



YUNHE ENMO (BEIJING) TECHNOLOGY CO,LTD

Oracle Cloud: I'm already expert in "On-Premises" databases.. What I must know to be Expert in the Cloud ?

*Joel Pérez – Senior DBA Oracle
Oracle ACE Director*

Beijing, 2017



ORACLE
ACE Director

About me

- 17 Years working with Oracle Technology
- Oracle Technology Network Expert “OTN” Expert
2003 Award
- Oracle ACE 2004 Award
- Oracle ACE Director 2012 Award
- Consulting Tasks, Conferences and activities related
to, in over 50 countries around the globe
- OCM (Oracle Certified Master)



ORACLE
ACE Director

- One of the first:
OCM Maximum Availability
OCM Cloud
and OCM 12c in the world

ORACLE

Certified Master

Oracle Database 12c
Maximum Availability
Architecture

ORACLE

Certified Master

Database Cloud
Administrator

ORACLE

Certified Master

Oracle Database 11g
Administrator

ORACLE

Certified Master

Oracle Database 12c
Administrator

➤ Official reviewer of Books: “OCM11g Study Guide” & “Oracle Data Guard 11gR2 Administration”

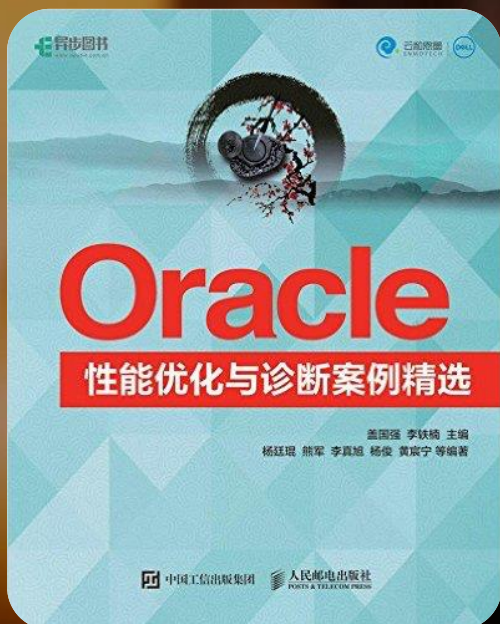


<http://www.ocmguide.com/>

https://www.amazon.fr/Oracle-Guard-11gR2-Administration-Beginners-ebook/dp/B00DM23X8Y/ref=sr_1_5?ie=UTF8&qid=1499931249&sr=8-5&keywords=book+basha



➤ Co-author Book: Oracle Performance Optimization and Diagnostics Case Selection (Oracle 性能优化与诊断案例精选)



Cloud Database
Books.. Coming Soon..

https://www.amazon.cn/gp/product/B01MREB0G3/ref=oh_aui_detailpage_o00_s00?ie=UTF8&psc=1
<http://item.jd.com/12002221.html>

- Technical Articles Written for OTN Spanish, Portuguese & English with +150 Published Articles
- Oracle Speaker at many Global Oracle events like: OTN LAD, OTN EMEA, OTN APAC, DTCC, Oracle Code and more..
- Actually, Senior Cloud Solution Architect in the Oracle Consulting company in China “www.Enmotech.com”
- I’m from Venezuela, living in Beijing, China and now ready to start this session..



ORACLE
ACE Director



云和恩墨
ENMOTECH

数据驱动 成就未来

Make Your Data Dance

ENMOTECH - Top Integrated Data Service Provider

- 6 Oracle ACE Director, 2 Oracle ACE, SQL Champion, and dozens of OCM experts, both with MySQL and DB2 experts;
- Provide services and solutions for more than 500 customers including Finance, Telecommunications, Insurance, Electricity, Energy and other industries.



Our mission: Data-Driven. Achievement in the Future!



Focus: Provide Professional Data / Database Operation and Maintenance Services For more than 300 Customers



Expert: Top Talents with Best Service

More than 200 experts, including 6 Oracle ACED and 2 Oracle ACE, 30+ OCM, 40+ OCP, Middleware / MySQL / DB2 and other open source experts.



Smart: Provide Emergency Services for more than 200 Customers

Provide Optimal Architecture Solutions and Services, including Emergency Rescue and Speedy Optimization

Team



Products



Wisdom

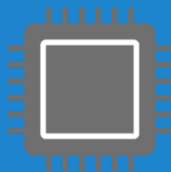


Play the role:

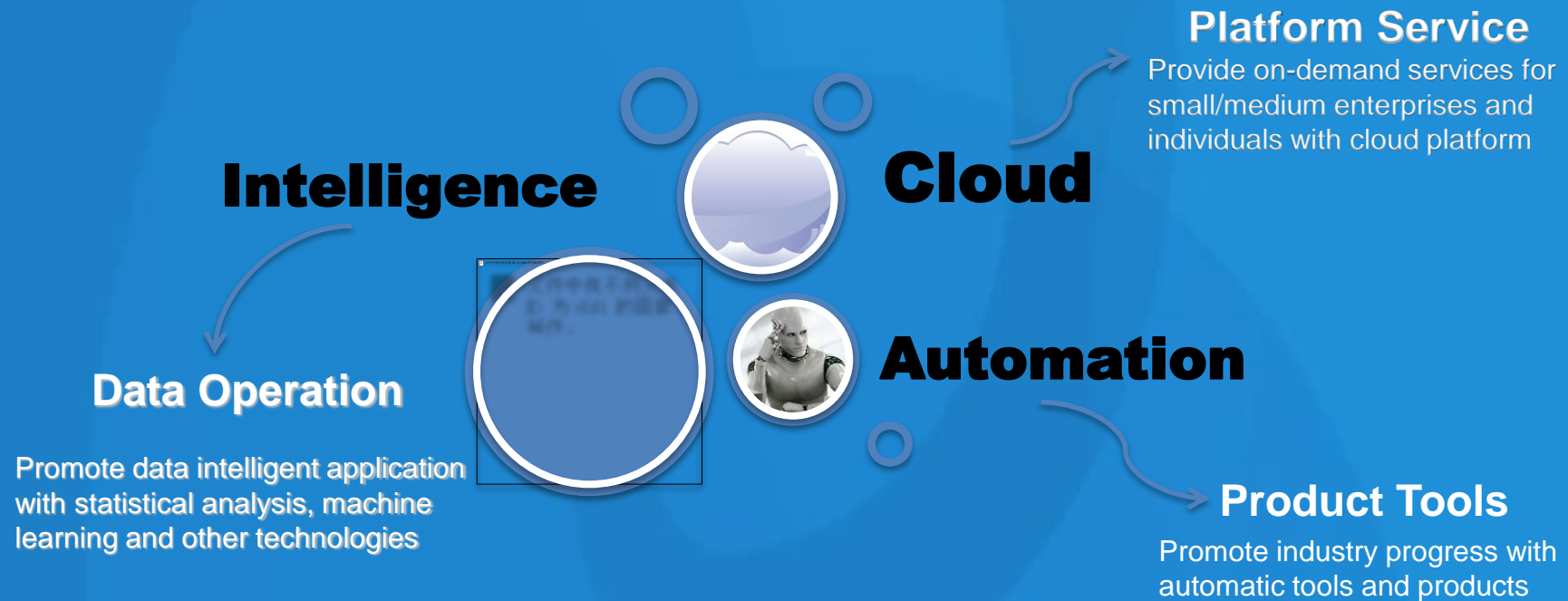
- With the spirit of artisan, create the best data service;
- As a service provider, provide operation & maintenance and expert support;
- As a product provider, operate alone or integrated as component ;
- As a provider of wisdom, think and innovate together with users.

Fully Provide Integrate Solutions

Enterprise
Database
System



ENMOTEC: TO the Future of Cloud and Intelligence

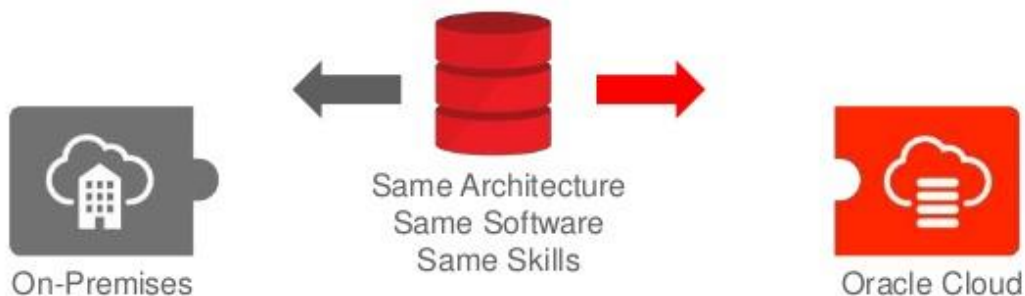


Let's start..

1.- Be expert in “On-Premises” databases

Oracle Database Cloud Service

Full portability between on-premises and cloud



- Architecture
- General Administration
- Backup
- Tuning
- High Availability Solutions (RAC, DG and others)
- etc

2.- Familiarization with:

- DBCS (Database Cloud Service Offerings)

Database Cloud Services: Oracle Cloud provides several Oracle Cloud Service deployment choices. These choices allow you to start at the cost and capability level suitable to your use case and then gives you the flexibility to adapt as your requirements change over time. Choices include: single schemas, dedicated pluggable databases, virtualized databases, bare metal databases and databases running on world class engineered infrastructure.

Oracle Database Cloud Service

Oracle Database Cloud Service – Bare Metal

Oracle Database Exadata Cloud Service

Oracle Database Exadata Express Cloud Service – Managed

Oracle Database Schema Cloud Service - Managed

https://cloud.oracle.com/en_US/database

2.- Familiarization with:

- Cloud Layers, Cloud Deployments

Cloud Layers: SaaS, PaaS, IaaS

Software as a Service

Applications delivered as a service to end-users over the Internet

Platform as a Service

App development & deployment platform delivered as a service

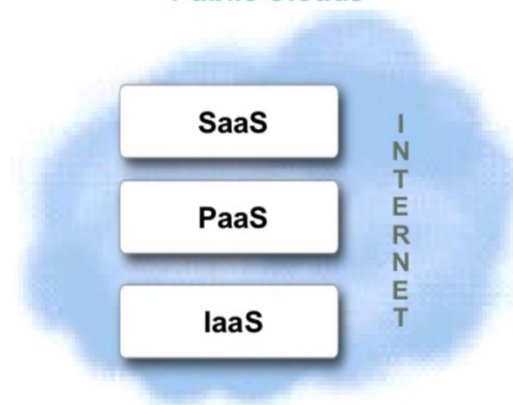
Infrastructure as a Service

Server, storage and network hardware and associated software delivered as a service

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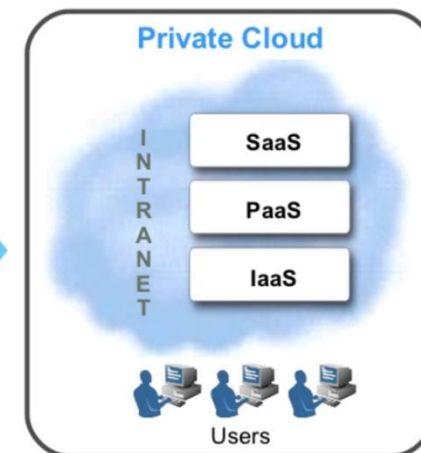
Cloud Deployment Models: Public, Private, Hybrid

Public Clouds



Public cloud providers offer services to multiple customers

Private Cloud



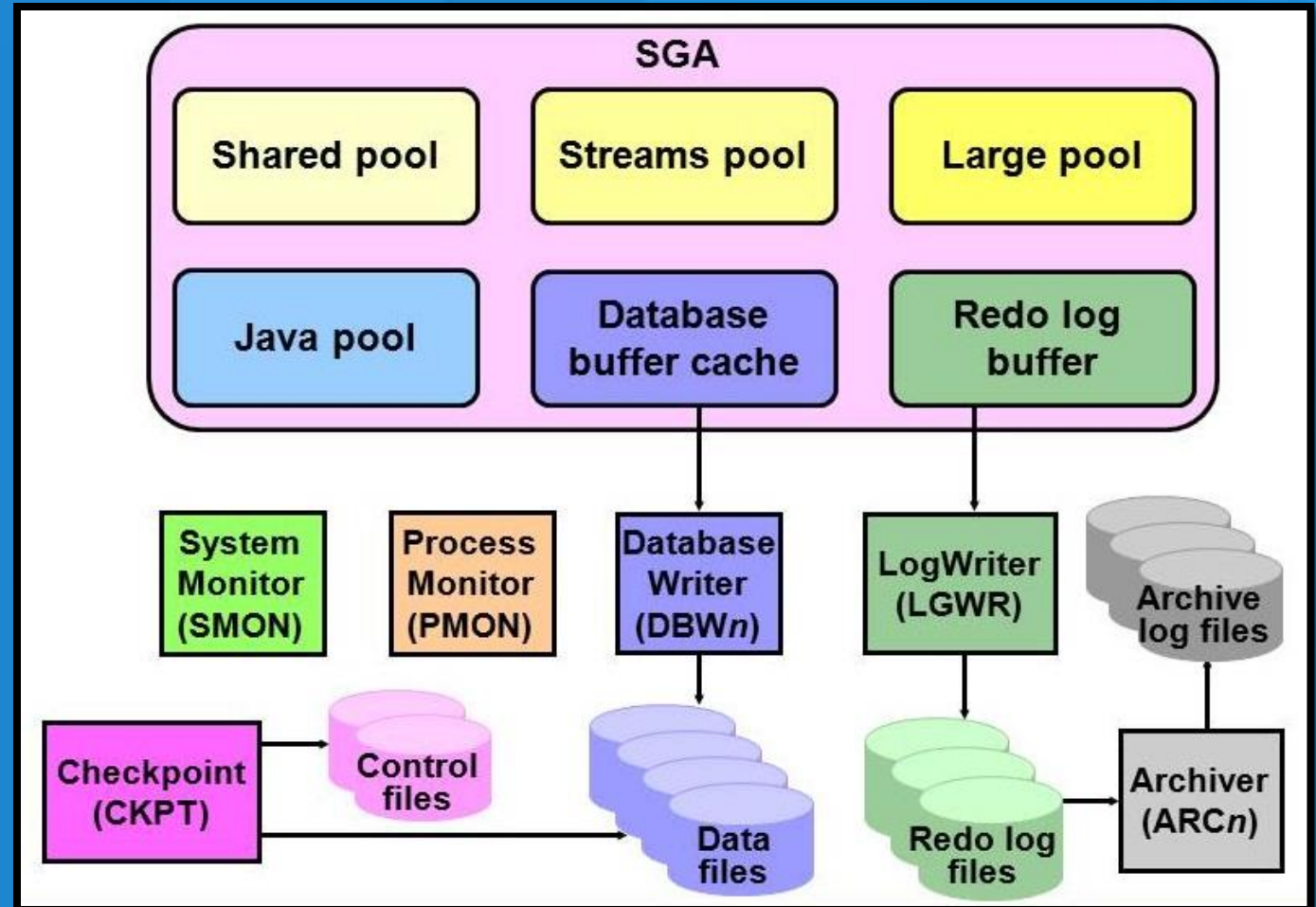
Enterprises create private clouds for exclusive use

ORACLE

3.- Knowing the main differences of administering databases “On-prem” & “Cloud”

Topic: Database Deployment vs. On-Premises Database

Database Instance: is a set of memory structures that manage database files

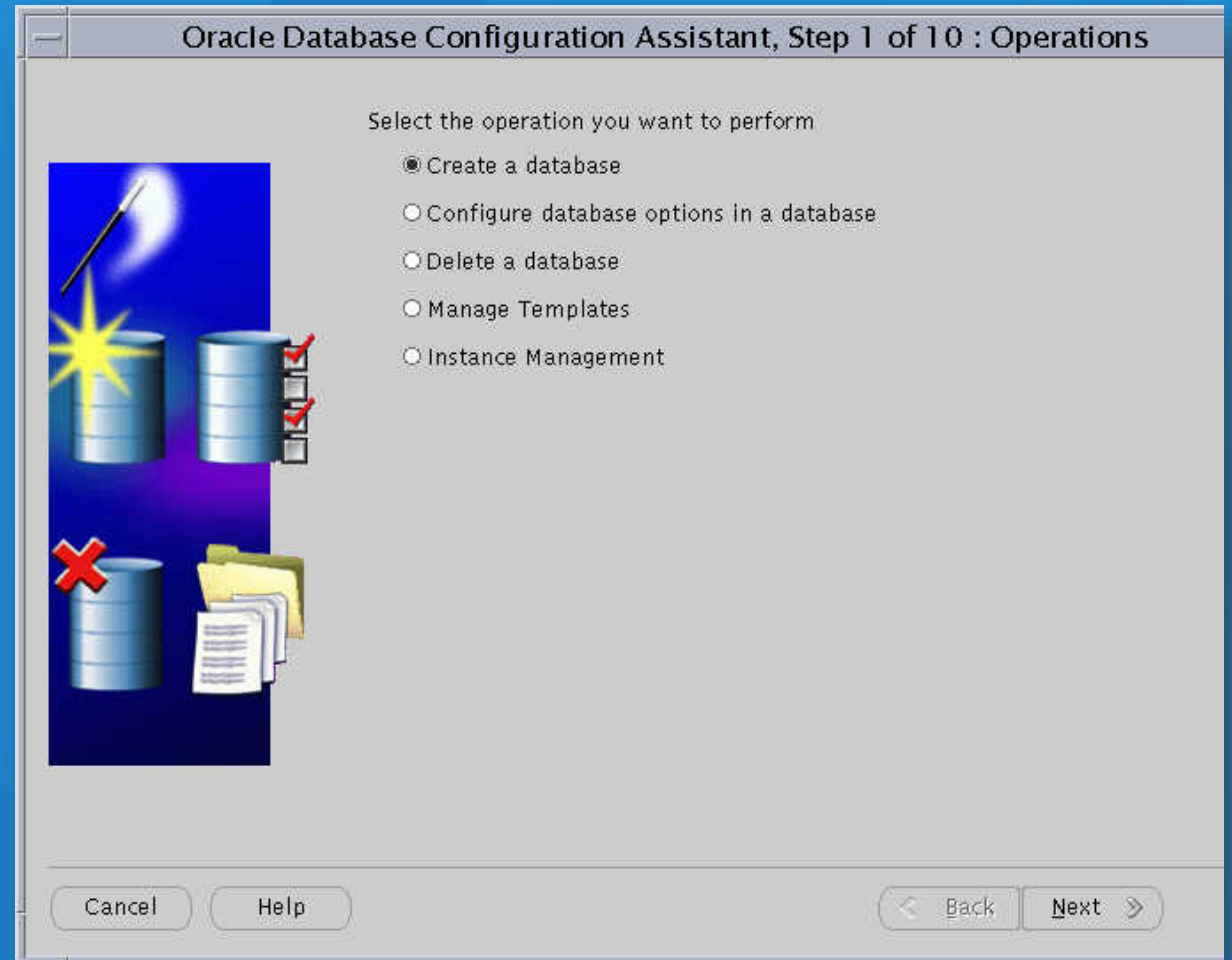


3.- Knowing the main differences of administering databases “On-prem” & “Cloud”

Topic: Database Deployment vs. On-Premises Database

Database Instance: is a set of memory structures that manage database files

Creating Databases using the DBCA (Database Configuration Assistant)



3.- Knowing the main differences of administering databases “On-prem” & “Cloud”

Topic: Database Deployment vs. On-Premises Database

Database Instance: is a set of memory structures that manage database files

Creating Databases using the DBCA (Database Configuration Assistant) in silent mode

```
dbca -silent -createDatabase -templateName General_Purpose.dbc  
-gdbname oradb.example.com -sid oradb -responseFile NO_VALUE  
-characterSet AL32UTF8 -memoryPercentage 30 -emConfiguration LOCAL
```

Enter SYSTEM user password:

password

Enter SYS user password:

password

Copying database files

1% complete

3% complete

...

...

3% complete

3% complete

3.- Knowing the main differences of administering databases “On-Prem” & “Cloud”

Topic: Database Deployment vs. On-Premises Database

Database Instance: is a set of memory structures that manage database files

Creating Databases using “Create Database” Command

```
CREATE DATABASE mynewdb
USER SYS IDENTIFIED BY sys_password
USER SYSTEM IDENTIFIED BY system_password
EXTENT MANAGEMENT LOCAL
DEFAULT TEMPORARY TABLESPACE temp
UNDO TABLESPACE undotbs1
DEFAULT TABLESPACE users;
```

3.- Knowing the main differences of administering databases “On-prem” & “Cloud”

Topic: Database Deployment vs. On-Premises Database

Database Deployment: is a compute environment that provides:

- A Linux Virtual Machine
- Oracle Software
- A pre-created database
- Additional Cloud Tools

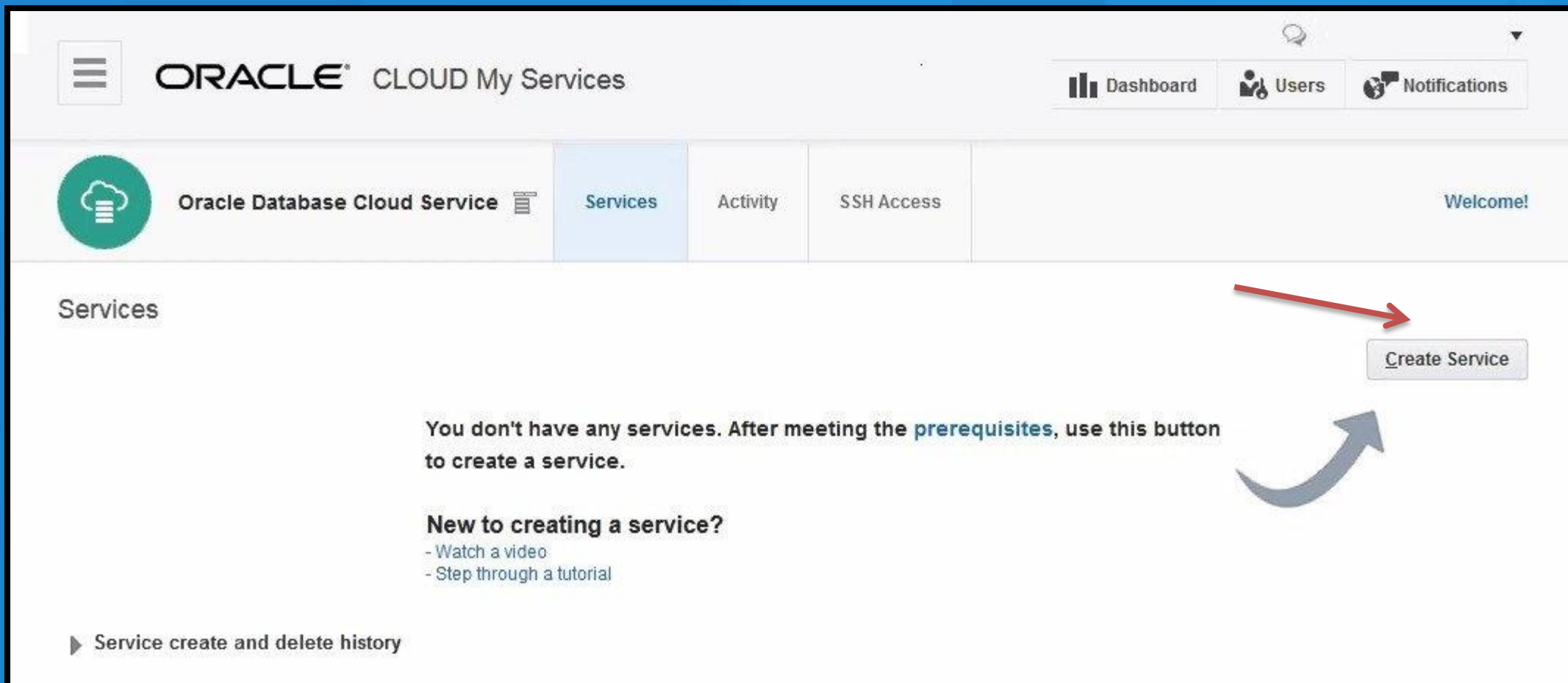
• A database deployment is formally called:
DBaaS Instance



Oracle Database Cloud Service

Topic: Database Deployment vs. On-Premises Database

Database Deployment or DBCS (Database Cloud Service)



ORACLE[®] CLOUD My Services

Dashboard Users Notifications

Oracle Database Cloud Service Services Activity SSH Access Welcome!

Services

You don't have any services. After meeting the prerequisites, use this button to create a service.

New to creating a service?

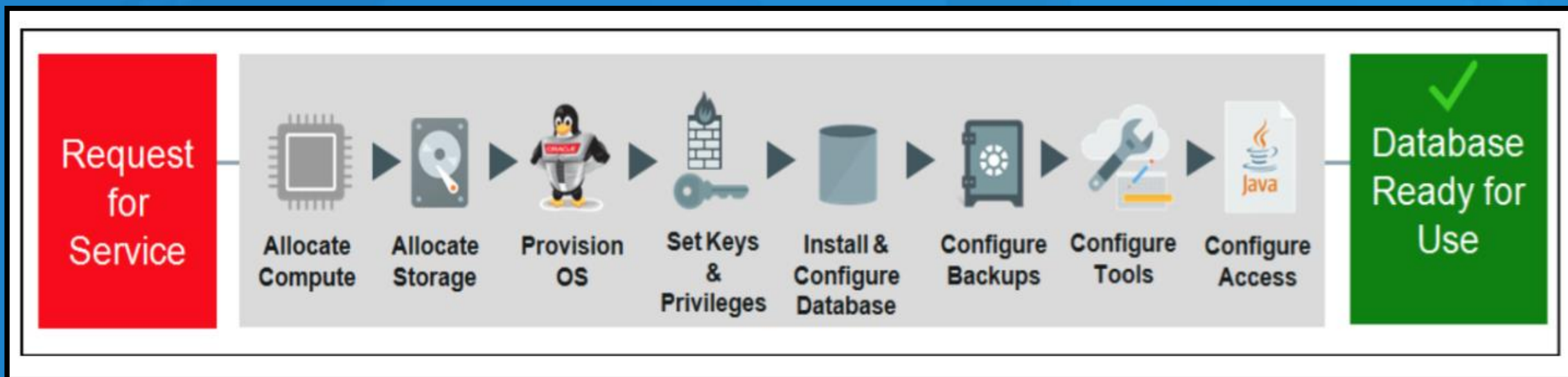
- Watch a video
- Step through a tutorial

▶ Service create and delete history

Create Service

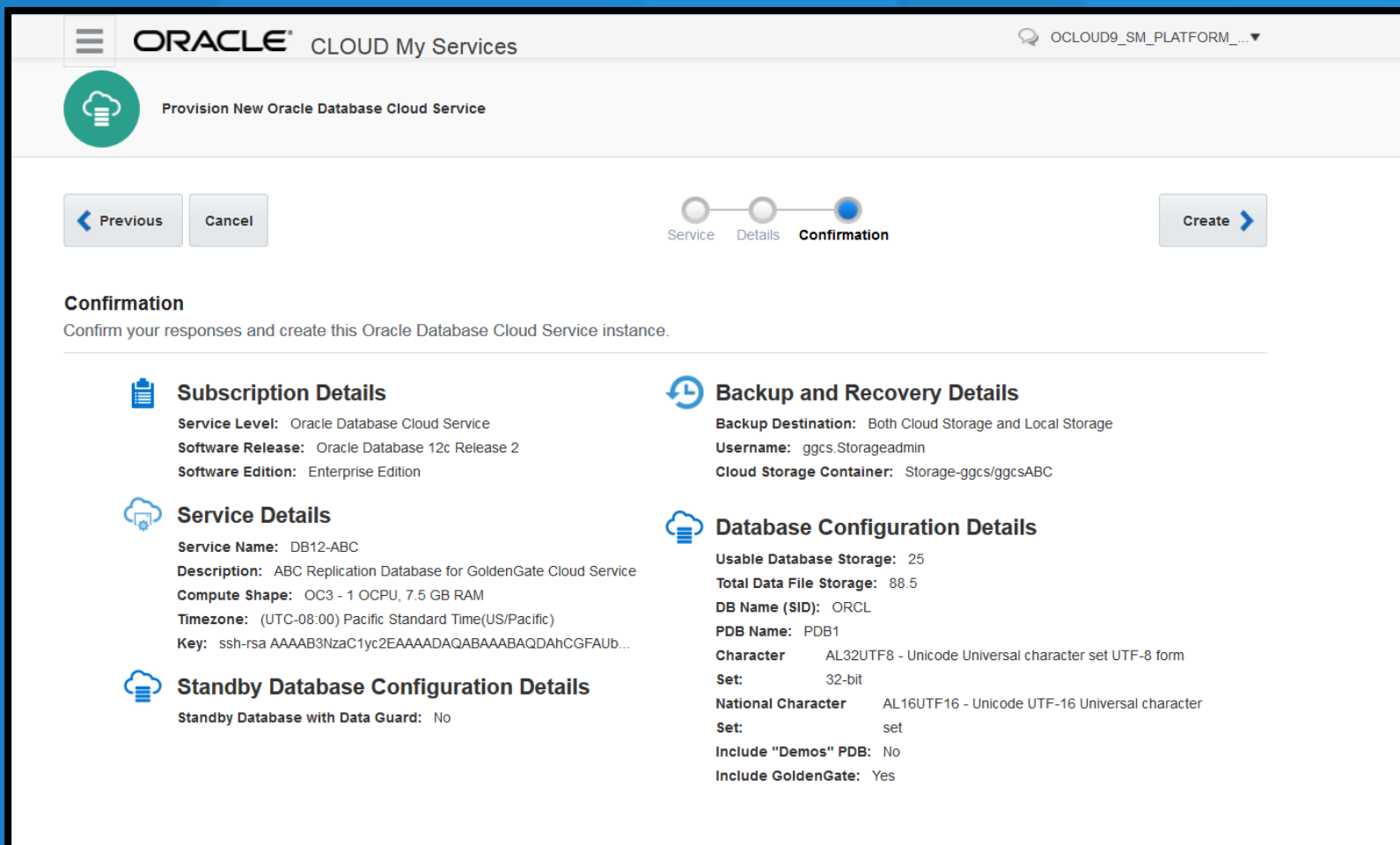
Topic: Database Deployment vs. On-Premises Database

Database Deployment or DBCS (Database Cloud Service)



Topic: Database Deployment vs. On-Premises Database

Database Deployment or DBCS (Database Cloud Service)



ORACLE CLOUD My Services

Provision New Oracle Database Cloud Service

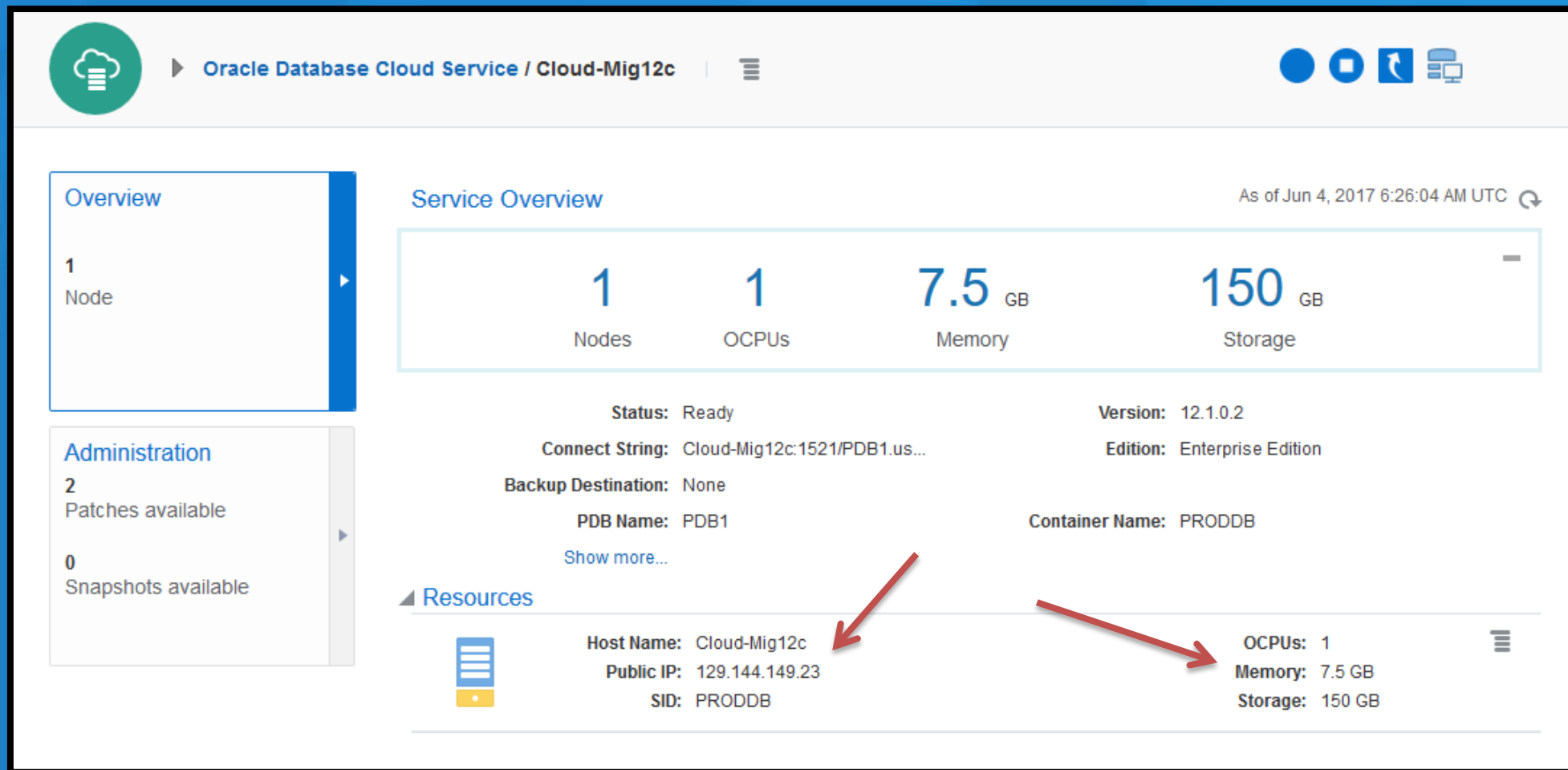
← Previous Cancel Service Details **Confirmation** Create →

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

<p>Subscription Details</p> <p>Service Level: Oracle Database Cloud Service Software Release: Oracle Database 12c Release 2 Software Edition: Enterprise Edition</p>	<p>Backup and Recovery Details</p> <p>Backup Destination: Both Cloud Storage and Local Storage Username: ggcs.Storageadmin Cloud Storage Container: Storage-ggcs/ggcsABC</p>
<p>Service Details</p> <p>Service Name: DB12-ABC Description: ABC Replication Database for GoldenGate Cloud Service Compute Shape: OC3 - 1 OCPU, 7.5 GB RAM Timezone: (UTC-08:00) Pacific Standard Time(US/Pacific) Key: ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQDAhCGFAUb...</p>	<p>Database Configuration Details</p> <p>Usable Database Storage: 25 Total Data File Storage: 88.5 DB Name (SID): ORCL PDB Name: PDB1 Character: AL32UTF8 - Unicode Universal character set UTF-8 form Set: 32-bit National Character: AL16UTF16 - Unicode UTF-16 Universal character Set: set Include "Demos" PDB: No Include GoldenGate: Yes</p>
<p>Standby Database Configuration Details</p> <p>Standby Database with Data Guard: No</p>	

Topic: Database Deployment vs. On-Premises Database

Database Deployment or DBCS (Database Cloud Service)



The screenshot displays the Oracle Database Cloud Service console for a service named 'Cloud-Mig12c'. The interface includes a navigation sidebar on the left with sections for 'Overview' (1 Node), 'Administration' (2 Patches available, 0 Snapshots available), and 'Resources'. The main content area shows a 'Service Overview' card with the following specifications: 1 Node, 1 OCPUs, 7.5 GB Memory, and 150 GB Storage. Below this, the service status is 'Ready', version is '12.1.0.2', and edition is 'Enterprise Edition'. Other details include 'Connect String: Cloud-Mig12c:1521/PDB1.us...', 'Backup Destination: None', 'PDB Name: PDB1', and 'Container Name: PROddb'. A 'Resources' section at the bottom provides host details: Host Name: Cloud-Mig12c, Public IP: 129.144.149.23, and SID: PROddb. Two red arrows point from the 'Host Name' and 'Public IP' fields to the 'Resources' section, highlighting the connection between the service configuration and the underlying infrastructure.

Oracle Database Cloud Service / Cloud-Mig12c

Overview

1 Node

Administration

2 Patches available

0 Snapshots available

Service Overview

As of Jun 4, 2017 6:26:04 AM UTC

1 Nodes

1 OCPUs

7.5 GB Memory

150 GB Storage

Status: Ready

Version: 12.1.0.2

Connect String: Cloud-Mig12c:1521/PDB1.us...

Edition: Enterprise Edition

Backup Destination: None

PDB Name: PDB1

Container Name: PROddb

Show more...

Resources

Host Name: Cloud-Mig12c

Public IP: 129.144.149.23

SID: PROddb

OCPUs: 1


Memory: 7.5 GB

Storage: 150 GB

Topic: Database Deployment vs. On-Premises Database

Database Deployment or DBCS (Database Cloud Service)

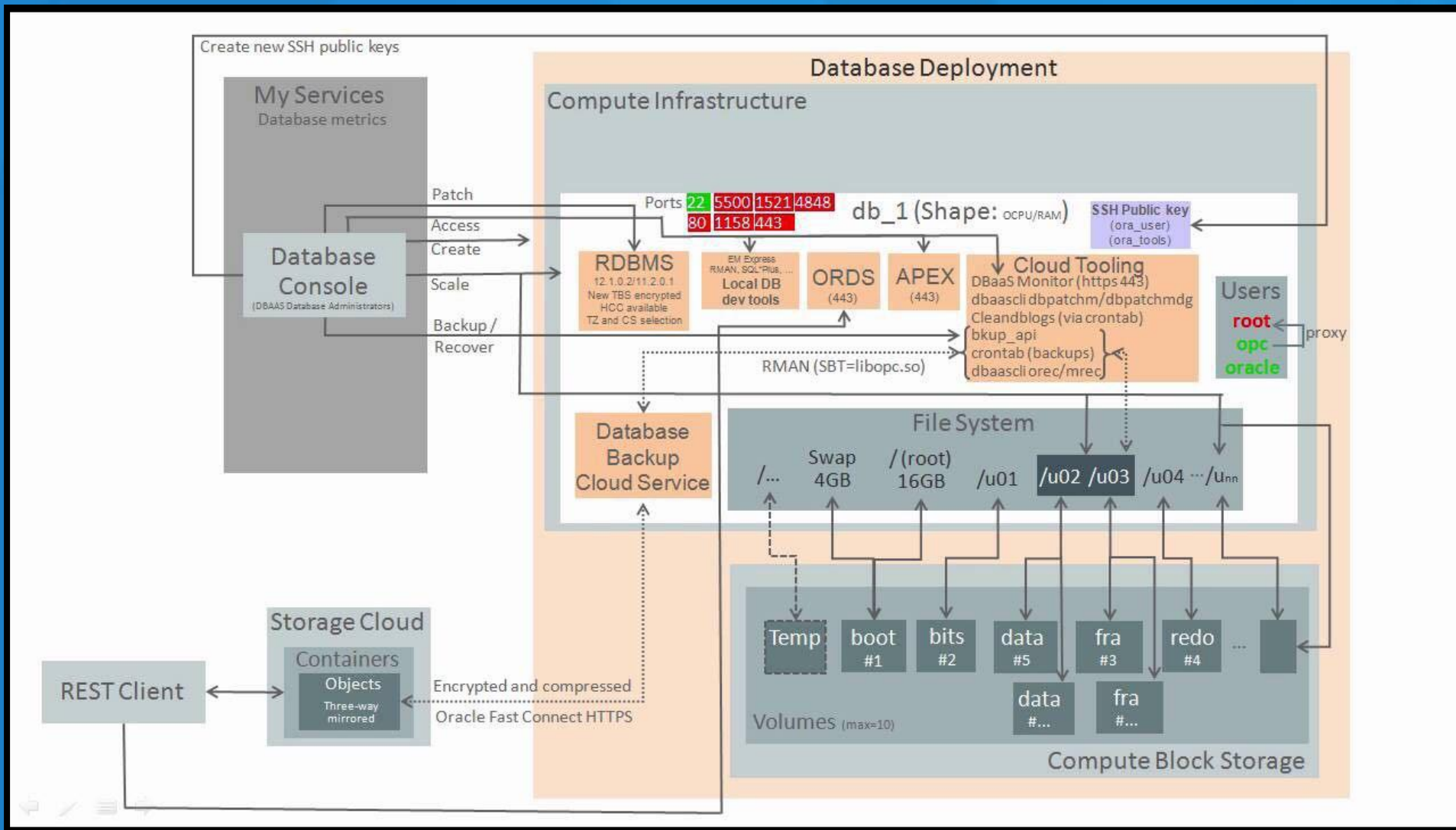
Resources



Host Name: Cloud-Mig12c
Public IP: 129.144.149.23
SID: PRODDB

OCPUs: 1
Memory: 7.5 GB
Storage: 150 GB

Architecture Diagram (Oracle Database Cloud single-instance service components)



“On-Prem”

Software Edition:
Standard,
Enterprise,
Express..

Oracle Solutions
(Options): RAC,
Data Guard,
Golden Gate..

Packs:
Partitioning,
Data Masking,
Diagnostics..

Topic: Software Edition On-Premises Database vs. Cloud

“Cloud”

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OCLOUD9_SM_PLATFORM_...

Provision New Oracle Database Cloud Service

Cancel

Service Details Confirmation

Next

Service
Provide basic service instance information.

* Service Name ?

Description ?

* Subscription Type ?

* SSH Public Key Edit ?

* Software Release ?

* Software Edition ?

- Standard Edition
- Enterprise Edition**
- Enterprise Edition - High Performance
- Enterprise Edition - Extreme Performance

Topic: Software Edition On-Premises Database vs. Cloud

“Cloud”

* Software Edition

Enterprise Edition

Standard Edition

Enterprise Edition

Enterprise Edition - High Performance

Enterprise Edition - Extreme Performance

Topic: Software Edition On-Premises Database vs. Cloud

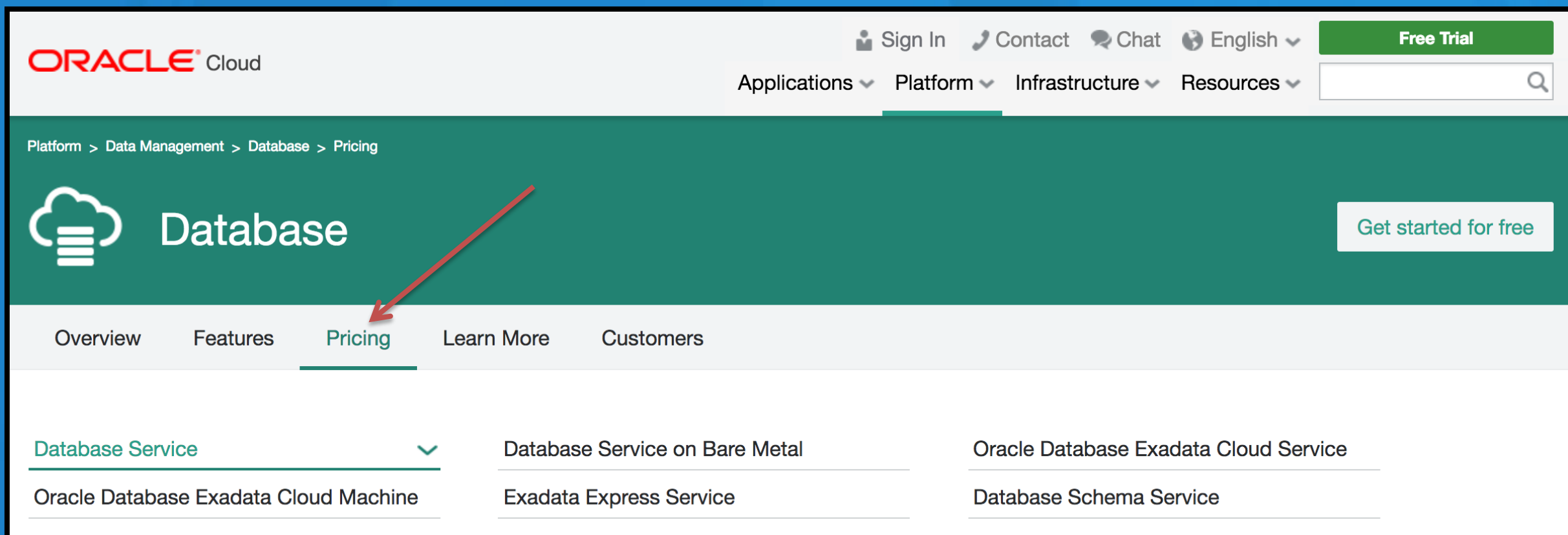


Edition	Included Options	Included Packs
Standard	None	None
Enterprise	None	None
Enterprise – High Performance	Advanced Analytics, Advanced Compression, Advanced Security, Database Vault, Label Security, Multitenant, OLAP, Partitioning, Real Application Testing, Spatial and Graph	Cloud Management for Oracle Database, Database Lifecycle Management, Data Masking and Subsetting, Diagnostics, Tuning
Enterprise – Extreme Performance	Active Data guard, Advanced Analytics, Advanced Compression, Advanced Security, Database In-memory, Database Vault, Label Security, Multitenant, OLAP, Partitioning, Real Application Clusters, Real Application Testing, Spatial and Graph	Cloud Management for Oracle Database, Database Lifecycle Management, Data Masking and Subsetting, Diagnostics, Tuning

“Pricing On-Prem”

DO NOT EXIST

“Pricing On Cloud”: https://cloud.oracle.com/en_US/database/pricing



The screenshot shows the Oracle Cloud website's pricing page for the Database. The top navigation bar includes 'ORACLE Cloud', 'Sign In', 'Contact', 'Chat', 'English', and a 'Free Trial' button. Below this is a search bar and a navigation menu with 'Applications', 'Platform', 'Infrastructure', and 'Resources'. The breadcrumb trail reads 'Platform > Data Management > Database > Pricing'. The main header features a cloud icon, the word 'Database', and a 'Get started for free' button. A red arrow points to the 'Pricing' tab in the sub-navigation menu. Below the menu, a dropdown menu is open, displaying a list of database services: 'Database Service', 'Oracle Database Exadata Cloud Machine', 'Database Service on Bare Metal', 'Exadata Express Service', 'Oracle Database Exadata Cloud Service', and 'Database Schema Service'.

ORACLE Cloud

Sign In Contact Chat English

Free Trial

Applications Platform Infrastructure Resources

Platform > Data Management > Database > Pricing

Database

Get started for free

Overview Features **Pricing** Learn More Customers

Database Service

Oracle Database Exadata Cloud Machine

Database Service on Bare Metal

Exadata Express Service

Oracle Database Exadata Cloud Service

Database Schema Service

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Installation


Type of Operation	On-Premises Database	Database Deployment Database
Installation	Manual <ul style="list-style-type: none">• Oracle Database 11g or 12c• Database Creation	Automatic <ul style="list-style-type: none">• Oracle Database 11g or 12c• Pre-created Database

The major differences between on-premises databases and database deployment database:

Oracle Database 12c

Type of Operation	On-Premises Database	Database Deployment Database
Oracle Database 12c	Non-CDBs and CDBs	Only CDBs

Oracle Database 12c



Provision New Oracle Database Cloud Service

Service **Details** Confirmation

Previous Cancel

Next

Service Details
Provide details for this Oracle Database Cloud Service instance.

Service Configuration

* Compute Shape OC3 - 1 OCPU, 7.5 GB RAM

* Timezone OC3 - 1 OCPU, 7.5 GB RAM

OC4 - 2 OCPU, 15 GB RAM
 OC5 - 4 OCPU, 30 GB RAM
 OC6 - 8 OCPU, 60 GB RAM

Recovery Configuration

* Backup Destination Both Cloud Storage and Local Storage

* Cloud Storage Container

* Cloud Storage Username

* Cloud Storage Password

Create Cloud Storage Container

Total Estimated Monthly Storage (GB) 140

* Create Instance from Existing Backup No

* Character Set AL32UTF8 - Unicode Univ

* National Character Set AL16UTF16 - Unicode UTI

Enable Oracle GoldenGate

Include "Demos" PDB

Database Configuration

* Usable Database Storage (GB) 25

Total Data File Storage (GB) 88.5

* Administration Password

* Confirm Password

* DB Name (SID) ORCL

* PDB Name PDB1

数据驱动 成就未来

Oracle Database 12c

Database Configuration

* Usable Database Storage (GB)

Total Data File Storage (GB)

* Administration Password ?

* Confirm Password ?

* DB Name (SID) ?

* PDB Name ?

The major differences between on-premises databases and database deployment database:

Location for Database Files and Backups

Type of Operation	On-Premises Database	Database Deployment Database
Location for database files and Backups	Manual	Automatic

Database Deployment: storage volumes and file system layout of a newly created database deployment on Oracle Database Cloud - Database as a Service (File System Mount Description).

Storage Volume	Description
bits	30 GB volume completely allocated to /u01 on the virtual machine. 21 GB volume allocated to the following file system mounts on the virtual machine:
boot	<ul style="list-style-type: none"> • / (root) • /boot • swap space
data	GB size equal to the value provided in the Usable Data Storage field during the database deployment creation process, with a minimum of 11 GB. This volume is completely allocated to /u02 on the virtual machine. If backups are being configured, GB size equal to 1.7 times the size of the data volume
fra	If backups are not being configured, GB size equal to 0.1 times the size of the data volume, with a minimum of 7 GB. Allocated to /u03
redo	10GB Volume completely allocated to /u04 on the virtual machine.

Location for Database Files and Backups of a

Database Deployment: storage volumes and file system layout of a newly created database deployment on Oracle Database Cloud - Database as a Service (File System Mount Description).

File System	Mount Description
swap	Swap space; 4 GB allocated from the boot Compute Cloud storage volume.
/(root)	Operating system files; 15.8 GB allocated from the boot Compute Cloud storage volume.
/boot	Operating system kernel; 200 MB allocated from the boot Compute Cloud storage volume.
/u01	Oracle product software; the entire bits Compute Cloud storage volume.
/u02	Oracle Database data storage; the entire data Compute Cloud storage volume.
/u03	Database backup storage; the entire FRA Compute Cloud storage volume.
/u04	Database redo logs; the entire redo Compute Cloud storage volume.

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

OS user and group

Type of Operation	On-Premises Database	Database Deployment Database
OS user and group	oracle user oinstall group	oracle & opc users oinstall group

The major differences between on-premises databases and database deployment database:

Types of server connection

Type of Operation	On-Premises Database	Database Deployment Database
Types of server connection	All types (password, SSH ...)	SSH

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Storage allocation

Type of Operation	On-Premises Database	Database Deployment Database
Storage allocation	Manual Unix Commands	GUI tool: Oracle Database Cloud Service Console

Cloud Storage allocation

Database Configuration

* Usable Database Storage (GB)

Total Data File Storage (GB) ←

* Administration Password

* Confirm Password

* DB Name (SID)

* PDB Name

Backup and Recovery Configuration

* Backup Destination

* Cloud Storage Container

* Cloud Storage Username

* Cloud Storage Password

Create Cloud Storage Container

Total Estimated Monthly Storage (GB) ←

* Create Instance from Existing Backup

* Character Set

* National Character Set

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Tablespace encryption

Type of Operation	On-Premises Database	Database Deployment Database
Tablespace encryption	None by default	Default encryption (TDE) for user-defined tablespaces: initialization parameter: encrypt_new_tablespaces = cloud_only

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Backups

Type of Operation	On-Premises Database	Database Deployment Database
Backups	Manual or manual scheduling: * OS commands * RMAN> backup	API : bkup_api GUI tool: Oracle Database Cloud Service Console

API: bkup_api

Home / Cloud / Platform as a Service (PaaS) / Database Cloud Service (DBaaS)

Using Oracle Database Cloud Service

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- Title and Copyright Information
- + Preface
- + **1 Getting Started with Database Cloud Service**
- + 2 Managing the Database Cloud Service Life Cycle
- + 3 Managing Network Access to Database Cloud Service

Creating an On-Demand Backup by Using the bkup_api Utility

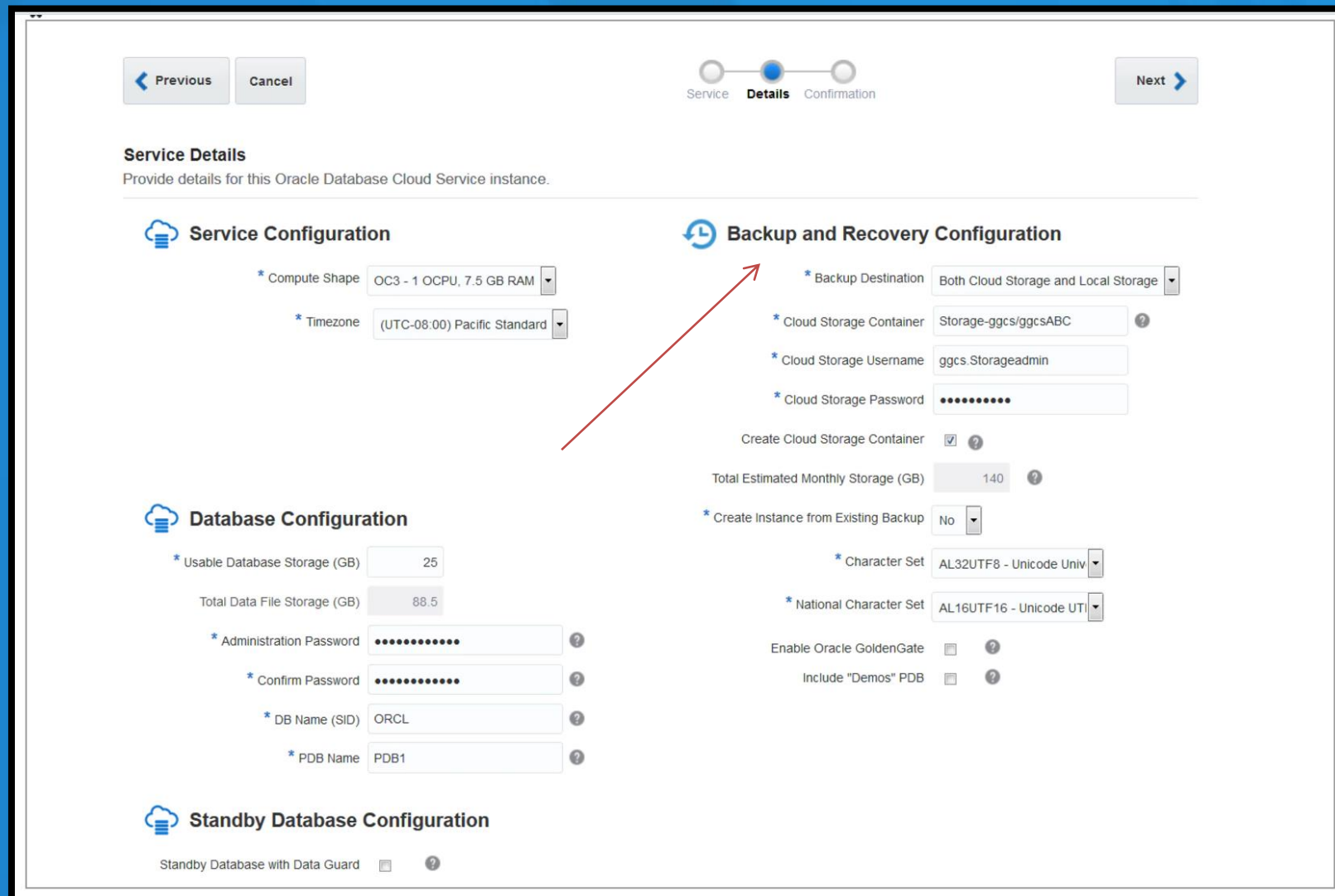
You can use the `bkup_api` utility to create an on-demand backup of a database deployment hosting a single-instance database or an Oracle Data Guard configuration.

1. Connect as the `opc` user to the compute node. In a Data Guard configuration, connect to the compute node hosting the primary database.

For detailed instructions, see [Connecting to a Compute Node Through Secure Shell \(SSH\)](#).

https://docs.oracle.com/en/cloud/paas/database-dbaas-cloud/csdbi/create-demand-backup-using-bkup_api.html

Backup Configuration using GUI tool: Oracle Database Cloud Service Console



The screenshot shows the 'Service Details' configuration page for an Oracle Database Cloud Service instance. The page is divided into four main sections: Service Configuration, Database Configuration, Backup and Recovery Configuration, and Standby Database Configuration. A red arrow points from the 'Backup and Recovery Configuration' section to the 'Service Configuration' section.

Service Details
Provide details for this Oracle Database Cloud Service instance.

Service Configuration

- * Compute Shape: OC3 - 1 OCPU, 7.5 GB RAM
- * Timezone: (UTC-08:00) Pacific Standard

Database Configuration

- * Usable Database Storage (GB): 25
- Total Data File Storage (GB): 88.5
- * Administration Password: [Redacted]
- * Confirm Password: [Redacted]
- * DB Name (SID): ORCL
- * PDB Name: PDB1

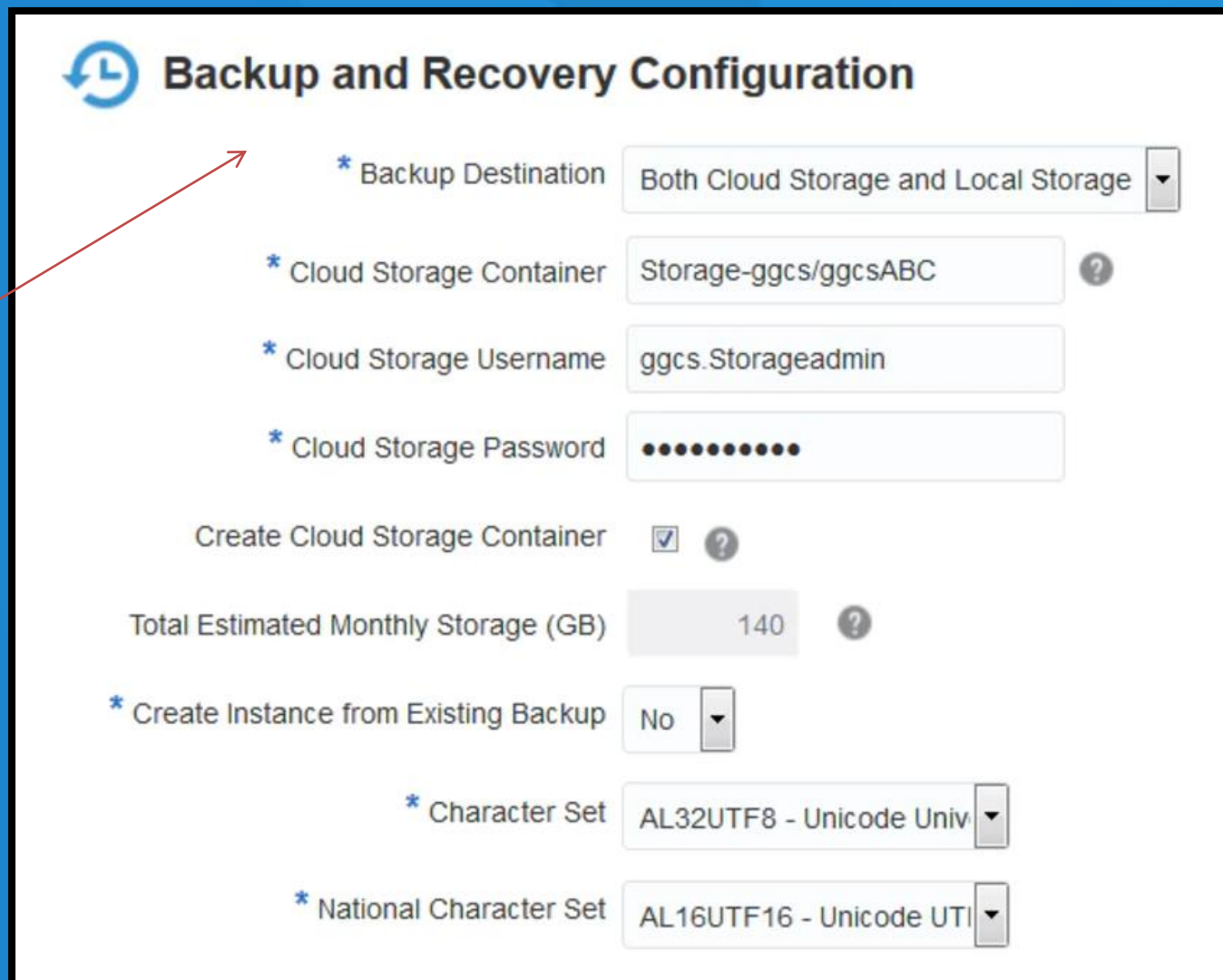
Backup and Recovery Configuration

- * Backup Destination: Both Cloud Storage and Local Storage
- * Cloud Storage Container: Storage-ggcs/ggcsABC
- * Cloud Storage Username: ggcs.Storageadmin
- * Cloud Storage Password: [Redacted]
- Create Cloud Storage Container:
- Total Estimated Monthly Storage (GB): 140
- * Create Instance from Existing Backup: No
- * Character Set: AL32UTF8 - Unicode Univ
- * National Character Set: AL16UTF16 - Unicode UTI
- Enable Oracle GoldenGate:
- Include "Demos" PDB:

Standby Database Configuration

- Standby Database with Data Guard:

Backup Configuration using GUI tool: Oracle Database Cloud Service Console



Backup and Recovery Configuration

* Backup Destination: Both Cloud Storage and Local Storage

* Cloud Storage Container: Storage-ggcs/ggcsABC

* Cloud Storage Username: ggcs.Storageadmin

* Cloud Storage Password:

Create Cloud Storage Container:

Total Estimated Monthly Storage (GB): 140

* Create Instance from Existing Backup: No

* Character Set: AL32UTF8 - Unicode Univ

* National Character Set: AL16UTF16 - Unicode UTI

The major differences between on-premises databases and database deployment database:

Backed up Files

Type of Operation	On-Premises Database	Database Deployment Database
Backed up Files	Database files + controlfiles + SPFILE	All database files + SPFILE + password file and others from /home/oracle/bkup/ dbcfg.spec file OS files from /home/oracle/bkup/ oscfg.spec file

The major differences between on-premises databases and database deployment database:



Recovery






Type of Operation	On-Premises Database	Database Deployment Database
Recovery	RMAN> recover	dbaascli orec

The dbaascli Utility

Home / Cloud / Platform as a Service (PaaS) / Database Cloud Service (DBaaS)

Using Oracle Database Cloud Service

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-  **4 Administering Database Cloud Service**

D The dbaascli Utility

The `dbaascli` utility is provided on Oracle Database Cloud Service deployments to perform a variety of life-cycle and administration operations.

Using the `dbaascli` utility, you can perform operations like:

- Changing the password of the `SYS` user
- Checking the status of the Oracle Data Guard configuration
- Switchover and failover in an Oracle Data Guard configuration

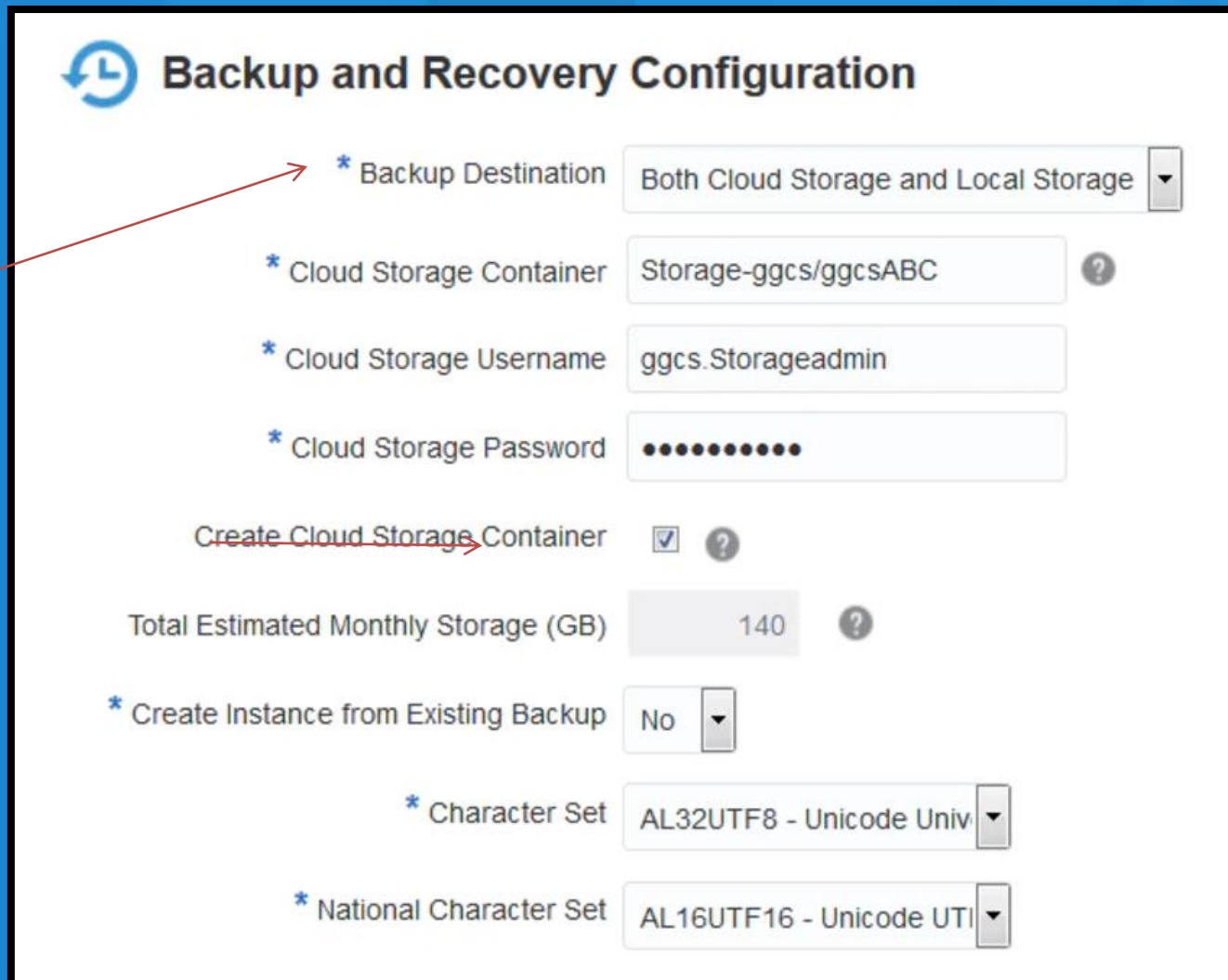
<https://docs.oracle.com/en/cloud/paas/database-dbaas-cloud/csdbi/dbaascli.html>

The major differences between on-premises databases and database deployment database:

Backup destination

Type of Operation	On-Premises Database	Database Deployment Database
Backup destination	Single or Cloud	Dual: <ul style="list-style-type: none">• Local compute node storage• Oracle Storage Cloud Service container

Backup destination, Cloud Dual



Backup and Recovery Configuration

* Backup Destination: Both Cloud Storage and Local Storage

* Cloud Storage Container: Storage-ggcs/ggcsABC

* Cloud Storage Username: ggcs.Storageadmin

* Cloud Storage Password:

~~Create Cloud Storage Container~~ ?

Total Estimated Monthly Storage (GB): 140 ?

* Create Instance from Existing Backup: No

* Character Set: AL32UTF8 - Unicode Univ

* National Character Set: AL16UTF16 - Unicode UTI

A red arrow points from the text 'Backup destination, Cloud Dual' to the 'Backup Destination' dropdown menu.

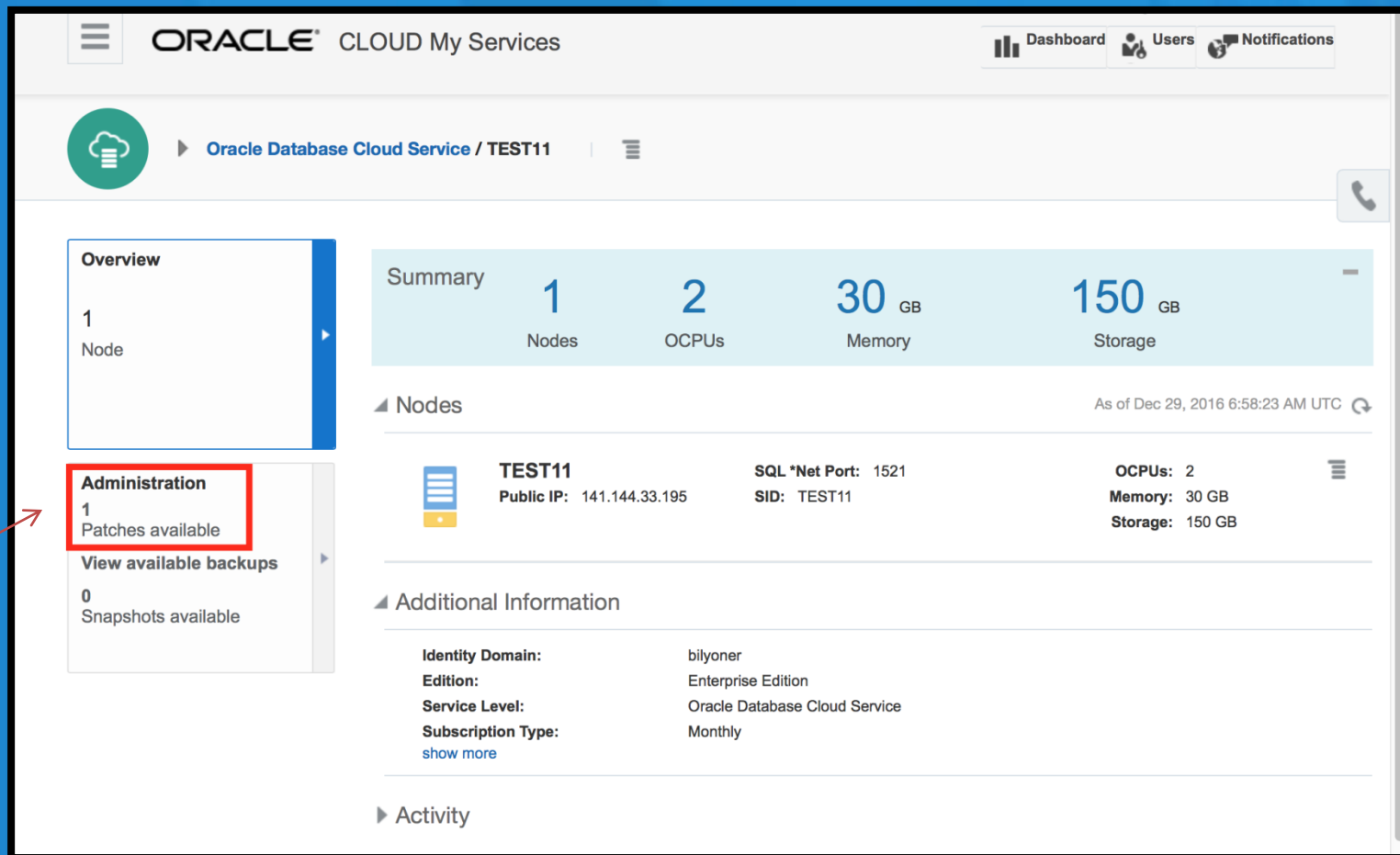
Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Patch Discovery

Type of Operation	On-Premises Database	Database Deployment Database
Patch Discovery	<ul style="list-style-type: none">•None•Oracle Support•EM Cloud Control	GUI tool: Oracle Database Cloud Service console

Patch Discovery using GUI tool: Oracle Database Cloud Service console



ORACLE® CLOUD My Services

Dashboard Users Notifications

Oracle Database Cloud Service / TEST11

Overview

- 1 Node

Administration

- 1 Patches available
- View available backups
- 0 Snapshots available

Summary

1	2	30 GB	150 GB
Nodes	OCPUs	Memory	Storage

Nodes As of Dec 29, 2016 6:58:23 AM UTC

TEST11

Public IP: 141.144.33.195	SQL *Net Port: 1521	OCPUs: 2
SID: TEST11		Memory: 30 GB
		Storage: 150 GB

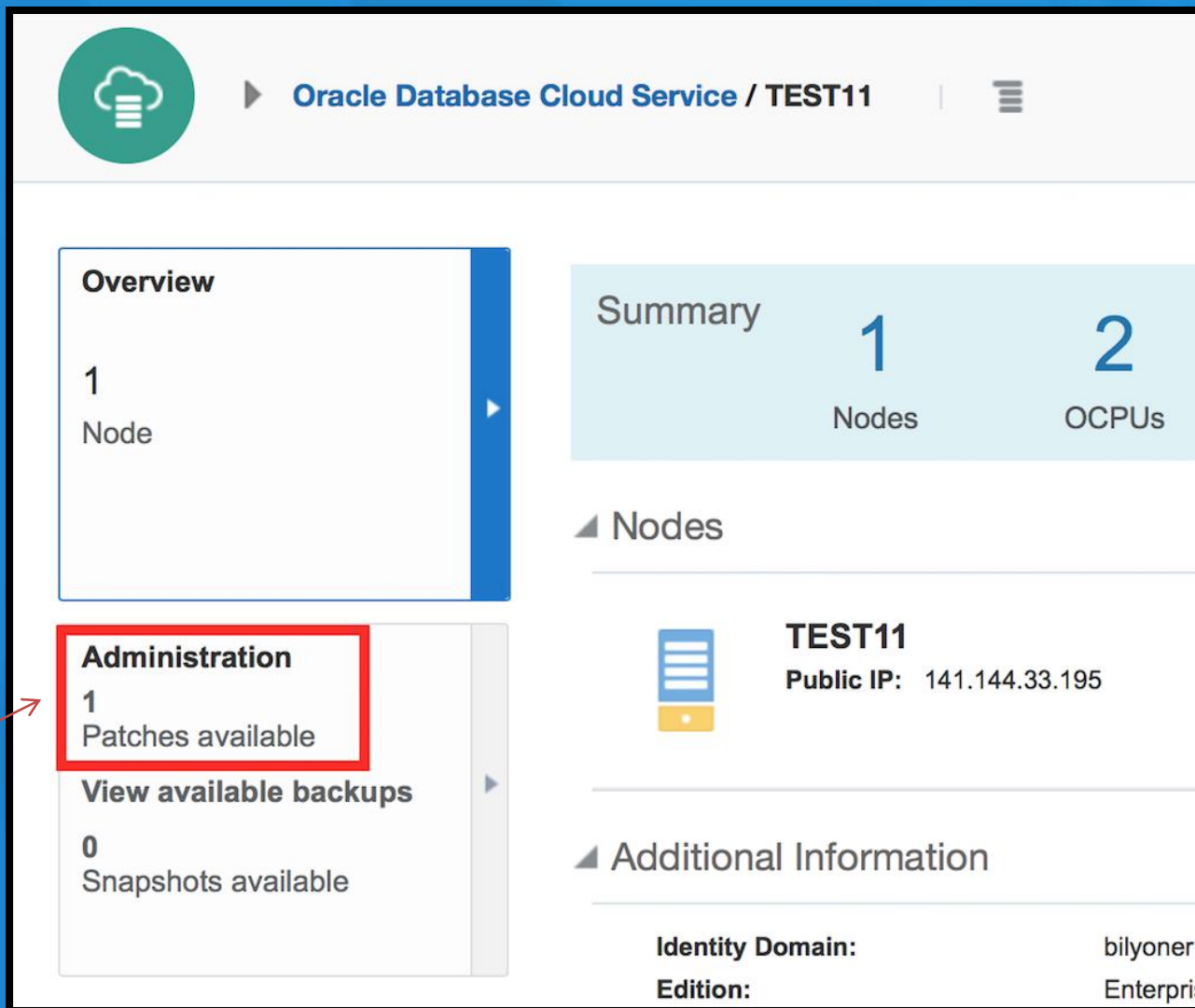
Additional Information

Identity Domain:	bilyoner
Edition:	Enterprise Edition
Service Level:	Oracle Database Cloud Service
Subscription Type:	Monthly

[show more](#)

Activity

Patch Discovery using GUI tool: Oracle Database Cloud Service console



The screenshot displays the Oracle Database Cloud Service console for a specific instance named TEST11. The interface includes a navigation menu on the left with sections for Overview, Administration, and Snapshots. The Administration section is highlighted with a red box, and a red arrow points to it from the text on the left. The main content area shows a Summary card with 1 Node and 2 OCPUs, a Nodes section with a card for TEST11 (Public IP: 141.144.33.195), and an Additional Information section with details like Identity Domain and Edition.

Oracle Database Cloud Service / TEST11

Overview

1 Node

Administration

1 Patches available

View available backups

0 Snapshots available

Summary

1 Nodes

2 OCPUs

Nodes

TEST11

Public IP: 141.144.33.195

Additional Information

Identity Domain: bilyoner

Edition: Enterprise

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Upgrade

Type of Operation	On-Premises Database	Database Deployment Database
Upgrade	<ul style="list-style-type: none">• GUI tool: dbua (Database Upgrade Assistant)• Manually (SQL*Plus)	Node

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Port access

Type of Operation	On-Premises Database	Database Deployment Database
Port access	Automatic configuration via dbca <ul style="list-style-type: none">• EM Express• EM Cloud Control• Listener registration	Automatic configuration via pre-defined security rules to enable when required

Port access On Cloud

Automatic configuration via pre-defined security rules to enable when required

Access Rules Create Rule

You can use access rules to control network access to service components. On this page, you can manage your access rules.

Results per page: 10 9 result(s) as of May 21, 2017 8:31:45 AM UTC

Status	Rule Name	Source	Destination	Ports	Protocol	Description	Rule Type	Actions
	ora_p2_ssh	PUBLIC-INTERNET	DB	22	TCP		DEFAULT	
	ora_p2_http	PUBLIC-INTERNET	DB	80	TCP		DEFAULT	
	ora_p2_https	PUBLIC-INTERNET	DB	443	TCP		DEFAULT	
	ora_p2_httpadmin	PUBLIC-INTERNET	DB	4848	TCP		DEFAULT	
	ora_p2_dbconsole	PUBLIC-INTERNET	DB	1158	TCP		DEFAULT	
	ora_p2_dbexpress	PUBLIC-INTERNET	DB	5500	TCP		DEFAULT	
	ora_p2_dblistener	PUBLIC-INTERNET	DB	1521	TCP		DEFAULT	
	sys_infra2db_ssh	PAAS-INFRA	DB	22	TCP	DO NOT MODIFY: Permit P...	SYSTEM	<div style="border: 1px solid #ccc; padding: 2px;"> Enable Disable Delete </div>
	ora_trusted_hosts_db...	127.0.0.1/32	DB	1521	TCP	DO NOT MODIFY: A secrete ...	SYSTEM	

Topic: Summary of Major Differences

The major differences between on-premises databases and database deployment database:

Monitoring tools

Type of Operation	On-Premises Database	Database Deployment Database
Monitoring tools	<ul style="list-style-type: none">• EM Express• EM Cloud Control• SQL Developer	<ul style="list-style-type: none">• DBaaS Monitor• EM Express• EM Cloud Control• SQL Developer

For More Information

About Oracle Database Cloud Service

<https://cloud.oracle.com/database>

Oracle Database Cloud 30-Day Free Trial

<https://cloud.oracle.com/database>

Join the Conversation



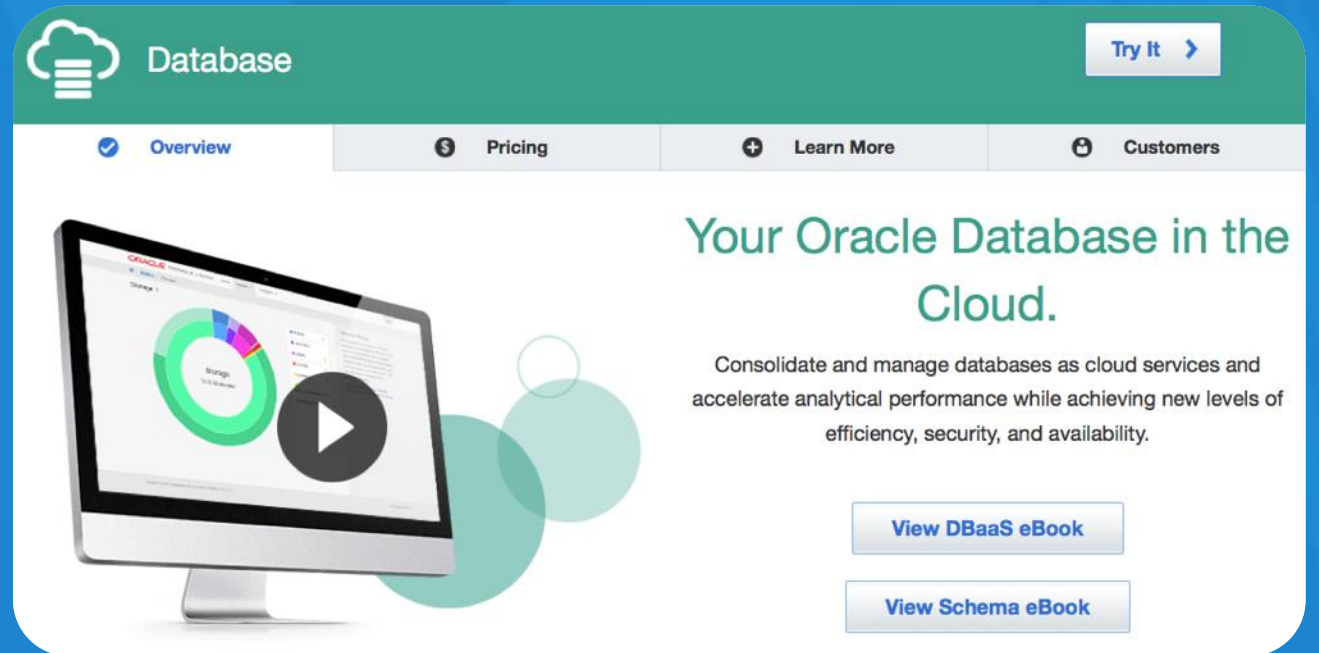
<https://blogs.oracle.com/dbaas>



www.facebook.com/OracleCloudComputing



@OracleCloudZone #OracleCloud



The screenshot shows the Oracle Database Cloud Service landing page. At the top, there's a green header with a cloud icon and the word "Database". To the right is a "Try It" button. Below the header is a navigation bar with "Overview" (checked), "Pricing", "Learn More", and "Customers". The main content area features a large image of a computer monitor displaying a dashboard with a circular chart and a play button. To the right of the monitor, the text reads "Your Oracle Database in the Cloud." followed by a paragraph: "Consolidate and manage databases as cloud services and accelerate analytical performance while achieving new levels of efficiency, security, and availability." Below this text are two buttons: "View DBaaS eBook" and "View Schema eBook".





Joel Pérez's Direct Contact:

➤ ACE Director Profile:

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➤ OCM Profile:

<http://education.oracle.com/education/otn/JoelPerez.htm>

➤ Linked in:

https://apex.oracle.com/pls/otn/f?p=19297:4:1711390987197101::NO:4:P4_ID:157

➤ www.Enmotech.com



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