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# Oracle Business Intelligence Publisher on Java Cloud Services

# Oracle BI Publisher on Java Cloud Service

## Highlights

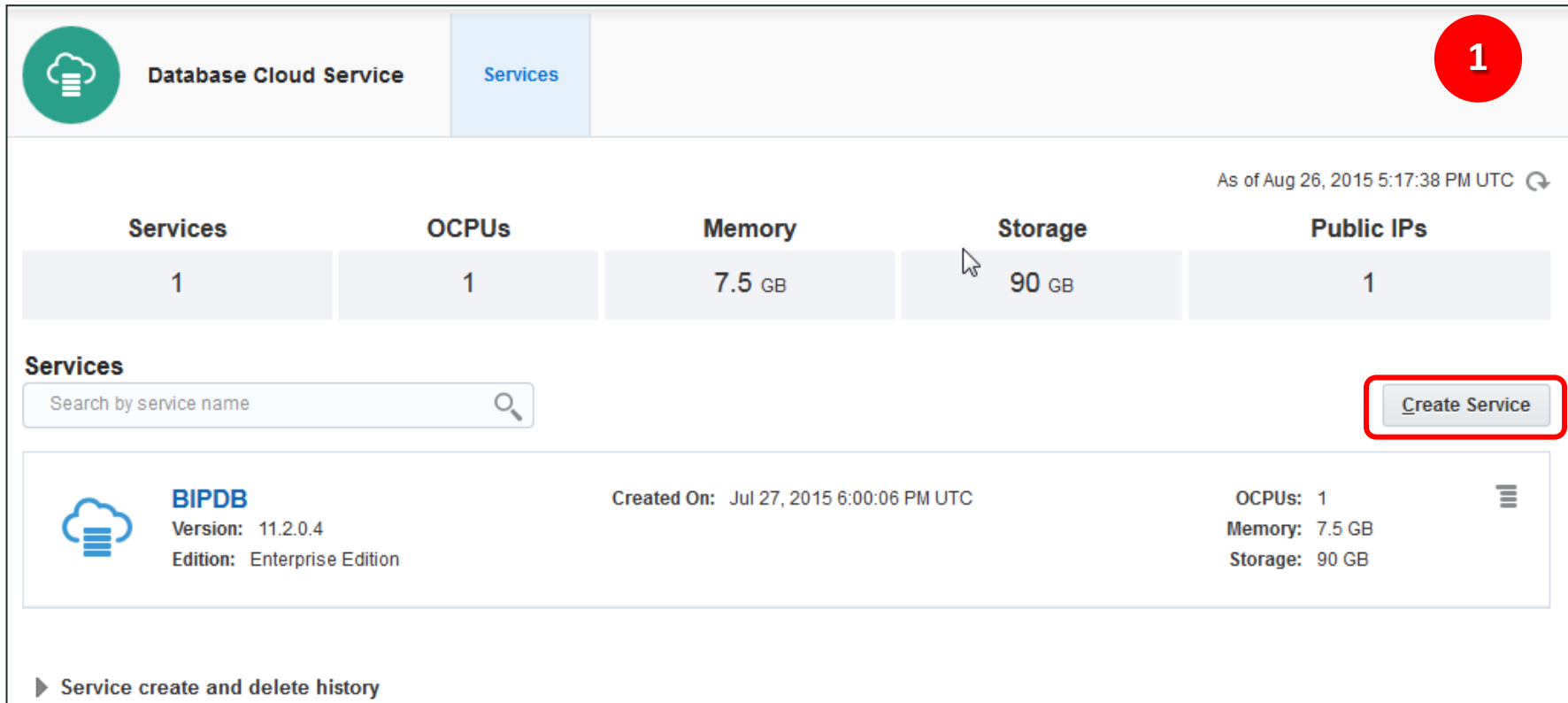
- Like any other Java Application, BI Publisher can be deployed on the WebLogic Server on JCS
- Flexibility to scale up on demand by selecting Compute Shape (OCPU, Memory, Storage)
- Supports Virtual Image Option
- Leverage BI Publisher on-premise license in Oracle Public Cloud



# Deploying BI Publisher on JCS

## Steps on Cloud Dashboard Page

### 1. Create DBaaS instance



The screenshot shows the Oracle Database Cloud Service dashboard. At the top, there is a navigation bar with the 'Database Cloud Service' logo and a 'Services' tab. A red circle with the number '1' is positioned in the top right corner. Below the navigation bar, a summary table displays the following metrics:

Services	OCPUs	Memory	Storage	Public IPs
1	1	7.5 GB	90 GB	1

Below the summary table, there is a 'Services' section with a search bar labeled 'Search by service name'. A 'Create Service' button is highlighted with a red rectangle. Below the search bar, a service card for 'BIPDB' is displayed, showing the following details:

- BIPDB**
- Version: 11.2.0.4
- Edition: Enterprise Edition
- Created On: Jul 27, 2015 6:00:06 PM UTC
- OCPUs: 1
- Memory: 7.5 GB
- Storage: 90 GB

At the bottom left, there is a link for 'Service create and delete history'.

# Deploying BI Publisher on JCS

## Steps on Cloud Dashboard Page

- ✓ Use Oracle Database Cloud Service – Virtual Image Option with Oracle Database 11g Release 2

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Provision New Database Cloud Service

2

Create Database Cloud Service Instance

Subscription Release Edition Details Confirmation

Cancel

Subscription Type

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

Service Level

- Oracle Database Cloud Service  
Oracle Database software pre-installed on Oracle Cloud Virtual Machine. Database instances are created for you using configuration options provided. Additional cloud tooling is available for backup, recovery and patching.
- Oracle Database Cloud Service - Virtual Image**  
Oracle Database software pre-installed on an Oracle Cloud Virtual Machine. Database instances are created by you manually or using DBCA. No additional cloud tooling is 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

Provision New Database Cloud Service

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Create Database Cloud Service Instance

Subscription Release Edition Details Confirmation

Next

Previous Cancel

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  
Installed on Oracle Linux 6.4
- Oracle Database 12c Release 1  
Oracle Database Version 12.1.0.2  
Installed on Oracle Linux 6.4

# Deploying BI Publisher on JCS

## Steps on Cloud Dashboard Page

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**Create Database Cloud Service Instance**

Subscription Release **Edition** Details

Previous Cancel

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

- Standard Edition** (Details)
  - Oracle Database 11g Release 2  
Installed on Oracle Linux 6.4
- Enterprise Edition** (Details) 
  - Oracle Database 11g Release 2  
Installed on Oracle Linux 6.4
- Enterprise Edition - High Performance** (Details)
  - Oracle Database 11g Release 2  
Installed on Oracle Linux 6.4
- Enterprise Edition - Extreme Performance** (Details)
  - Oracle Database 11g Release 2  
Installed on Oracle Linux 6.4

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**Create Database Cloud Service Instance**

Subscription Release Edition **Details** Confirmation

Previous Cancel Next

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

**Service Configuration**

- \* Service Name
- Description
- \* Shape OC3 - 1 OCPU, 7.5 GB RAM
- \* SSH Public Key  Edit

# Deploying BI Publisher on JCS

## Steps on Cloud Dashboard Page

### 2. Create JCS instance

**NOTE:** To create an Oracle Java Cloud Service instance, use the REST API for Oracle Java Cloud Service.

**Do not use the JCS UI to create the instance.**

The Wizard does not allow an option to specify the MWHOME partition size, whereas REST API allows us to specify this. The default size created by the Wizard is generally insufficient for BI Publisher deployments. **The GUI shown here is only to demonstrate the JCS instance creation.**

Check the steps in [Oracle By Example](#) Tutorial under "Setting up your environment", "Creating an Oracle Java Cloud Service instance" to create JCS instance using REST API

The screenshot shows the Oracle Java Cloud Service dashboard. At the top, there's a navigation bar with 'ORACLE Java Cloud Service', 'Services', 'Notifications', 'Users', and 'Consoles'. A red circle with the number '1' is in the top right corner. Below the navigation bar, there's a summary card for 'Oracle Java Cloud Service' with 'Identity Domain: usoraclebip'. A table shows resource usage: Services (2), OCPUs (2), Memory (15 GB), Storage (124 GB), and Public IPs (2). Below this is a 'Services' section with a search bar and a 'Create Service' button highlighted with a red box. Two service instances are listed: BIPQAWL1 and BIPDEVWL1, both with 1 node, 7.5 GB memory, and 62 GB storage. A 'Live Chat | Contact Us' button is on the right side.

Services	OCPUs	Memory	Storage	Public IPs
2	2	15 GB	124 GB	2

Service Name	Version	Edition	JDK	Nodes	Created On	OCPUs	Memory	Storage
BIPQAWL1	11.1.1.7.0	Enterprise Edition	1.7.0_80	1	Jul 29, 2015 3:14:09 AM UTC	1	7.5 GB	62 GB
BIPDEVWL1	11.1.1.7.0	Enterprise Edition	1.7.0_80	1	Jul 29, 2015 2:58:07 AM UTC	1	7.5 GB	62 GB

# Deploying BI Publisher on JCS

## Steps on Cloud Dashboard Page

- ✓ Use **Oracle Java Cloud Service – Virtual Image Option**

### Note

- It will not support Backup & Restoration
- No automatic patching and upgrades

Check the steps in [Oracle By Example](#) Tutorial under "Setting up your environment", "Creating an Oracle Java Cloud Service instance" to create JCS instance using REST API

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Cancel Subscription Release Edition Details Confirmation Next >

**Subscription Type**  
Select the service level and billing frequency for your service.

**Service Level**

- Oracle Java Cloud Service - Virtual Image**  
Oracle WebLogic Server installed on Oracle Cloud virtual machines.  
No additional cloud tooling available.
- Oracle Java Cloud Service**  
Oracle WebLogic Server installed on Oracle Cloud virtual machines.  
Additional cloud tooling available for tasks such as backup, restoration, scaling, and patching.

**Billing Frequency**

- Hourly**  
Pay for the number of hours used.
- Monthly**  
Pay one price for the entire month irrespective of the number of hours used.



# Deploying BI Publisher on JCS

## Steps on Cloud Dashboard Page

- ✓ Select **Oracle WebLogic Server 11g (11.1.1.7)**

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Provision New Java Cloud Service 3

Previous Cancel Subscription **Release** Edition Details Confirmation Next

**Software Release**  
Select the software release to be installed on your service.

- Oracle WebLogic Server 11g (11.1.1.7)**  
WebLogic Server 10.3.6.0.12, Fusion Middleware 11.1.1.7  
Installed on Oracle Linux 6.4
- Oracle WebLogic Server 12c (12.1.3.0.4)**  
WebLogic Server and Fusion Middleware 12.1.3.0.4  
Installed on Oracle Linux 6.4

Check the steps in [Oracle By Example Tutorial](#) under "Setting up your environment", "Creating an Oracle Java Cloud Service instance" to create JCS instance using REST API

# Deploying BI Publisher on JCS

## Steps on Cloud Dashboard Page

Check the steps in [Oracle By Example](#) Tutorial under "Setting up your environment", "Creating an Oracle Java Cloud Service instance" to create JCS instance using REST API

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Subscription Release **Edition** Details Confirmation

Previous Cancel

**Software Edition**  
Select the edition of your selected software release to be installed on your service.

- Standard Edition** (Details)  
 Oracle WebLogic Server 11g (11.1.1.7)  
Installed on Oracle Linux 6.4
- Enterprise Edition** (Details)  
 Oracle WebLogic Server 11g (11.1.1.7)  
Installed on Oracle Linux 6.4
- Enterprise Edition with Coherence** (Details)  
 Oracle WebLogic Server 11g (11.1.1.7)  
Installed on Oracle Linux 6.4

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Subscription Release Edition **Details** Confirmation

Previous Cancel Next

**Service Details**  
Provide details for your service.

**Service Configuration**

- \* Service Name
- Description
- \* Cluster Size: 1
- \* Shape: OC3 - 1 OCPU, 7.5 GB RAM
- \* SSH Public Key  Edit

**Database Configuration**

- \* Name

**Load Balancer**

- \* Provision Load Balancer: No

**WebLogic**

- \* Username
- \* Password
- \* Confirm Password
- Deploy Sample Application

# Deploying BI Publisher on JCS

## Steps on Disk (File System)

### 1. Set up RCU on DBaaS

- ✓ Copy RCU
- ✓ Run RCU

### 2. Install BI Publisher

- ✓ Copy BI Installer in JCS instance
- ✓ Run Installer
- ✓ Use Software Only install

### 3. Configure BI Publisher

- ✓ Extend Weblogic Domain
- ✓ Configure Policy Store
- ✓ Configure JMS
- ✓ Configure Security

# BI Publisher on JCS

## Certification Details

- Certification Information for BI Publisher 11.1.1.9 against the products on Cloud:
  - JCS and DBaaS on Oracle Linux 6.4 (Certified)
  - Weblogic 10.3.6 (Certified)
  - DBaaS on Oracle Database 11.2.0.4 (Certified)
  - FMW 11.1.1.7 (Certified)

# Sizing Guidelines for BI Publisher on JCS

## Concurrent User Scenario

### 1 OCPU on JCS can execute

2500 Small Reports (2 Pages)  
500 Medium Reports (25 Pages)  
100 Large Reports ( > 100 pages)

OR

### 1 OCPU on JCS can execute

2500 Small Reports (2 Pages)  
500 Medium Reports (25 Pages)  
50 Large Reports ( > 100 pages)  
1 Extremely Large Report ( > 100,000 rows)

BIP for JCS - BI Publisher

Target Platform: Cloud - PaaS Template + Middle Tier: Oracle Public Cloud (JaaS) i

Level of Confidence: Strong

Version: 20160426

Question Tree Navigation

- ✓ Select BIP Use Case Scenario
  - ↳ Concurrent Usage
    - ✓ Number of users with small report (2 Pages)
      - ↳ 2500
    - ✓ Number of users with medium report (25 pages)
      - ↳ 500
    - ✓ Number of users with large report (over 100 Pag)
      - ↳ 100
    - ✓ Number of users with extremely large report (10)
      - ↳ 0

Number of users with extremely large report (100,000 rows and more) ?

Slider: 0 to 100000

Set exact value to: 0 Apply

\* Default = 1

ZOOM

Debug

Refresh Diag

Middle Tier

BIP Mid Tier

0.97 Cor

n/a Mm

n/a Dsk

87.5K MVV

BI Publisher

# Sizing Guidelines for BI Publisher on JCS

## Bursting Scenario

### 1 OCPU on JCS can execute

10000 Reports in 60 minutes with  
70% small reports (10 pages)  
21% medium reports (50 pages)  
9 % large reports (over 100 pages)

The screenshot displays the configuration interface for BI Publisher on JCS. At the top, the 'Target Platform' is set to 'Cloud - PaaS Template' and the 'Middle Tier' is 'Oracle Public Cloud (JaaS)'. A 'Level of Confidence' slider is set to 'Strong'. The 'Question Tree Navigation' on the left shows a tree structure with the following settings:

- Select BIP Use Case Scenario
- Bursting Usage
  - Total Number of Reports to be generated
    - 100000
  - Time to Generate Reports in Minutes
    - 60
  - Small reports (10 pages) - Distribution %
    - 70
  - Medium reports (50 pages) - Distribution %
    - 21
  - Large reports (over 100 pages) - Distribution %
    - 9

The 'Large reports (over 100 pages) - Distribution %' panel on the right shows a slider set to 9, with a text input field 'Set exact value to' containing '9' and an 'Apply' button. Below this, a monitoring dashboard shows resource usage for the 'Middle Tier' and 'BIP Mid Tier':

Resource	Usage
Middle Tier	0.98 CPU
BIP Mid Tier	11/23 MB
BI Publisher	87.8K MV

Additional controls include 'ZOOM', 'Debug', and 'Refresh Diag' buttons.

# Sizing Guidelines for BI Publisher on JCS

## Storage Space

**Storage Space will be required to manage Repository and Temporary Space allocation for Report Generation, JMS, etc.**

A generic best practices recommendation is to include:

- A minimum of **20 GB of Disk Space for Repository**, and
- A minimum of **1 GB of Temporary Space** for Report Generation and JMS.

# BI Publisher on JCS

## For additional information:

- **Oracle By Example (Provisioning Oracle Business Intelligence Publisher on Oracle Java Cloud Service):**  
[https://apexapps.oracle.com/pls/apex/f?p=44785:24:0:::24:P24\\_CONTENT\\_ID,P24\\_PREV\\_PAGE:11235,1](https://apexapps.oracle.com/pls/apex/f?p=44785:24:0:::24:P24_CONTENT_ID,P24_PREV_PAGE:11235,1)
- **JCS Certification Link:**  
[https://docs.oracle.com/cloud/latest/jcs\\_gs/JSCUG/GUID-B4A53E27-B580-492D-80B0-F909F470C7D4.htm#JSCUG-GUID-B4A53E27-B580-492D-80B0-F909F470C7D4](https://docs.oracle.com/cloud/latest/jcs_gs/JSCUG/GUID-B4A53E27-B580-492D-80B0-F909F470C7D4.htm#JSCUG-GUID-B4A53E27-B580-492D-80B0-F909F470C7D4)
- **Oracle Database Cloud Service (DBaaS) :**  
<https://cloud.oracle.com/database>
- **Oracle Java Cloud Service (JCS):**  
<https://cloud.oracle.com/java>
- **Oracle Cloud Storage Service:**  
<https://cloud.oracle.com/storage>



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