Oracle® Cloud

Migrating Oracle Business Intelligence Cloud Service Instances to Oracle Cloud Infrastructure
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Preface

Learn how to migrate from Oracle Business Intelligence Cloud Service to Oracle Analytics Cloud on Oracle Cloud Infrastructure.

Topics:
• Audience
• Documentation Accessibility
• Related Documents
• Conventions

Audience

*Migrating Oracle Business Intelligence Cloud Service to Oracle Cloud Infrastructure* is intended for administrators who migrate services and content from Oracle Business Intelligence Cloud Service to Oracle Analytics Cloud on Oracle Cloud Infrastructure.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

These related Oracle resources provide more information.
• Oracle Cloud http://cloud.oracle.com
• Getting Started with Oracle Cloud
• Getting Started with Oracle Analytics Cloud
• Administering Oracle Analytics Cloud
• Preparing Data in Oracle Analytics Cloud
• Visualizing Data and Building Reports in Oracle Analytics Cloud
Conventions

Conventions used in this document are described in this topic.

Text Conventions

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>

Videos and Images

Your company can use skins and styles to customize the look of the Oracle Analytics Cloud, dashboards, reports, and other objects. It is possible that the videos and images included in the product documentation look different than the skins and styles your company uses.

Even if your skins and styles are different than those shown in the videos and images, the product behavior and techniques shown and demonstrated are the same.
1

Learn About Migrating to Oracle Cloud Infrastructure

Learn about how to migrate from Oracle BI Cloud Service to Oracle Analytics Cloud on Oracle Cloud Infrastructure.

Topics:
- About the Migration Scope
- About the Migration Task Flow
- About the Migration Tooling

About the Migration Scope

Before migrating from Oracle BI Cloud Service to Oracle Analytics Cloud on Oracle Cloud Infrastructure, consider the scope and constraints of this migration path.

Migration scenarios covered in this Guide

<table>
<thead>
<tr>
<th>Migration Scenario</th>
<th>Source Oracle BI Cloud Service</th>
<th>Target Oracle Analytics Cloud</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloud Service</td>
<td>Oracle BI Cloud Service Latest version (19.2.2 or later)</td>
<td>Oracle Analytics Cloud Latest version (105.3 or later)</td>
</tr>
<tr>
<td>Cloud Database</td>
<td>Oracle Database Cloud Schema Service on Oracle Cloud Infrastructure Classic Or, Oracle Database Cloud Service on Oracle Cloud Infrastructure Classic.</td>
<td>Oracle Database Cloud Service on Oracle Cloud Infrastructure</td>
</tr>
<tr>
<td>Cloud Subscription</td>
<td>Traditional metered subscription or nonmetered subscription to Oracle Cloud</td>
<td>Cloud account subscription to Oracle Analytics Cloud - Enterprise Edition. Either: • Universal Credits • Fixed Oracle Analytics Cloud Subscription</td>
</tr>
<tr>
<td>Identity Management</td>
<td>Traditional identity management through Oracle Cloud Infrastructure Classic Console (previously called My Services)</td>
<td>Oracle Identity Cloud Service</td>
</tr>
</tbody>
</table>

If you're not sure which versions are running in your source and target environments, ask your Oracle representative.
About the Migration Task Flow

You use a snapshot to migrate an Oracle BI Cloud Service instance to Oracle Analytics Cloud on Oracle Cloud Infrastructure. Before you start the migration, you need to prepare and set up a target Oracle Analytics Cloud instance on Oracle Cloud Infrastructure. Here’s what you need to do.

- **Prepare to Migrate**
- **Migrate Your Service**
- **Complete Post-Migration Tasks**

Overview

Prepare to Migrate

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan your new service</td>
<td>Plan your Oracle Analytics Cloud deployment on Oracle Cloud Infrastructure. Think about what you want before you start.</td>
<td>Plan Your Service on Oracle Cloud Infrastructure</td>
</tr>
<tr>
<td>Complete your order and sign in to your Oracle Cloud account</td>
<td>You must have a subscription for Oracle Analytics Cloud (or Oracle Analytics Cloud Subscription) to create services on Oracle Cloud Infrastructure. As Cloud Account Administrator, you can complete all setup tasks.</td>
<td>Sign In For the First Time</td>
</tr>
</tbody>
</table>
Create a service on Oracle Cloud Infrastructure

Create an Oracle Analytics Cloud instance with the required size and shape on Oracle Cloud Infrastructure. If you subscribe through Universal Credits, create the service with Oracle Analytics Cloud. If you have a non-metered subscription, create the service with Oracle Analytics Cloud Subscription.

Verify your service

Verify that your service is up and running and that you can sign in.

Migrate users and roles

Migrate users and roles from your traditional Oracle BI Cloud Service account to Oracle Identity Cloud Service available with your Cloud account.

Reconfigure single sign-on

(Optional) If SAML Single Sign-on (SSO) is configured in your source environment using samlssodocker, set up SSO in your target environment between your identity provider and Oracle Identity Cloud Service.

Integrate Oracle Identity Cloud Service with other identity providers

(Optional) Use Oracle Identity Cloud Service in your target environment to integrate with your identity provider. For example:

- Reconcile Microsoft Active Directory with Oracle Identity Cloud Service
- Configure Oracle Identity Manager and synchronize users with Oracle Identity Cloud Service
- Configure Office 365 users with Oracle Identity Cloud Service

Reconfigure connections to your data

Update connection information for the target Oracle Analytics Cloud instance. If your data is stored in a database on Oracle Cloud Infrastructure Classic you must move the data to Oracle Cloud Infrastructure.

Whitelist the IP of your service on your data sources

If you whitelisted the IP of your Oracle BI Cloud Service instance, you must perform this task again for the new Oracle Analytics Cloud instance on Oracle Cloud Infrastructure.

Understand snapshot options

Understand what you can include or exclude when you take a snapshot.

Migrate Your Service
<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check your target is ready for migration and take a backup</td>
<td>Verify that the required users and roles are available in your target service and take a snapshot in case you need to roll back.</td>
<td>Back Up Your Target Service Before Migration</td>
</tr>
<tr>
<td>Take a snapshot of the source</td>
<td>Capture the content you want to migrate on the source system.</td>
<td>Take a Snapshot on the Source</td>
</tr>
<tr>
<td>Download the snapshot locally</td>
<td>Download the snapshot that you want to migrate to your local file system.</td>
<td>Download the Snapshot</td>
</tr>
<tr>
<td>Upload the snapshot to the target</td>
<td>Sign in to the target system and upload the snapshot.</td>
<td>Upload the Snapshot on the Target</td>
</tr>
<tr>
<td>Restore the snapshot content</td>
<td>Select the newly uploaded snapshot in the list of saved snapshots and restore the content in the snapshot. After restoring the snapshot you must perform additional tasks to complete the migration. For example, you must edit your data model connections, verify application role assignments, and more.</td>
<td>Restore the Snapshot on the Target</td>
</tr>
<tr>
<td>Edit data model connections for Data Modeler</td>
<td>(Mandatory if you use Data Modeler) Review, edit, and save all your database connections to activate them in Oracle Analytics Cloud. Reconfigure the Default Connection if you used this in Oracle BI Cloud Service.</td>
<td>Edit Data Model Connections for Data Modeler</td>
</tr>
<tr>
<td>Edit data model connections in the RPD file</td>
<td>(Mandatory if you use BI Administration Tool to manage data model connections for Oracle BI Cloud Service and you migrated your data from Oracle Cloud Infrastructure Classic to Oracle Cloud Infrastructure) Edit the data model file (RPD), add the new connection string, and then upload the updated data model to the target system.</td>
<td>Edit Connections in the RPD File and Upload the Data Model</td>
</tr>
<tr>
<td>Migrate data files</td>
<td>Use the Data Migration utility to migrate and restore data files from another environment.</td>
<td>Migrate File-based Data</td>
</tr>
<tr>
<td>Verify application role assignments</td>
<td>Verify that users and groups in your target service have the correct application roles in Oracle Analytics Cloud.</td>
<td>Verify and Configure Service Settings</td>
</tr>
<tr>
<td>Reconfigure search crawl users</td>
<td>Change the name of the users configured to index data model content and catalog content.</td>
<td>Verify and Configure Service Settings</td>
</tr>
<tr>
<td>Verify and configure service settings</td>
<td>Verify various administrative settings on the target service.</td>
<td>Verify and Configure Service Settings</td>
</tr>
<tr>
<td>Activate deliveries</td>
<td>Enable deliveries to start delivering content from the target service.</td>
<td>Restore and Enable Delivery Schedules</td>
</tr>
</tbody>
</table>
Complete Post-Migration Tasks

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test the migrated service</td>
<td>Check the content you migrated is available on Oracle Cloud Infrastructure and everything works as you expect.</td>
<td>Test the Migrated Service Instance</td>
</tr>
<tr>
<td>Clean up services on Oracle Cloud Infrastructure Classic</td>
<td>Remove any resources that you don’t need.</td>
<td>Clean Up Infrastructure and Platform Resources in Oracle BI Cloud Service</td>
</tr>
</tbody>
</table>

About the Migration Tooling

You use a snapshot to migrate your Oracle BI Cloud Service instance to Oracle Analytics Cloud on Oracle Cloud Infrastructure. In certain situations, you might also use the Data Migration Utility or Developer Client Tool.

- **Snapshots**: Migrates your content, file-based data, application role assignments, and other settings from your Oracle BI Cloud Service instance to Oracle Cloud Infrastructure.

- **Data Migration Utility**: Migrates your file-based data to Oracle Cloud Infrastructure. Only required if network connectivity or storage access issues prevents data file migration with the snapshot.

- **Developer Client Tool for Oracle Analytics Cloud**: Enables you to modify connection information for your data models after you migrate to Oracle Cloud Infrastructure. Only required if you uploaded data model files built with the Oracle BI Enterprise Edition BI Administration Tool (.rpd) to Oracle BI Cloud Service.
# Prepare to Migrate Oracle BI Cloud Service Instances

Before you migrate Oracle BI Cloud Service instances to Oracle Cloud Infrastructure plan and prepare for migration.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan your new service</td>
<td>Plan your Oracle Analytics Cloud deployment on Oracle Cloud Infrastructure. Think about what you want before you start.</td>
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<tr>
<td>Complete your order and sign in to your Oracle Cloud account</td>
<td>You must have a subscription for Oracle Analytics Cloud (or Oracle Analytics Cloud Subscription) to create services on Oracle Cloud Infrastructure. As Cloud Account Administrator, you can complete all setup tasks.</td>
<td><a href="#">Sign In For the First Time</a></td>
</tr>
<tr>
<td>Create a service on Oracle Cloud Infrastructure</td>
<td>Create an Oracle Analytics Cloud instance with the required size and shape on Oracle Cloud Infrastructure. If you subscribe through Universal Credits, create the service with Oracle Analytics Cloud. If you have a non-metered subscription, create the service with Oracle Analytics Cloud Subscription.</td>
<td><a href="#">Create a Service with Oracle Analytics Cloud</a> <a href="#">Create a Service with Oracle Analytics Cloud Subscription</a></td>
</tr>
<tr>
<td>Verify your service</td>
<td>Verify that your service is up and running and that you can sign in.</td>
<td><a href="#">Verify Your Service and Sign In</a></td>
</tr>
<tr>
<td>Migrate users and roles</td>
<td>Migrate users and roles from your traditional Oracle BI Cloud Service account to Oracle Identity Cloud Service available with your Cloud account.</td>
<td><a href="#">Migrate Users and Roles from Oracle BI Cloud Service</a></td>
</tr>
<tr>
<td>Reconfigure single sign-on</td>
<td>(Optional) If SAML Single Sign-on (SSO) is configured in your source environment using <code>samlssodocker</code>, set up SSO in your target environment between your identity provider and Oracle Identity Cloud Service.</td>
<td><a href="#">Add an Identity Provider</a> <a href="#">Integrating Oracle Identity Cloud Service with Microsoft Active Directory Federation Services</a></td>
</tr>
</tbody>
</table>
| Integrate Oracle Identity Cloud Service with other identity providers | (Optional) Use Oracle Identity Cloud Service in your target environment to integrate with your identity provider. For example:  
  - Reconcile Microsoft Active Directory with Oracle Identity Cloud Service  
  - Configure Oracle Identity Manager and synchronize users with Oracle Identity Cloud Service  
  - Configure Office 365 users with Oracle Identity Cloud Service  
  - Manage Bridges for Oracle Identity Cloud Service  
  - Integrate Oracle Identity Manager with Oracle Identity Cloud Service  
  - Configure Oracle Identity Cloud Service to Provide Single Sign-On (SSO) for Office 365  
  - REST API for Oracle Identity Cloud Service |
### About Downtime Requirements

The migration process doesn't affect the availability of your existing Oracle BI Cloud Service. Users can continue to sign in and use the service.

**Note:**

If you do allow users to access and make changes after you've taken the final snapshot for migration, you might need to take another snapshot and repeat the migration if you want to include any changes that they make.

After the Oracle BI Cloud Service instance is migrated successfully, you can reroute users to the new Oracle Analytics Cloud instance on Oracle Cloud Infrastructure.

### Plan Your Service on Oracle Cloud Infrastructure

Take some time to plan your service on Oracle Cloud Infrastructure before you create it. Consider the size, shape, and location of your current deployment and decide what you want your Oracle Cloud Infrastructure to look like, before you start. If it helps, use a checklist similar to the one shown here.

- Planning checklist - an example
- Which type of subscription do you need?
- Which edition do you need?
- What sizing options are available to you?
  - How many OCPUs do you think you'll need?
  - How many people will use the service?
- Where do you want to deploy your service?
- What name do you want for your service?

**Planning checklist - an example**

Use a checklist similar to this one to help you decide.
Which type of subscription do you need?

If you subscribe through Universal Credits, you create services on Oracle Cloud Infrastructure with Oracle Analytics Cloud. If you have a non-metered subscription, you use Oracle Analytics Cloud Subscription to create services on Oracle Cloud Infrastructure.

Subscription options on Oracle Cloud Infrastructure:

- Oracle Analytics Cloud (Universal Credits)
- Oracle Analytics Cloud Subscription

Which edition do you need?

In most cases, you need Oracle Analytics Cloud - Enterprise Edition.

Edition options available on Oracle Cloud Infrastructure:

- **Enterprise Edition**: Suitable if you want to offer data visualization, plus enterprise modeling and reporting features. Required if you want to migrate analyses, dashboards, and data visualizations.
- **Professional Edition**: Suitable if you want to offer only data visualization and migrate only data visualization artifacts.
- **Essbase Edition**: Not applicable when you migrate from Oracle BI Cloud Service.
What sizing options are available to you?

If you subscribe to Oracle Analytics Cloud through Universal Credits, you specify the number of Oracle Compute Units (OCPUs) you want to deploy. If you subscribe to Oracle Analytics Cloud Subscription, you either specify how many people you expect to use the service or the number of OCPUs.

<table>
<thead>
<tr>
<th>Size Options</th>
<th>Oracle Analytics Cloud (Universal Credits)</th>
<th>Oracle Analytics Cloud Subscription</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of OCPUs</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of Users</td>
<td>-</td>
<td>Yes</td>
</tr>
</tbody>
</table>

How many OCPUs do you think you'll need?

Oracle Cloud Infrastructure offers a range of compute sizes (OCPUs) to suit different scenarios. The larger the compute size, the greater the processing power. If you're not sure which compute shape best suits your needs, discuss your requirements with your Oracle representative.

For more guidance, read the Oracle Analytics Cloud on Oracle Cloud Infrastructure topic How many OCPUs do you think you'll need for Business Intelligence and Data Visualization?

How many users will use the service?

With Oracle Analytics Cloud Subscription, you can specify how many people you expect to use the service. Verify how many people are using your Oracle BI Cloud Service and consider whether or not this number of users is likely to increase.

For more guidance, read the Oracle Analytics Cloud on Oracle Cloud Infrastructure topic How many people do you expect to use the service?

Where do you want to deploy your service?

Verify the region where you deploy Oracle BI Cloud Service.

Oracle Cloud Infrastructure is hosted in similar geographic areas, also called regions. If multiple regions are available to you, decide where you want to deploy your service. For example, Phoenix, Ashburn, Frankfurt, London. To find out which regions are available, see www.oracle.com/cloud/data-regions.html.

What name do you want for your service?

Think about a suitable name for your service. The name that you specify is displayed in Oracle Cloud Infrastructure Console and in the URL for your service.

Name conventions on Oracle Cloud Infrastructure:

- Must contain between 1 and 25 characters.
- Must start with an ASCII letter: a to z or A to Z.
- Must contain only ASCII letters or numbers.
- Mustn't contain any other special characters.
- Must be unique within the identity domain.
Create Your Service on Oracle Cloud Infrastructure

As Cloud Account Administrator, you can create services on Oracle Cloud Infrastructure. If you subscribe through Universal Credits, create the service with Oracle Analytics Cloud. If you have a non-metered subscription, create the service with Oracle Analytics Cloud Subscription.

Topics
• Create a Service with Oracle Analytics Cloud
• Create a Service with Oracle Analytics Cloud Subscription

Create a Service with Oracle Analytics Cloud

If you subscribe to Oracle Analytics Cloud through Universal Credits, you use Oracle Cloud Infrastructure Console to set up a service with Oracle Analytics Cloud.

1. Sign in to Oracle Cloud as the Cloud Account Administrator.
   If you’re signing in for the first time, you can find your account name and login information in your welcome email.

2. In Oracle Cloud Infrastructure Console, click Navigation menu icon in the top left corner.

3. Under More Oracle Cloud Services, go to Platform Services and click Analytics.

4. Click Create Instance.

5. For Instance Name, enter a name for your service instance.
   The name must start with a letter and can contain only letters and numbers.

6. For Notification Email, enter the email address of the person you want to notify when this service is ready to use and receive other status updates about this service in the future.
   This person is usually you, the Cloud Account Administrator who’s setting up the service.
7. If multiple identity domains are available to you, select the **Identity Domain** that you want this service to use and then enter the name of an existing user in this identity domain that you want to assign as the **Service Administrator**.

You don't see these options if only one identity domain is available.

8. If several geographical regions are available to you, select the **Region** where you want to deploy Oracle Analytics Cloud. For example, uk-london-1.

9. For **License Type**, select whether you want to use your on-premises license with Oracle Analytics Cloud and to be charged the Bring Your Own License (BYOL) rate or subscribe to a new license for Oracle Analytics Cloud.

10. If multiple edition options are available to you, select the **Edition** that you want to use. The edition that you select determines the feature set that you can use.

   For example:

   ![Details](image)

11. For **Feature Set**, select the features that you want to deploy.

   The options available to you depend on the edition you’re subscribed to. If you select **Business Intelligence**, you automatically have access to Data Visualization.

   - Professional Edition: **Data Visualization**
   - Essbase Edition: **Essbase or Data Visualization**
   - Enterprise Edition: **Business Intelligence** (includes Data Visualization) or **Data Visualization**
12. For **Number of OCPUs**, select the number of Oracle Compute Units (OCPUs) for your environment.

   For example:

   ![Analytics Cloud](image)

   13. Click **Next**.

14. Verify that the details are correct, and click **Create**.

   It takes about 20 minutes to create the service. Oracle sends an email to the designated email address when your service is ready. Display the Activity page to check the current status.

   ![Analytics Cloud](image)

---

**Create a Service with Oracle Analytics Cloud Subscription**

You use Oracle Cloud Infrastructure Console to set up a service with Oracle Analytics Cloud Subscription. Follow these steps if you have a non-metered subscription.

1. Sign in to Oracle Cloud as the Cloud Account Administrator.
   
   If you're signing in for the first time, you can find your account name and login information in your welcome email.

2. In Oracle Cloud Infrastructure Console, click **Navigation menu icon** in the top left corner.

3. Under **More Oracle Cloud Services**, go to **Platform Services** and click **Analytics**.
4. Click Navigation menu icon again, and then click Analytics Subscription.

5. Click Create Instance.

6. For Instance Name, enter a name for your service instance. The name must start with a letter and can contain only letters and numbers.

7. For Notification Email, enter the email address of the person you want to notify when this service is ready to use and receive other status updates about this service in the future.

   This person is usually you, the Cloud Account Administrator who’s setting up the service.

8. If multiple identity domains are available to you, select the Identity Domain that you want this service to use and then enter the name of an existing user in this identity domain that you want to assign as the Service Administrator.

   You don't see these options if only one identity domain is available.

9. If several geographical regions are available to you, select the Region where you want to deploy Oracle Analytics Cloud. For example, uk-london–1.

10. If several edition options are available to you, select the Edition that matches the type of service you want to create.

    • Professional
      Data visualization. Self-service data visualization and data preparation. Explore and visualize business data from various data sources, including databases, spreadsheets, Oracle applications, big data, and more.

    • Essbase
      Business modeling with the Essbase multidimensional OLAP (Online Analytical Processing) engine.

    • Enterprise
      Enterprise-wide analytics. Build sophisticated data models to support enterprise business definitions and analysis. Includes data visualization.

11. Determine the size of your service.
Chapter 2
Verify Your Service and Sign In

To size your service based on how many users you're entitled to as part of your subscription, set **Subscription Type** to **Number of Users**, and then enter the number of users.

To size your service based on how many Oracle Compute Units (OCPUs) you're entitled to as part of your subscription, set **Subscription Type** to **Number of OCPUs**, and then select the number of OCPUs you want.

12. Click **Next**.

13. Verify that the details are correct, and click **Create**.

It takes about 20 minutes to create the service. Oracle sends an email to the designated email address when your service is ready. Display the Activity page to check the current status.

![Analytics Cloud Subscription](image)

Verify Your Service and Sign In

Oracle sends an email to the designated email address when your Oracle Analytics Cloud service is ready. Navigate to your service in Oracle Cloud Infrastructure Console, obtain the service URL, and then sign in to verify your Oracle Analytics Cloud service is up and running.

1. Sign in to your Oracle Cloud account.

2. In Oracle Cloud Infrastructure Console, click **Navigation menu icon** in the top left corner.

3. Under **More Oracle Cloud Services**, go to **Platform Services**, and click **Analytics**.

   If you subscribe through Universal Credits, your services are listed on the Oracle Analytics Cloud page that is displayed.

   If you have a fixed subscription, you create services with Oracle Analytics Cloud Subscription. To access these services, click the **Navigation menu icon** again, and then click **Analytics Subscription**.


4. Click **Manage this instance** for your service, and then click **Oracle Analytics Cloud URL** (or **Oracle Analytics Cloud Subscription URL**).

5. Sign in with your administrator credentials.

### Migrate Users and Roles from Oracle BI Cloud Service

Before you migrate your Oracle BI Cloud Service content to Oracle Cloud Infrastructure, you must migrate users and roles from your traditional Oracle BI Cloud Service account to Oracle Identity Cloud Service available with your Cloud account.

1. Navigate to the users and roles you want to export from Oracle BI Cloud Service.
   a. Sign in to your traditional Oracle Cloud account.
   b. Click **Users**.

2. Migrate users (Users tab).

   Export user information to a CSV file (`users.csv`) and import the users to Oracle Identity Cloud Service in your target Cloud account.
   a. On the **Users** tab, click **Export**.
   b. Open `users.csv` to verify it contains the users you want to migrate.
   c. Change the **User Login column heading** to **User ID** and the **Email column heading** to **Work Email**.

   At a minimum, the file must have these exact column headings: **User ID**, **Last Name**, **First Name**, **Work Email**. See Import User Accounts in *Administering Oracle Identity Cloud Service*. You can download a sample file from this topic to verify the format Oracle Identity Cloud Service requires.

   d. Add a **Password** column heading with dummy passwords, if required.
   e. Save your changes to the CSV file.
In Oracle Identity Cloud Service Console, navigate to the **Users** tab and click **Import**.

Click **Browse** to locate and select the CSV file that contains the users you want to import (users.csv).

3. Migrate roles (Roles tab and Custom Roles) and import them as groups on Oracle Identity Cloud Service.

You can’t export roles from your traditional account. You must manually create a CSV file that includes any roles in Oracle BI Cloud Service that you want to migrate, together with their current user assignments. The CSV file you create can include roles and custom roles.

In Oracle Identity Cloud Service, you import these roles and custom roles as **groups**. The format of the CSV file must match the format that Oracle Identity Cloud Service requires to import groups. At a minimum, the file must have these exact column headings: Display Name, Description, User Members.

In Oracle Analytics Cloud, you see these groups on the **Roles** tab and then you assign them to the same application role that they had in Oracle BI Cloud Service.

a. Create a CSV file named Groups.csv.

b. On the **Roles** tab, locate the predefined roles associated with the Oracle BI Cloud Service instance you want to migrate, and then copy Display Name, Description, and User Members information to the CSV file.

Include:

- `<BICServicename>.BICloudServiceAdministrators`
- `<BICServicename>.BICloudServiceAdvancedContentAuthors`
- `<BICServicename>.BICloudServiceConsumers`

Exclude:

- TenantAdminGroup (Identity Domain Administrator), db_administrator, db_developer, db_user, and other service roles.

c. On the **Custom Roles** tab, identify any other roles used by the Oracle BI Cloud Service instance you want to migrate, and then copy Display Name, Description, User Members information to the CSV file.

For example, your Groups.csv file might contain information that looks something like this:

<table>
<thead>
<tr>
<th>Display Name</th>
<th>Description</th>
<th>User Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>mycompany.BICloudServiceAdministrators</td>
<td>Users authorized to administer the service and delegate privileges to others</td>
<td>CBrown</td>
</tr>
<tr>
<td>mycompany.BICloudServiceAdvancedContentAuthors</td>
<td>Users authorized to create and share content</td>
<td>AGold;BJones;DMark</td>
</tr>
<tr>
<td>mycompany.BICloudServiceConsumers</td>
<td>Users authorized to view and explore content</td>
<td>JSmith;Swasher;TYoung</td>
</tr>
<tr>
<td>SalesManagers</td>
<td>Managers in the Sales organization</td>
<td>AGold;BJones;</td>
</tr>
<tr>
<td>SalesTeam</td>
<td>Members of the Sales organization</td>
<td>AGold;BJones;JSmith;SWasher</td>
</tr>
</tbody>
</table>
d. In Oracle Identity Cloud Service Console, use the information you collected in `Groups.csv` to create the required groups in Oracle Identity Cloud Service.

   Navigate to the **Groups** tab. Create groups with exactly the same names, descriptions, and user assignments as the roles you recorded in `Groups.csv`. The names are case-sensitive.

   See Managing Groups in *Administering Oracle Identity Cloud Service*.

4. Verify that the users and groups you migrated to Oracle Identity Cloud Service are available in Oracle Analytics Cloud.

   a. Sign-in to Oracle Analytics Cloud and navigate to **Console**.

   b. Click **Users and Roles**.

   c. On the **Users** tab, verify the list of users and check whether users have the correct role (group).

   d. On the **Roles** tab, verify the list of roles (groups in Oracle Identity Cloud Service) and check whether the correct users are assigned to each role.

5. Grant Oracle Analytics Cloud application roles to the users and groups you migrated to Oracle Identity Cloud Service.

   a. Click the **Application Roles** tab.

   b. Grant appropriate Oracle Analytics Cloud application roles to the roles that you migrated from Oracle BI Cloud Service. Refer to the table.

<table>
<thead>
<tr>
<th>Grant Application Role in Oracle Analytics Cloud...</th>
<th>To Each Role You Migrated to Oracle Identity Cloud Service...</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI Service Administrator</td>
<td><code>&lt;BICServicename&gt;.BICloudServiceAdministrators</code></td>
</tr>
<tr>
<td>DV Content Author</td>
<td><code>&lt;BICServicename&gt;.BICloudServiceAdvancedContentAuthors</code></td>
</tr>
<tr>
<td>BI Content Author</td>
<td><code>&lt;BICServicename&gt;.BICloudServiceAdvancedContentAuthors</code></td>
</tr>
<tr>
<td>DV Consumer</td>
<td><code>&lt;BICServicename&gt;.BICloudServiceConsumers</code></td>
</tr>
<tr>
<td>BI Consumer</td>
<td><code>&lt;BICServicename&gt;.BICloudServiceConsumers</code></td>
</tr>
</tbody>
</table>

**Connect to Your Data**

The way you connect your Oracle Analytics Cloud deployment on Oracle Cloud Infrastructure to your data is similar to your existing Oracle BI Cloud Service. The steps you need to follow depend where your data is stored.

If you're currently using Oracle BI Cloud Service to analyze data in an Oracle Database on Oracle Cloud Infrastructure Classic, you must first move your data to Oracle Cloud Infrastructure before you migrate your Oracle BI Cloud Service instance.
## Where is Your Data Stored?

<table>
<thead>
<tr>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle database on Oracle Cloud Infrastructure Classic:</td>
<td>Move Data from Oracle Database Cloud Schema Service</td>
</tr>
<tr>
<td>• Oracle Database Cloud Schema Service</td>
<td>Move Data from Oracle Cloud Infrastructure - Classic</td>
</tr>
<tr>
<td>• Oracle Database Cloud Service</td>
<td></td>
</tr>
<tr>
<td>First, migrate your data to a database on Oracle Cloud Infrastructure.</td>
<td></td>
</tr>
<tr>
<td>You can reconfigure the database connection to point to the new database.</td>
<td></td>
</tr>
<tr>
<td>after you migrate your Oracle BI Cloud Service instance.</td>
<td></td>
</tr>
<tr>
<td>There are two ways to do this:</td>
<td></td>
</tr>
<tr>
<td>• Use the Connections page in the target Oracle Analytics Cloud instance.</td>
<td></td>
</tr>
<tr>
<td>Use this method if you use Data Modeler.</td>
<td></td>
</tr>
<tr>
<td>• Use the Developer Client Tool for Oracle Analytics Cloud to edit the</td>
<td></td>
</tr>
<tr>
<td>connection information. Use this method if you use Oracle BI Administration</td>
<td></td>
</tr>
<tr>
<td>Tool to manage data models for Oracle BI Cloud Service.</td>
<td></td>
</tr>
<tr>
<td>On-premises database</td>
<td>Connect to Data on On-premises Databases</td>
</tr>
<tr>
<td>You can keep your data in on-premises databases such as Oracle Database,</td>
<td></td>
</tr>
<tr>
<td>MS SQL Server, Teradata, and IBM DB2. Use Data Gateway to access your on-</td>
<td></td>
</tr>
<tr>
<td>premises data from the Oracle Analytics Cloud instance on Oracle Cloud</td>
<td></td>
</tr>
<tr>
<td>Infrastructure.</td>
<td></td>
</tr>
</tbody>
</table>

### Move Data from Oracle Database Cloud Schema Service

Move any data stored on Oracle Database Cloud Schema Service to a database on Oracle Cloud Infrastructure and then migrate Oracle BI Cloud Service to Oracle Cloud Infrastructure. After migration, reconfigure the Default Connection for any data models that used this connection in Oracle BI Cloud Service so the data models connect to the new database.

You must have the Database Administrator role to export data from Oracle Database Cloud Schema Service and import data on the target database. If you don't know the secure FTP user password required to export the data, you need the Identity Domain Administrator role to reset the password. See Set Up Secure FTP Account.

1. Disable any data loading operations scheduled for Oracle BI Cloud Service.
2. Export data from Oracle Database Cloud Schema Service.
   
   See Export Your Database Schema.
3. Create a new database instance on Oracle Cloud Infrastructure and migrate your data using Oracle Data Pump.
See Migrating Databases to the Cloud.

4. If required, whitelist the IP range or Gateway IPs associated with the region where your target Oracle Analytics Cloud is located, with the new database on Oracle Cloud Infrastructure.

See IP Ranges and Gateway IPs for Oracle Analytics Cloud Instances and Configure Your Database to Accept Connections from Oracle Analytics Cloud.

5. Determine the connection string for the new database, then reconfigure this database as the **Default Connection** in Oracle Analytics Cloud.

You complete this step after migration. See Edit Data Model Connections for Data Modeler or Edit Connections in the RPD File and Upload the Data Model.

### Move Data from Oracle Cloud Infrastructure - Classic

Move any data stored on Oracle Cloud Infrastructure Classic to a database on Oracle Cloud Infrastructure. You can reconfigure the database connection used in Oracle BI Cloud Service to point to the new database *after* you migrate your Oracle BI Cloud Service instance.

1. Create a new database instance on Oracle Cloud Infrastructure and migrate your data.
   
   See Select a Method to Migrate Database Instances.

2. If required, whitelist the IP range or Gateway IPs associated with the region where your target Oracle Analytics Cloud is located, with the new database on Oracle Cloud Infrastructure.
   
   See IP Ranges and Gateway IPs for Oracle Analytics Cloud Instances and Configure Your Database to Accept Connections from Oracle Analytics Cloud.

3. Migrate your Oracle BI Cloud Service instance.
   
   See Migrate Your Oracle BI Cloud Service Instances.

4. Determine the connection string for the new database, and then reconfigure the database connection in Oracle Analytics Cloud.

   You complete this step after migration.
   
   • If you used Data Modeler in Oracle BI Cloud Service and want to continue to use Data Modeler after you migrate to Oracle Cloud Infrastructure, see Edit Data Model Connections for Data Modeler.

   • If you used BI Administration Tool to manage data models in Oracle BI Cloud Service, use the latest Developer Client Tool for Oracle Analytics Cloud to reconfigure the database connection in the data model (RPD) that you used in Oracle BI Cloud Service. See Edit Connections in the RPD File and Upload the Data Model.

### Connect to Data on On-premises Databases

You can keep data in your on-premises database. If you haven't done so already you need to install Data Gateway in your on-premises environment and set up a connection to the target Oracle Analytics Cloud instance on Oracle Cloud Infrastructure.

1. Install and set up Data Gateway.
See Set up Data Gateway.

2. Configure and register Data Gateway.
   See Configure and Register Data Gateway.

3. If required, whitelist the IP ranges or Gateway IPs associated with the region where your target Oracle Analytics Cloud is located with your on-premises database (on your firewall).
   See IP Ranges and Gateway IPs for Oracle Analytics Cloud Instances.

4. Migrate to Oracle Analytics Cloud.
   See Migrate Your Content.

5. Use the latest Developer Client Tool for Oracle Analytics Cloud to update connection pool settings for the on-premises database in the data model file (RPD) that you used in Oracle BI Cloud Service.
   See Edit Connections in the RPD File and Upload the Data Model.
Migrate Your Oracle BI Cloud Service Instances

When your target environment is ready, capture the information you want to migrate in a snapshot and copy it to Oracle Analytics Cloud on Oracle Cloud Infrastructure.

In most cases, after you restore the snapshot, you must modify your data model connections to get them to work in Oracle Analytics Cloud. The way you do this depends whether you used Data Modeler or BI Administration Tool to manage your data models in Oracle BI Cloud Service. Instructions on how to edit data model connections, together with other tasks you must do to complete migration are listed in the table.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understand snapshot options</td>
<td>Understand what you can include or exclude when you take a snapshot.</td>
<td>Understand Snapshot Options</td>
</tr>
<tr>
<td>Check your target is ready for migration</td>
<td>Verify that the required users and roles are available in your target service and take a snapshot in case you need to roll back.</td>
<td>Back Up Your Target Service Before Migration</td>
</tr>
<tr>
<td>and take a backup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Take a snapshot of the source</td>
<td>Capture the content you want to migrate on the source system.</td>
<td>Take a Snapshot on the Source</td>
</tr>
<tr>
<td>Download the snapshot locally</td>
<td>Download the snapshot that you want to migrate to your local file system.</td>
<td>Download the Snapshot</td>
</tr>
<tr>
<td>Upload the snapshot to the target</td>
<td>Sign in to the target system and upload the snapshot.</td>
<td>Upload the Snapshot on the Target</td>
</tr>
<tr>
<td>Restore the snapshot content</td>
<td>Select the newly uploaded snapshot in the list of saved snapshots and restore the content in the snapshot.</td>
<td>Restore the Snapshot on the Target</td>
</tr>
<tr>
<td></td>
<td>After restoring the snapshot you must perform additional tasks to complete the migration. For example, you must edit your data model connections, verify application role assignments, and more.</td>
<td></td>
</tr>
<tr>
<td>Edit data model connections for Data</td>
<td>(Mandatory if you use Data Modeler) Review, edit, and save all your database connections to activate them in Oracle Analytics Cloud. Reconfigure the Default Connection if you used this in Oracle BI Cloud Service.</td>
<td>Edit Data Model Connections for Data Modeler</td>
</tr>
<tr>
<td>Modeler</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task</td>
<td>Description</td>
<td>More Information</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>Edit data model connections in the RPD file</td>
<td>Edit the data model file (RPD), add the new connection string, and then upload the updated data model to the target system. (Mandatory if you use BI Administration Tool to manage data model connections for Oracle BI Cloud Service and you migrated your data from Oracle Cloud Infrastructure Classic to Oracle Cloud Infrastructure)</td>
<td>Edit Connections in the RPD File and Upload the Data Model</td>
</tr>
<tr>
<td>Migrate data files</td>
<td>Use the Data Migration utility to migrate and restore data files from another environment.</td>
<td>Migrate File-based Data</td>
</tr>
<tr>
<td>Verify application role assignments</td>
<td>Verify that users and groups in your target service have the correct application roles in Oracle Analytics Cloud.</td>
<td>Verify and Configure Service Settings</td>
</tr>
<tr>
<td>Reconfigure search crawl users</td>
<td>Change the name of the users configured to index data model content and catalog content.</td>
<td>Verify and Configure Service Settings</td>
</tr>
<tr>
<td>Verify and configure service settings</td>
<td>Verify various administrative settings on the target service.</td>
<td>Verify and Configure Service Settings</td>
</tr>
<tr>
<td>Activate deliveries</td>
<td>Enable deliveries to start delivering content from the target service.</td>
<td>Restore and Enable Delivery Schedules</td>
</tr>
</tbody>
</table>

**Understand Snapshot Options**

When you take a snapshot in Oracle BI Cloud Service you capture everything in your environment. When you restore the snapshot on Oracle Analytics Cloud you can restore everything in the target Oracle Analytics Cloud or only restore the content in the snapshot.

- **Replace Everything** - Replaces your entire environment using information in the snapshot.
  
  Any content type excluded from the snapshot is restored to its default state in the target environment, that is, "no content". For example, if you decided to set up a virus scanner before restoring the snapshot, the new virus scanner configuration is removed.
  
  There are some exceptions; if the snapshot doesn't contain any file-based data sets, plug-ins, or extensions these items are left unchanged in Oracle Analytics Cloud.

- **Replace Snapshot Content Only** - Everything that's in the snapshot is restored. Any content type excluded from the snapshot remains unchanged in the target environment.
  
  For example, if you set up a virus scanner before restoring the snapshot, your virus scanner configuration remains.

- **Custom** - You select the content you want to restore. If you don't want to restore certain content types, exclude them before you restore.
Back Up Your Target Service Before Migration

Verify that your target Oracle Analytics Cloud is ready for migration and then take a snapshot in case you need to roll back the service to its pre-migration state.

1. Sign-in to the target Oracle Analytics Cloud.
2. Verify that the users and roles you imported to Oracle Identity Cloud Service are available.
   a. Navigate to Console, and click Users and Roles.
   b. Click the Users tab and then the Roles tab to verify the users and roles.
3. Take a backup of the target Oracle Analytics Cloud.
   a. Navigate to Console, and click Snapshots.
   b. Click Create Snapshot.
   c. For description, enter "Snapshot before content migration" or something similar.
   d. Select Everything, and then click Create.

Migrate Your Content

Capture the content you want to migrate in a snapshot and restore that snapshot on your target Oracle Analytics Cloud.

1. Sign-in to the source Oracle BI Cloud Service.
2. If you're using Data Modeler to build and manage data models, you must remove spaces from database connection names before you take your final snapshot.
   a. Navigate to Console, and click Connections.
   b. Check whether any of your connection names include a space.
   c. If required, edit connection names, removing all spaces, and save the connection.
   d. Allow some time for new names to refresh through the system before moving on to the next step.
3. Save the entire environment you want to migrate to a snapshot.
   a. Navigate to Console, click Snapshots and Models, and then New Snapshot.
   b. For Description, enter "Migrate content to Oracle Cloud Infrastructure" or something similar.
   c. Click OK.
4. Download the snapshot locally.
   a. Select the snapshot that you want to download.
   b. Click the Manage Snapshot menu, and select Download.

You're asked to create a password for the snapshot. Don't forget this password. You'll need this password when you upload the snapshot on the target system.
c. Enter and confirm a password for the snapshot. The password must contain at least 8 characters.

d. Click OK.
   The snapshot downloads as an Oracle Business Intelligence archive file (.bar).

5. Sign-in to the target Oracle Analytics Cloud and upload the snapshot.
   See Upload the Snapshot on the Target.

6. Restore the snapshot, and select Replace Everything.
   See Restore the Snapshot on the Target.
   After restoring the snapshot you must perform additional tasks to complete the migration. For example, you must reconfigure your data model connections, verify application and roles, very and configure various settings, and activate deliveries.

7. Edit your data model connections.
   See Edit Data Model Connections for Data Modeler or Edit Connections in the RPD File and Upload the Data Model.

8. Migrate data files manually if the restore process fails to migrate them.
   See Migrate File-based Data.

9. Verify application role assignments and other system settings.
   See Verify and Configure Service Settings.

10. Activate deliveries.
    See Restore and Enable Delivery Schedules.

**Edit Data Model Connections for Data Modeler**

If you used Data Modeler in Oracle BI Cloud Service, you must make some updates to the database connection information you migrated to Oracle Analytics Cloud to get your data models to work in Oracle Analytics Cloud. For example, if you used the Default Connection in Oracle BI Cloud Service you must recreate this connection in Oracle Analytics Cloud. If you migrated any other database connections, you must activate these one-by-one to start using them in Oracle Analytics Cloud.

1. Sign-in to the target Oracle Analytics Cloud and navigate to Console.

2. Activate all the data model connections migrated to Oracle Analytics Cloud.
   a. Click Connections.
   b. Edit and save each connection migrated from Oracle BI Cloud Service to activate the connection.
      If the connection details have changed, you can edit these at the same time. For example, if you moved your data from a database on Oracle Cloud Infrastructure Classic to a database on Oracle Cloud Infrastructure.

3. If any of your data models used the Default Connection in Oracle BI Cloud Service, reconfigure this connection in Oracle Analytics Cloud to point to the database on Oracle Cloud Infrastructure that contains the data you migrated from Oracle Database Cloud Schema Service.
a. Determine the connection string for the new database on Oracle Cloud Infrastructure.

b. In Console, click Connections.

c. Click Create, and specify the name as DefaultConnection or some other name if you prefer.

d. Enter connection details for the new database.

   In Oracle Analytics Cloud, you can't include spaces in the connection name, so the connection name in Oracle Analytics Cloud (DefaultConnection) doesn't exactly match the name in Oracle BI Cloud Service (Default Connection). This means you must reconfigure any data model using Default Connection to point to the new connection named here.

e. In Data Modeler, change the connection for any data models that previously used Default Connection.

   See Open Data Modeler and Connect a Model to a Different Database.

f. Validate, and publish any models that you change to synchronize the new connection. See Use Data Modeler.

---

**Edit Connections in the RPD File and Upload the Data Model**

Sometimes you must reconfigure the database connection information inside your source data model file (.rpd) after you migrate to Oracle Analytics Cloud on Oracle Cloud Infrastructure. For example, this is required when you move your data from Oracle Cloud Infrastructure Classic to Oracle Cloud Infrastructure because the connect string for the new database is different. If you need to edit the data model file, you must upload the updated model to Oracle Analytics Cloud immediately after content migration.

---

**Note:**

These instructions only apply if you used BI Administration Tool to manage data models in Oracle BI Cloud Service. If you use Data Modeler, you edit connection information for data models through Console.

1. Determine the connection string for the new database on Oracle Cloud Infrastructure.

2. If you haven’t done so already, download and install the latest Developer Client Tool for Oracle Analytics Cloud from:

   For instructions, see Download and Install Developer Client Tool for Oracle Analytics Cloud.

3. Use the latest Developer Client Tool to open the RPD file that you used in Oracle BI Cloud Service.
4. Navigate to the Physical Layer pane, select the database connection you want to edit, and open the Connection Pool dialog.

5. Edit the connection details In Data Source Name, to specify the new database on Oracle Cloud Infrastructure.

6. Save the changes to your RPD file.

7. Upload the updated data model file to the target Oracle Analytics Cloud instance. Navigate to the Console, click Snapshots, click the Page menu, and then click Replace Data Model.

See also Upload Data Models from a File (.rpd) Using Console.

**Migrate File-based Data**

Users upload data files, such as spreadsheets, to Oracle BI Cloud Service to create data sets. When you migrate to a new Oracle Analytics Cloud environment, you can take this file-based data with you. Oracle Analytics Cloud offers a Data Migration utility that enables you to move your data files to the new location. The Data Migration utility also moves any map-related plug-ins and extension files that users might upload for their data visualizations.

The Data Migration utility allows you to move data files directly from one environment to another in a single step. Or if you prefer, you can download your file-based data to a ZIP file and then upload the data files to your chosen environment in two separate steps.

1. Check some environment details.
   - Verify that the source Oracle BI Cloud Service and the target Oracle Analytics Cloud both use the latest version (105.3 or later). The Data Migration utility isn't available in earlier versions.
     - If you're not sure, ask your Oracle representative.
   - Check that the source and target system are both up and running and Oracle Analytics Cloud is configured with valid storage credentials.
   - Check your local environment. You need Java 1.8 or later to run the migration utility.
   - Check you can access the source environment and the target Oracle Analytics Cloud from the local environment where you plan to run this utility.
   - Verify the name and location of the snapshot you downloaded earlier that contains your file-based data. For example, /tmp/20190307095216.bar.

2. Download the Data Migration utility.
   a. In your target Oracle Analytics Cloud, click Console and then click Snapshots.
   b. Click the Page menu, select Migrate, then Download Data Migration Utility. Follow the instructions to save the migrate-oac-data.zip file locally.

   - migrate-oac-data.jar
   - config.properties
4. If you want to migrate data files stored in your source environment directly to the target in a single step, configure the section `[MigrateData]` in `config.properties`.

   `[MigrateData]`
   # Migrate data files from a source Oracle BI Cloud Service environment (BICS) to a target Oracle Analytics Cloud environment.
   # Specify the source environment as Oracle BI Cloud Service.
   SOURCE_ENVIRONMENT=BICS
   # Source Oracle BI Cloud Service URL. For example: https://sourcehost.com:443 or http://sourcehost.com:9704
   SOURCE_URL=http(s)://<Source Oracle BI Cloud Service Host>:<Source Port>
   # Name of a user with Administrator permissions in the source environment. For example: SourceAdmin
   SOURCE_USERNAME=<Source Administrator User Name>
   # Location of the source BAR file. For example: /tmp/20190307095216.bar
   BAR_PATH=<Path to Source BAR File>
   # Target Oracle Analytics Cloud URL. For example: https://targethost.com:443 or http://targethost.com:9704
   TARGET_URL=http(s)://<Target Oracle Analytics Cloud Host>:<Target Port>
   # Name of a user with Administrator permissions in the target environment. For example: TargetAdmin
   TARGET_USERNAME=<Target Administrator User Name>

5. If you want to first download data files from your source Oracle BI Cloud Service to your local environment and subsequently upload the data files to the target Oracle Analytics Cloud environment, configure sections `[DownloadDataFragments]` and `[UploadDataFragments]` in `config.properties`.

   `[DownloadDataFragments]`
   # Download Data Files: Download data files from Oracle BI Cloud Service storage to a local repository
   # Specify the source environment as Oracle BI Cloud Service.
   SOURCE_ENVIRONMENT=BICS
   # Source Oracle BI Cloud Service URL. For example: https://sourcehost.com:443 or http://sourcehost.com:9704
   SOURCE_URL=http(s)://<Source Oracle BI Cloud Service Host>:<Source Port>
   # Name of a user with Administrator permissions in the source environment. For example: SourceAdmin
   SOURCE_USERNAME=<Source Administrator User Name>
   # Location of the source BAR file. For example: /tmp/20190307095216.bar
   BAR_PATH=<Path to Source BAR File>
   # Local data file directory. Make sure you have enough space to download the data files to this directory. For example: /tmp/
   LOCAL_DATA_FILE_PATH=/tmp/
mydatafiledir

DATA_FRAGMENTS_DIRECTORY=<Data Files Directory>
# Data fragment size. Data files are downloaded in fragments.
Default fragment size is 500MB.
MAX_DATA_FRAGMENT_SIZE_IN_MB=500

[UploadDataFragments]
#Upload data files: Upload data files to the target Oracle Analytics Cloud.
# Target Oracle Analytics Cloud URL. For example: https://targethost.com:443 or http://targethost.com:9704
TARGET_URL=http(s)://<Target Oracle Analytics Cloud Host>:<Target Port>
# Name of a user with Administrator permissions in the target environment. For example: TargetAdmin
TARGET_USERNAME=<Target Administrator User Name>
# Local directory containing the data files you want to upload. For example: /tmp/mydatafiledir
DATA_FRAGMENTS_DIRECTORY=<Data Files Directory>
# Location of the source BAR file. For example: /tmp/20190307095216.bar
BAR_PATH=<Path to Source BAR File>

6. Run the migrate-oac-data.jar file in your local environment.
Syntax:


Where:
- `-config configfile`: Name of the config.properties file
- `-d`: Downloads data locally using information in config.properties
- `-help`: Prints help
- `-m`: Migrates data using source and target information in the config.properties file
- `-u`: Uploads data using information in the config.properties file

For example, to migrate data files in a single step:

java -jar migrate-oac-data.jar -m -config config.properties

For example, to download data files locally:

java -jar migrate-oac-data.jar -d -config config.properties

For example, to upload data files:

java -jar migrate-oac-data.jar -u -config config.properties

7. Sign in to your target Oracle Analytics Cloud.
8. To expose the data files you must restore the same snapshot that failed earlier.
   a. Open the Console, and click **Manage Snapshots**.
   b. Select the snapshot containing your data files.
   c. Select the **Custom** restore option, and then select the option **File-based data**.
      Deselect all other options.
   d. Click **Restore**.

9. Verify that your data files are available.

### Verify and Configure Service Settings

Many settings are migrated for you. Take some time to review various settings on the target Oracle Analytics Cloud and reconfigure settings, if required.

1. Sign-in to the target Oracle Analytics Cloud and navigate to **Console**.

2. Verify that all the application roles that you want are available and they're assigned to the correct users and roles.
   a. In Console, click **Users and Roles**.
   b. Click **Application Roles**.
      See Add Members to Application Roles.

3. Reconfigure search crawl users.
   The user name that is configured immediately after migration includes the tenancy prefix required for Oracle BI Cloud Service. You must remove the tenancy prefix because this isn't required in Oracle Analytics Cloud.
   a. In Console, click **Search Index**.
   b. On the Data Model tab, click the **Set User** search icon for the **User to Run Crawl As** field, and select the name of a user with administrative permissions in Oracle Analytics Cloud.
      For example, you might change the user name from `<Tenancy>.MyAdminUser` to `MyAdminUser`. If you prefer, you can select the name of a different user.
   c. Click the **Catalog** tab, and repeat the steps to select a search crawl user for catalog content.

4. In Console, click **Mail Server** to verify your email server configuration.
   See Set Up an Email Server to Deliver Reports.

5. In Console, click **Safe Domains** to verify your safe domains are configured.
   See Whitelist Safe Domains.

6. In Console, click **Maps** to verify map configuration for data visualizations.
   See Add Custom Map Layers.

7. In Console, click **Extensions** to verify your custom plug-ins and extensions.
   See Manage Custom Plug-ins.

8. In Console, click **Virus Scanner** to configure a virus scanner configuration.
   See Set Up a Virus Scanner.
9. In Console, click **System Settings** to verify and configure advanced options available on this page.
   See Configure Advanced Options.

10. In Classic Administration, click **Manage Map Data** to verify map configuration for analyses and dashboards.
    See Set Up Maps for Dashboards and Analyses.

## Restore and Enable Delivery Schedules

When you migrate deliveries from Oracle BI Cloud Service, delivery information is restored on Oracle Analytics Cloud but it isn't activated right away. Initially, restored deliveries are disabled. Click the **Edit Delivery** option to re-activate them.

1. In Oracle Analytics Cloud, click **Console**.
2. Click **Monitor Deliveries**.
3. To restore deliveries, click the **Action** menu for the page and select **Restore Deliveries**.
   
   Click **OK** to confirm. Recently restored deliveries display ![Disabled](https://example.com).

4. To activate a delivery, click the Action menu for the delivery, and select **Edit Delivery**.
   Enable, and if necessary, redefine the delivery schedule.

5. To prevent clutter, delete any history or deliveries you don't want anymore. Click the Action menu for the delivery:
   - **Delete History** — Removes historical information that you don't want to see any more.
   - **Delete Delivery** — Deletes the delivery and all its history.
Complete Post-Migration Tasks

After successfully migrating your Oracle BI Cloud Service content to Oracle Cloud Infrastructure, test your new Oracle Analytics Cloud instance thoroughly, and then perform cleanup and other optional configuration tasks.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>More Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test the migrated service</td>
<td>Check the content you migrated is available on Oracle Cloud Infrastructure and everything works as you expect.</td>
<td>Test the Migrated Service Instance</td>
</tr>
<tr>
<td>Clean up services on Oracle Cloud Infrastructure Classic</td>
<td>Remove any resources that you don't need.</td>
<td>Clean Up Infrastructure and Platform Resources in Oracle BI Cloud Service</td>
</tr>
</tbody>
</table>

Test the Migrated Service Instance

After migrating your Oracle BI Cloud Service instance to Oracle Cloud Infrastructure, test your service thoroughly to ensure it's production-ready.

1. If you use Data Modeler, verify your data models and their database connections.
2. Run analyses to check they display the correct data.
   
   You might need to click Refresh to see the data.
3. Open dashboards to check they display as expected.
4. If you set up email delivery schedules for your content, verify that they're working.
5. Navigate to the Projects page, then open data visualization projects to make sure the visualizations display the correct data.
6. Navigate to the Data page.
   a. Verify your data sets.
   b. Check connection details.

Clean Up Infrastructure and Platform Resources in Oracle BI Cloud Service

After testing your Oracle Analytics Cloud instance on Oracle Cloud Infrastructure you can delete the source Oracle BI Cloud Service instance and other supporting resources in Oracle Cloud Infrastructure Classic such as the associated cloud database. Remove these resources from Oracle Cloud Infrastructure Classic to avoid costs for services that you no longer use.

1. Delete the Oracle BI Cloud Service instance.
   a. Sign in to your traditional Oracle Cloud account, and navigate to the Oracle BI Cloud Service Service Details page.
b. Click Action Menu for the instance you migrated, and then select Delete.

c. When prompted for confirmation, click Delete.

2. Delete the Oracle Database Cloud Schema Service or Oracle Database Cloud Service instance associated with the Oracle BI Cloud Service instance.

Don't delete a database if it's still used by other services.

a. Access the Oracle Database Cloud Schema Service details page (Database Schema) or Oracle Database Cloud Service details page (Database Classic).

b. Click Action Menu for the database instance, and then select Delete.

c. When prompted for confirmation, click Delete.