

Security Settings: A table showing configuration options.

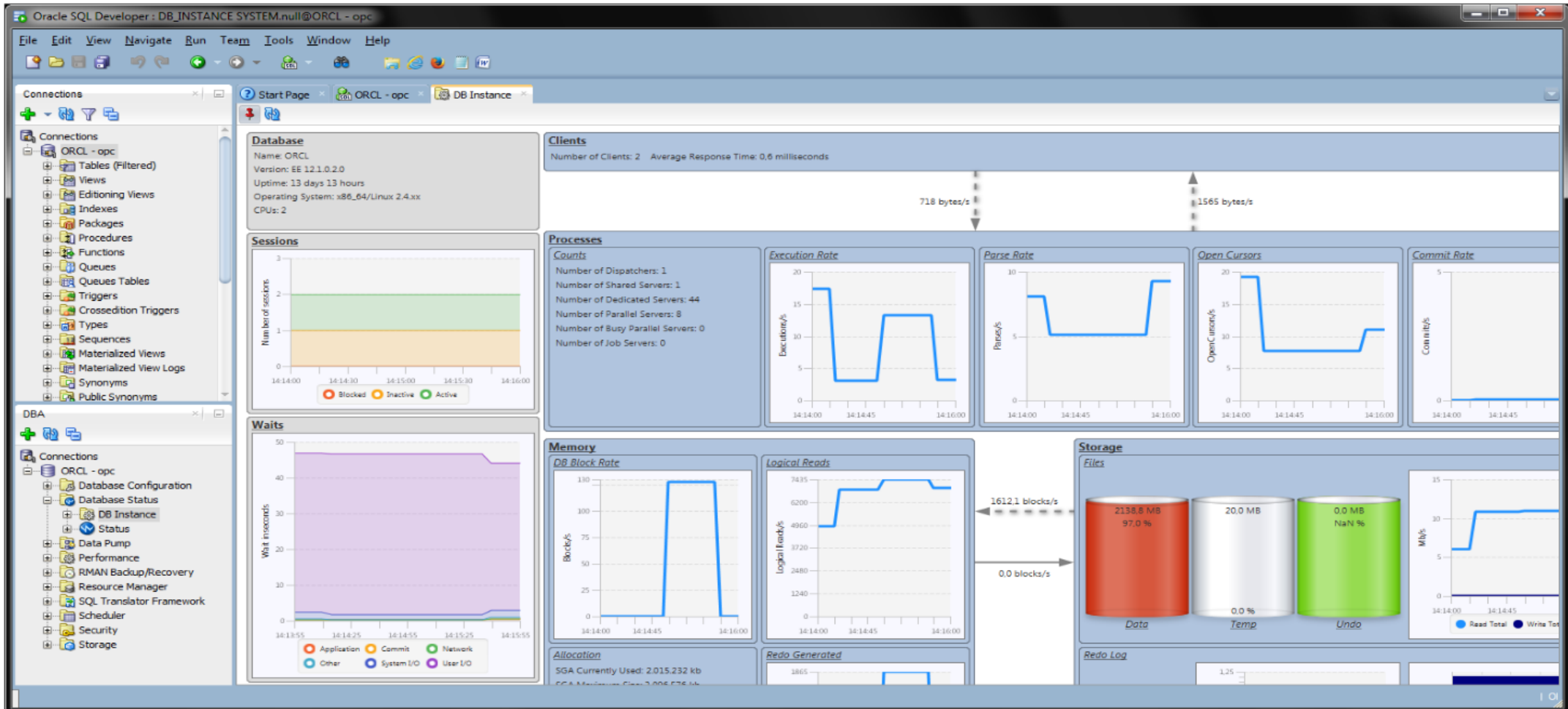
Setting	Value
Require HTTPS	No
Maximum Session Idle Seconds	3600
Expire User Accounts	No



*Firewall reconfig required to access any other protocol than SSH

Oracle Database Cloud Service

SQL Developer 4.x – management of Oracle DB on-premise and in Cloud



Oracle Database as a Service – EM Express 12c

Step by Step to Clone or Move your Pluggable Database to the Cloud

On-Premise Database

ORACLE Enterprise Manager Database Express 12c

Containers

Status

PDB(s)

Total Number of PDBs: 3

Using Oracle-Managed Files: Yes

Resource Limits

Active Sessions

Actions

Create

Clone

Remote Clone

Plug

Unplug

Drop

Set Storage Limits

Set Resource Limits

Open

Open All

Close

Close All

Container Home

Performance Hub

Processing

Unplugging PDB WIKIAPP in progress...

Confirmation

PDB WIKIAPP successfully unplugged into /app/oracle/oradata/cdb3/CDB3/WIKIAPP.xml

SQL >

OK

Oracle Cloud Database

ORACLE Enterprise Manager Database Express 12c

Containers

Status

PDB(s)

Total Number of PDBs: 0

Using Oracle-Managed Files: Yes

Resource Limits

Active Sessions

Actions

Create

Clone

Remote Clone

Plug

Unplug

Drop

Set Storage Limits

Set Resource Limits

Open

Open All

Close

Close All

Container Home

Performance Hub

Processing

Plugging PDB in progress...

Confirmation

PDB WIKIAPP plugged in successfully

SQL >

OK

A woman in a blue blazer is smiling and talking to a man in a grey suit. They are in an office setting with a laptop on a desk in the foreground. The woman is leaning forward, resting her chin on her hand. The man is gesturing with his hands as if explaining something. The background is a blurred office environment with windows and doors.

Oracle Database Cloud Service

DBaaS Initial Provisioning

- Java Cloud Service
View/Manage Java Cloud instances
- Database Cloud Service
View/Manage Database Cloud instances
- Oracle Compute Cloud Service
View/Manage Compute Cloud instances

Dashboard



Database Cloud Service

Category: Oracle Database Public Cloud Services
Subscription: Trial
Expires 22-Mar-2015 8:21 PM PDT

SE1 VI OCPU Months
(General Purpose)

No data



EE HP VI OCPU Months
(General Purpose)

No data



Quick Links

- Set Preferences
- Add User
- Create Service Request
- Transfer Trial To Customer



Oracle Database Backup Service

Category: Oracle Database Public Cloud Services
Subscription: Trial
Expires 22-Mar-2015 8:21 PM PDT

Storage Capacity
(GB-Months)

No data



Oracle Storage Cloud Service

Category: Oracle IaaS Public Cloud Services
Subscription: Trial
Expires 22-Mar-2015 8:21 PM PDT

Storage Capacity
(GB-Months)

No data



Oracle Database Cloud Service

Identity Domain: ploracle59978

As of 23-Jan-2015 5:00:50 PM UTC ↻

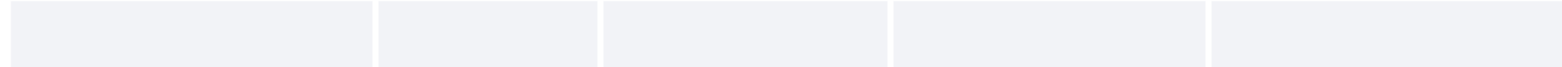
INSTANCES

OCPUs

MEMORY

STORAGE

PUBLIC IPs



INSTANCES

Create Instance

No services created

▶ Failed attempts to create or delete an instance in the last 7 days

Create Database Cloud Service Instance

Cancel



Next >

Subscription Type

Select the service level and billing frequency for this Oracle Database Cloud Service instance.

Service Level

Oracle Database Cloud Service - Virtual Image

- Oracle Database Server pre-installed on Oracle Cloud Virtual Machine.
No additional cloud tooling available

Oracle Database Cloud Service

- Oracle Database Server pre-installed on Oracle Cloud Virtual Machine.
Access to all additional cloud tooling available

Billing Frequency

Hourly

- Pay for the number of hours used

Monthly

- Pay one low price for the entire month irrespective of the number of hours used

Live Chat | Contact Us

Create Database Cloud Service Instance

Previous

Cancel



Next

Software Release

Select the database release version for this Oracle Database Cloud Service instance.

Oracle Database 11g Release 2

- Oracle Database Version 11.2.0.4 on Oracle Linux 6.4

Oracle Database 12c Release 1

- Oracle Database Version 12.1.0.2 on Oracle Linux 6.4

Live Chat | Contact Us

Create Database Cloud Service Instance

[← Previous](#) [Cancel](#)



[Next →](#)

Software Edition

Select the database edition for this Oracle Database Cloud Service instance.

- Enterprise Edition** [\(Details\)](#)
 - Oracle Database 12c Release 1 on Oracle Linux 6.4
- Enterprise Edition - High Performance** [\(Details\)](#)
 - Oracle Database 12c Release 1 on Oracle Linux 6.4
- Enterprise Edition - Extreme Performance** [\(Details\)](#)
 - Oracle Database 12c Release 1 on Oracle Linux 6.4

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Create Database Cloud Service Instance

[Previous](#) [Cancel](#)



[Next](#)

Service Details

Provide details for this Oracle Database Cloud Service instance.

Instance Configuration

* Instance Name ?

Description ?

* Compute Shape

* VM Public Key [Edit](#) ?

Backup and Recovery Configuration

* Backup Destination ? Select a backup destination.

Database Configuration

* Usable Database Storage (GB)

Total Data File Storage (GB)

* Administration Password ?

* Confirm Password ?

* DB Name (SID) ?

* PDB Name ?

Failover Database

Total Estimated Monthly Storage (GB)
Includes data files and backup storage

Not yet available. Coming soon
Setting up Data Guard creates a primary

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Create Database Cloud Service Instance

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[Create >](#)

Confirmation

Confirm your responses and create this Oracle Database Cloud Service instance.



Service Level: Oracle Database Cloud Service
Billing Frequency: Monthly
Software Release: Oracle Database 12c Release 1
Software Edition: Enterprise Edition
Instance Name: DBtest-rs2
Description: DBtest-rs2
Compute Shape: OC3 - 1 OCPU, 7.5 GB RAM
Key: key pub rs1 pasted.key
Usable Database Storage: 49
Total Data File Storage: 89.9
DB Name (SID): ORCL
PDB Name: PDB1



Backup Destination: DISK

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Oracle Database Cloud Service

Identity Domain: ploracle59978

As of 23-Jan-2015 4:45:17 PM UTC ↻

INSTANCES	OCPUs	MEMORY	STORAGE	PUBLIC IPs
1	1	7.5 GB	90.0 GB	1

INSTANCES

Create Instance

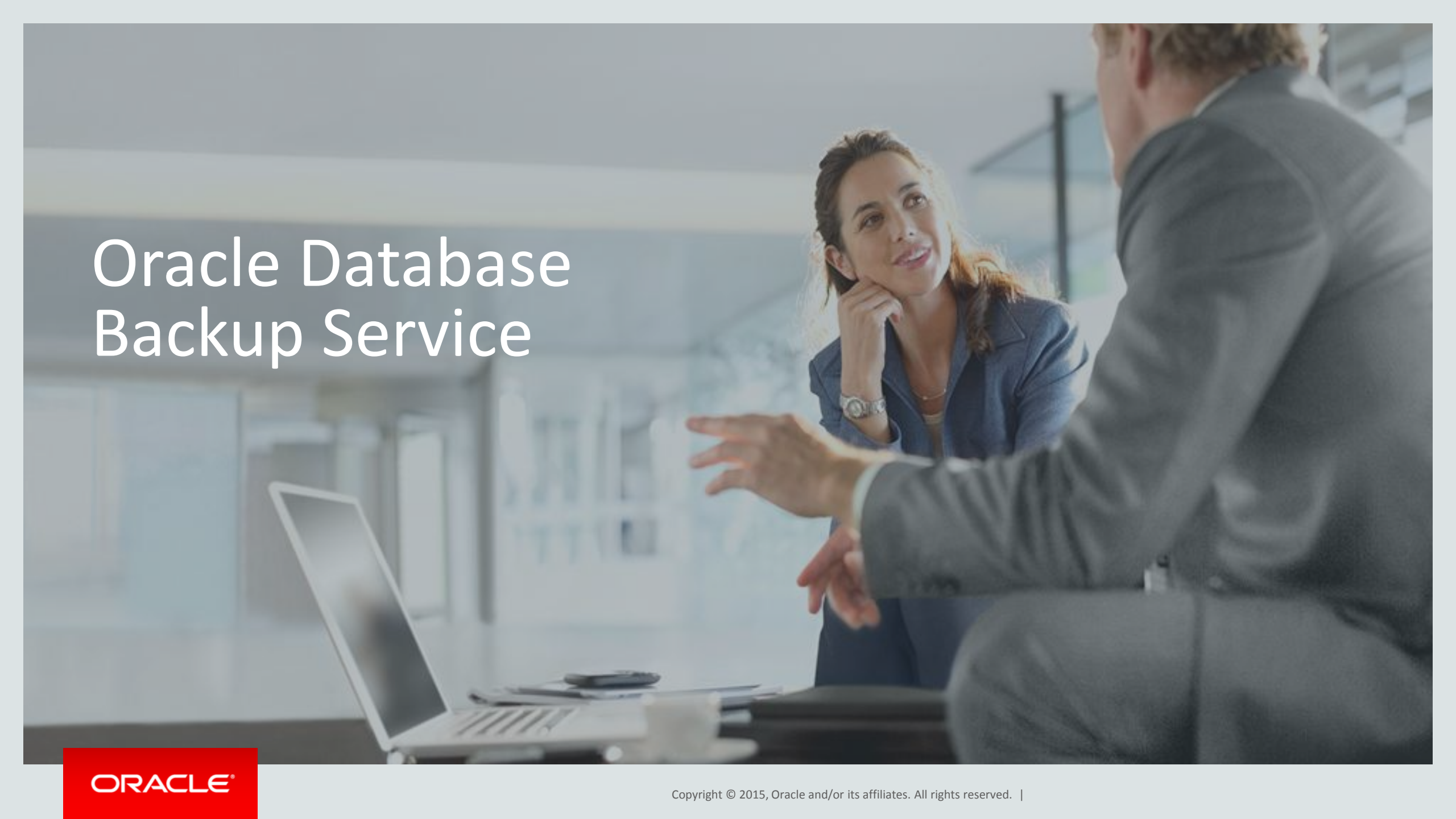
	DBtest-rs2 Version: 12.1.0.2 Edition: Enterprise Edition	Created On: 23-Jan-2015 11:28 AM UTC	OCPUs: 1 Memory: 7.5 GB Storage: 90.0 GB	☰
--	---	--------------------------------------	--	---

▶ Failed attempts to create or delete an instance in the last 7 days

Oracle Database as a Service – Use Cases

- Lift and Shift (of Departmental and Line-of-Business apps)
- New Applications
- Development and Test
- Temporary project environments
- Training environments
- Java Applications, and Oracle ADF Apps
- Oracle Application Express (APEX) Apps
- RESTful Web Services for HTML5 and Mobile Apps
- Oracle SaaS custom extensions
- 12c adoption



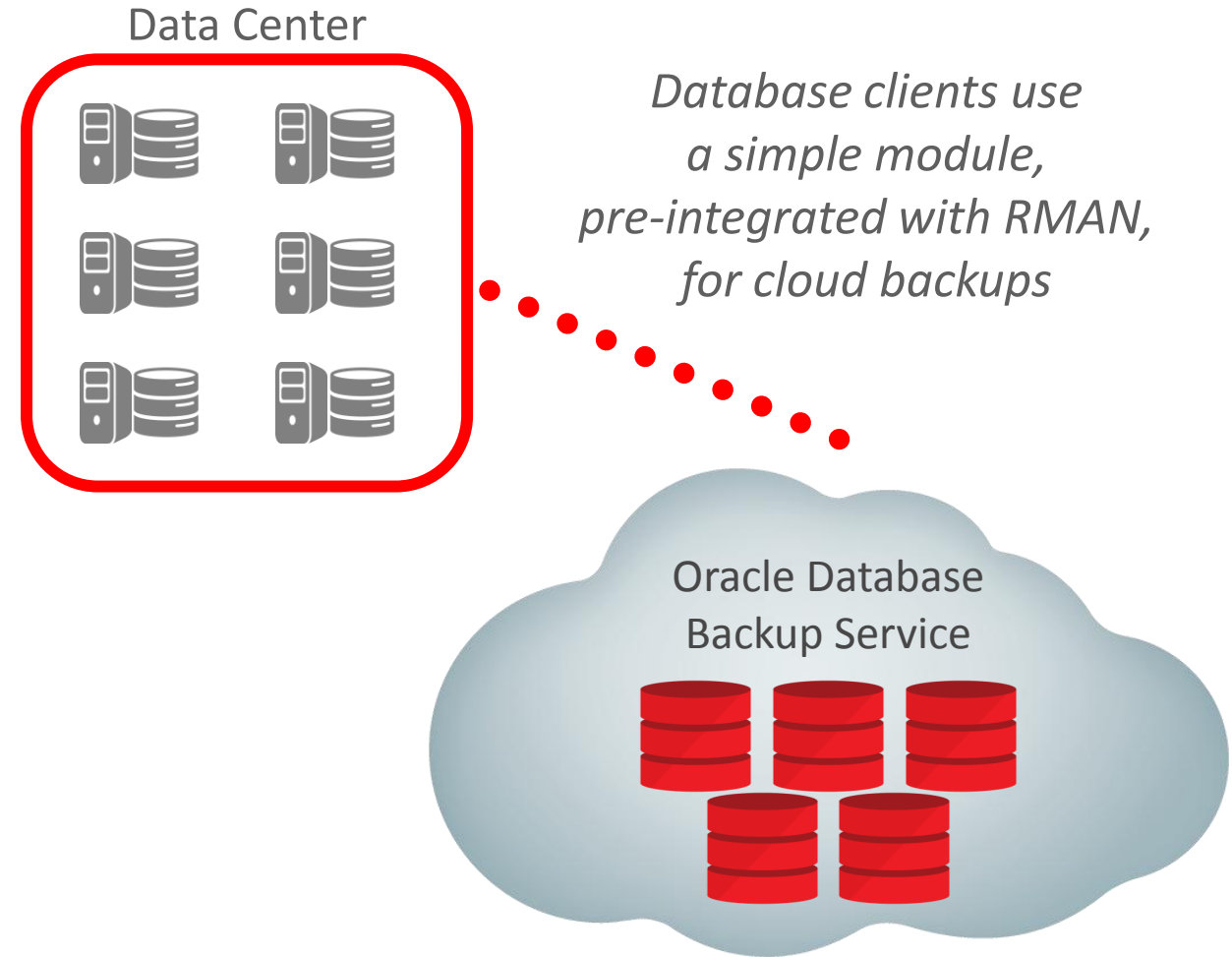
A woman in a blue blazer is listening intently to a man in a grey suit who is gesturing with his hands. They are in an office setting with a laptop open on a desk in the foreground. The background is a blurred office environment with large windows.

Oracle Database Backup Service

Oracle Database Backup Service

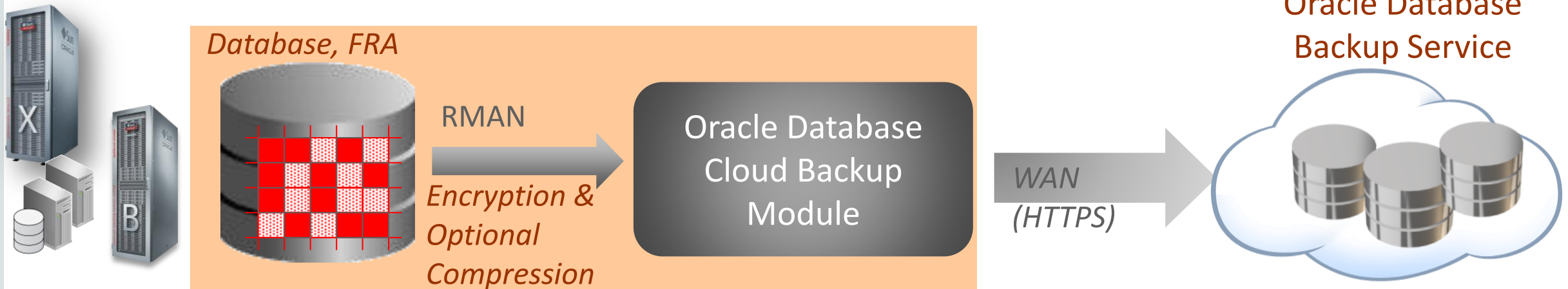
Replace Offsite Tape Backups with Simple and Low Cost Cloud Backup

- Backup on-premise or Cloud Databases to Oracle Database Backup Service hosted in Oracle Public Cloud
- Cost effective, scalable cloud storage for database backups: \$33/TB per month
- End-to-end enterprise-grade data encryption, compression and protection
 - **Clients:** Data is always encrypted with keys kept locally at client, optionally compressed, and securely transmitted
 - **Cloud:** Encrypted data is protected with 3-way mirroring on every write



Oracle Database Cloud Backup Module

- Download and install the RMAN SBT module from OTN
- Backups streamed to Oracle Cloud using SBT (Tape) library
- Seamless integration with the Recovery Manager (RMAN)
- Use regular RMAN commands with no new commands to learn
- RMAN encryption for backups - keys kept locally to client
- Securely transmitted to the cloud over HTTPS



Support Matrix

	Versions
Oracle Database - EE	10.2, 11g, 12c (64 bits)
Oracle Database - SE	10.2, 11g, 12c (64 bits) + Patch 18339044
Platforms (64 bits)	Linux, Solaris, SPARC, Windows, HP-UX, AIX, zLinux
RMAN Compression	HIGH, MEDIUM, BASIC, LOW <i>(depends on DB version)</i>
RMAN Encryption	Password, TDE, Dual-mode



Oracle Database Cloud Service

Packaging and Pricing

Oracle Database Cloud Service: Pricing

Database as a Service - General Purpose Compute

Product (per OCPU)	Virtual Image	Virtual Image + Cloud Tooling
Standard Edition 1	\$400 / Month \$0.672 / Hour	\$600 / Month \$1.008 / Hour
Enterprise Edition	\$1,500 / Month \$2.520 / Hour	\$3,000 / Month \$5.040 / Hour
Enterprise Edition - High Performance	\$2,000 / Month \$3.360 / Hour	\$4,000 / Month \$6.720 / Hour
Enterprise Edition - Extreme Performance	\$3,000 / Month \$5.040 / Hour	\$5,000 / Month \$8.401 / Hour

Database as a Service - High-Memory Compute

Product (per OCPU)	Virtual Image	Virtual Image + Cloud Tooling
Standard Edition 1	\$500 / Month \$0.840 / Hour	\$700 / Month \$1.176 / Hour
Enterprise Edition	\$1,600 / Month \$2.688 / Hour	\$3,100 / Month \$5.208 / Hour
Enterprise Edition - High Performance	\$2,100 / Month \$3.528 / Hour	\$4,100 / Month \$6.888 / Hour
Enterprise Edition - Extreme Performance	\$3,100 / Month \$5.208 / Hour	\$5,100 / Month \$8.569 / Hour

Database Schema Service

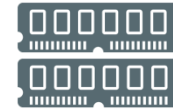
Product	Price	Storage ¹	Transfer ²
Database S5	\$175 / Month	5GB	30GB / Month
Database S20	\$900 / Month	20GB	120GB / Month
Database S50	\$2,000 / Month	50GB	300GB / Month



- General Purpose -> 7.5GB Memory per 1 OCPU*
- High Memory -> 15GB Memory per 1 OCPU*

Available on Pricing Tab @ <https://cloud.oracle.com>

Oracle Database Cloud Service – Compute Shapes



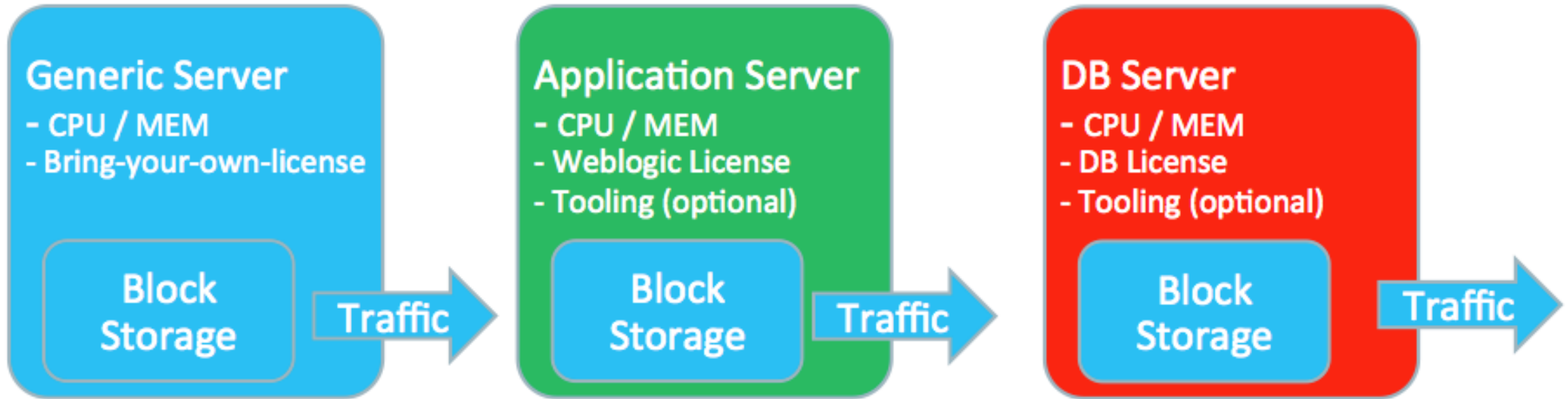
OCPU	Standard Memory (GB)	High Memory (GB)
1	7.5	15
2	15	30
4	30	60
8	60	120
16	120	240

OCPU is defined as the CPU capacity equivalent of one physical core of an Intel Xeon processor with hyper threading enabled. Each OCPU corresponds to two hardware execution threads, known as vCPUs.

<http://www.oracle.com/us/corporate/contracts/paas-iaas-public-cloud-2140609.pdf>

Pre-Paid Subscriptions: Different Types

Pre-paid subscription based solution



- Oracle IaaS Public Cloud Services
- Oracle Java Public Cloud Services
- Oracle Database Public Cloud Services

Pre-paid subscription buckets

Outbound Data Traffic = actual usage in Gb
Static IP = per hour
Compute Cloud Block Storage = Capacity and IO per month
Object Storage (optional) = Capacity per month

Oracle Database as a Service

Summary

- Same architecture, standards and products for on-premise & cloud
- Automation - Reduced Time and Cost of Provisioning and Management
- Standardization of Services Eases DB Fleet Management
- Elasticity - Capacity on Demand
- Easier Adoption of Full Oracle Capabilities through Automation
 - Real Application Clusters (RAC), Data Guard, Active Data Guard, TDE Encryption, Multitenant PDBs, Compression, Partitioning, Spatial, Text, JSON, XML, In-Memory, Performance and Tuning Advisors, ASM, REST
- Subscription Pricing of broadest choice of Oracle Software



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