

Oracle® Cloud

Migrating Oracle Data Visualization Cloud Service Instances to Oracle Cloud Infrastructure



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Preface

Learn how to migrate from Oracle Data Visualization Cloud Service to Oracle Analytics Cloud on Oracle Cloud Infrastructure.

Topics:

- [Audience](#)
- [Documentation Accessibility](#)
- [Diversity and Inclusion](#)
- [Related Documents](#)
- [Conventions](#)

Audience

Migrating Oracle Data Visualization Cloud Service Instances to Oracle Cloud Infrastructure is intended for administrators who migrate services and content from Oracle Data Visualization 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.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Related Documents

These related Oracle resources provide more information.

- [Getting Started with Oracle Analytics Cloud on Oracle Cloud Infrastructure \(Gen 1\)](#)
- [Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure \(Gen 2\)](#)
- [Administering Oracle Analytics Cloud](#)
- [Configuring Oracle Analytics Cloud](#)

Conventions

Conventions used in this document are described in this topic.

Text Conventions

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

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 Data Visualization 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 Data Visualization 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

Migration Scenario	Source Oracle Data Visualization Cloud Service	Target Oracle Analytics Cloud
Cloud Service	Oracle Data Visualization Cloud Service Latest update (19.2.2 or later)	Oracle Analytics Cloud Latest update (5.3 or later)
Cloud Subscription	Traditional metered subscription or nonmetered subscription to Oracle Cloud	Cloud account subscription to Oracle Analytics Cloud. Either: <ul style="list-style-type: none">• Universal Credits• Fixed Oracle Analytics Cloud Subscription
Identity Management	Traditional identity management through Oracle Cloud Infrastructure Classic Console (previously called My Services)	Either: <ul style="list-style-type: none">• Oracle Cloud Infrastructure Identity and Access Management (IAM) Identity Domains¹• Oracle Identity Cloud Service²

¹ If your Oracle Cloud account offers IAM Identity Domains.

² If your Oracle Cloud account doesn't offer IAM Identity Domains.

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

Not covered in this Guide

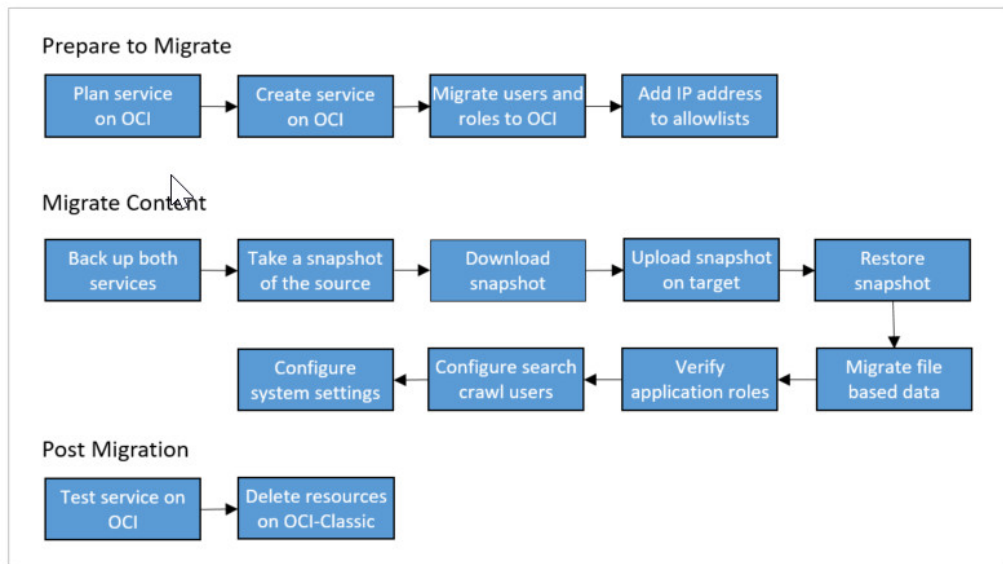
Migration scenario	Description	More Information
Database migration	You must migrate your Oracle Database Classic Cloud Service on Oracle Cloud Infrastructure Classic (if any) to Oracle Cloud Infrastructure.	Migrate Databases Using the Migration Tools

About the Migration Task Flow

You use a snapshot to migrate an Oracle Data Visualization 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

Task	Description	More Information
Plan your new service	Plan your Oracle Analytics Cloud deployment on Oracle Cloud Infrastructure. Think about what you want before you start.	Plan Your Service on Oracle Cloud Infrastructure

Task	Description	More Information
Complete your order and sign in to your Oracle Cloud account	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.	Signing in for the First Time
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.	Create a Service with Oracle Analytics Cloud Create a Service with Oracle Analytics Cloud Subscription
Verify your service	Verify that your service is up and running and that you can sign in.	Verify Your Service and Sign In
Migrate users and roles	Migrate users and roles from your traditional Oracle Data Visualization Cloud Service account.	Migrate Users and Roles from Oracle Data Visualization Cloud Service
Add the IP address of your service to allowlists	If you registered the IP of your Oracle Data Visualization Cloud Service instance in any data source allowlists, you must perform this task again for the new Oracle Analytics Cloud instance on Oracle Cloud Infrastructure.	Find the IP or Host Name of Your Oracle Analytics Cloud Instance

Migrate Your Service

Task	Description	More Information
Understand snapshot options	Understand what you can include or exclude when you take a snapshot.	Understand Snapshot Options
Check that your target is ready for migration and take a backup	Verify that the required users and roles are available in your target service and take a snapshot in case you need to roll back.	Back Up Your Target Service Before Migration
Take a snapshot of the source	Capture the content you want to migrate on the source system.	Take a Snapshot on the Source
Download the snapshot	Download the snapshot that you want to migrate to your local file system.	Download the Snapshot
Import the snapshot to the target	Sign in to the target system and import the snapshot.	Import Snapshot on the Target
Restore the snapshot content	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 migrate data files, verify application role assignments, and more.	Restore Snapshot on the Target
Migrate data files	Use the Data Migration utility to migrate and restore data files from another environment.	Migrate File-based Data

Task	Description	More Information
Verify application role assignments	Verify that users and groups in your target service have the correct application roles in Oracle Analytics Cloud.	Verify and Configure Service Settings
Reconfigure search crawl users	Change the name of the users configured to index catalog content.	Verify and Configure Service Settings
Verify and configure service settings	Check that your safe domains are configured correctly. Optionally, configure new options of your service, such as a virus scanner, or maps and extensions for your data visualizations.	Verify and Configure Service Settings

Complete Post-Migration Tasks

Task	Description	More Information
Test the migrated service	Check that the content you migrated is available on Oracle Cloud Infrastructure and everything works as you expect.	Test the Migrated Service Instance
Clean up services on Oracle Cloud Infrastructure Classic	Remove any resources that you don't need.	Clean Up Infrastructure and Platform Resources in Oracle Data Visualization Cloud Service

About the Migration Tooling

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

- **Snapshots:** Migrates your content, file-based data, application role assignments, and other settings from your Oracle Data Visualization 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.

2

Prepare to Migrate Oracle Data Visualization Cloud Service Instances

Before you migrate Oracle Data Visualization Cloud Service instances to Oracle Cloud Infrastructure, plan and prepare for migration.

Task	Description	More Information
Plan your new service	Plan your Oracle Analytics Cloud deployment on Oracle Cloud Infrastructure. Think about what you want before you start.	Plan Your Service on Oracle Cloud Infrastructure
Complete your order and sign in to your Oracle Cloud account	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.	Signing in for the First Time
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.	Create a Service with Oracle Analytics Cloud Create a Service with Oracle Analytics Cloud Subscription
Verify your service	Verify that your service is up and running and that you can sign in.	Verify Your Service and Sign In
Migrate users and roles	Migrate users and roles from your traditional Oracle Data Visualization Cloud Service account.	Migrate Users and Roles from Oracle Data Visualization Cloud Service
Add the IP address of your service to allowlists	If you registered the IP of your Oracle Data Visualization Cloud Service instance in any data source allowlists, you must perform this task again for the new Oracle Analytics Cloud instance on Oracle Cloud Infrastructure.	Find the IP or Host Name of Your Oracle Analytics Cloud Instance

About Downtime Requirements

The migration process doesn't affect the availability of your existing Oracle Data Visualization 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 need to take another snapshot and repeat the migration if you want to include any changes that they make.

After the Oracle Data Visualization 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 feature set 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.

Plan	My Existing Oracle Data Visualization Cloud Service	My New Oracle Analytics Cloud on Oracle Cloud Infrastructure
Subscription	<input type="checkbox"/> Oracle Data Visualization Cloud Service (Traditional Metred) <input checked="" type="checkbox"/> Oracle Data Visualization Cloud Service (Traditional Nonmetred)	<input checked="" type="checkbox"/> Oracle Analytics Cloud (Universal Credits) <input type="checkbox"/> Oracle Analytics Cloud Subscription
Feature Set	Data Visualization	<input checked="" type="checkbox"/> Self-Service Analytics <input type="checkbox"/> Enterprise Analytics
Size	Number of Users: <u>20</u>	Number of Users: <u>50*</u> (additional user capacity required) Number of OCPUs: <u>N/A</u> * User/OCPU numbers not required with Universal Credit subscriptions
Region	<u>London</u>	<u>London</u>
Service Name	<u>comp20192361</u>	<u>comp20192361</u>

Which type of subscription do you need?

If you subscribe through Universal Credits, you create Oracle Analytics Cloud services on Oracle Cloud Infrastructure (Gen 2) . If you have a non-metered subscription, you use Oracle Analytics Cloud Subscription to create services on Oracle Cloud Infrastructure.

- Oracle Analytics Cloud (Universal Credits): Oracle Cloud Infrastructure (Gen 2)
- Oracle Analytics Cloud Subscription: Oracle Cloud Infrastructure (Gen 1)

Which feature set do you need?

In most cases, you need Oracle Analytics Cloud - Self-Service Analytics.

Feature sets available on Oracle Cloud Infrastructure:

- **Self-Service Analytics:** Suitable if you want to offer only data visualization and migrate only data visualization artifacts (Professional Edition).
- **Enterprise Analytics:** Suitable if you want to offer data visualization, plus enterprise modeling and reporting features (Enterprise Edition).
- **Essbase:** Not applicable when you migrate from Oracle Data Visualization Cloud Service.

What sizing options are available to you?

When you create an Oracle Analytics Cloud service, you either specify the number of Oracle Compute Units (OCPUs) you want to deploy or the number of people you expect to use the service.

Size Options	Oracle Analytics Cloud (Universal Credits)	Oracle Analytics Cloud Subscription
Number of OCPUs	Yes	Yes
Number of Users	Yes	Yes

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 [How many OCPUs do you think you'll need?](#)

How many users will use the service?

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

For more guidance, read [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 Data Visualization Cloud Service.

Oracle Cloud Infrastructure is hosted in 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.

Naming 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](#)

Oracle recommends that you deploy new services on Oracle Cloud Infrastructure Gen 2. If you don't have access yet, see [When and how do I access the new administration console for Oracle Cloud Infrastructure \(Gen 2\)?](#)

- [Create a Service with Oracle Analytics Cloud Subscription](#)


Create a Service using the Console

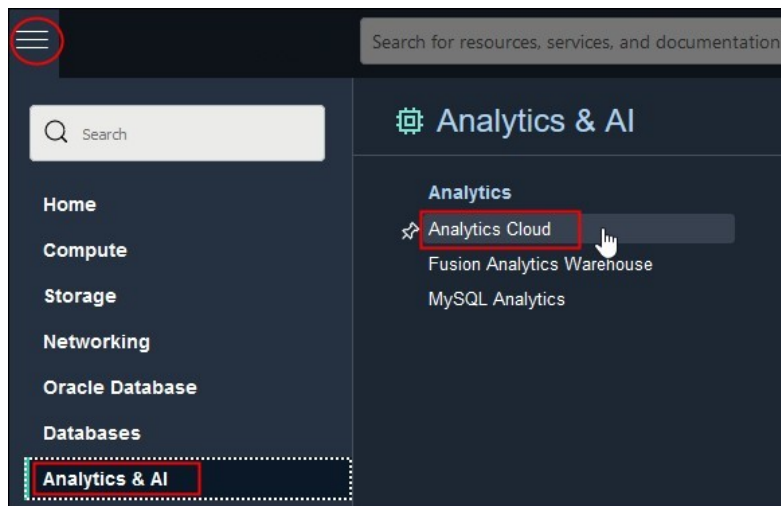
You can use Oracle Cloud Infrastructure Console to set up a service instance with Oracle Analytics Cloud.

You must belong to an OCI group that is granted the required policies to create an Analytics instance. See [Give Users Permissions to Manage Analytics Cloud Instances](#).

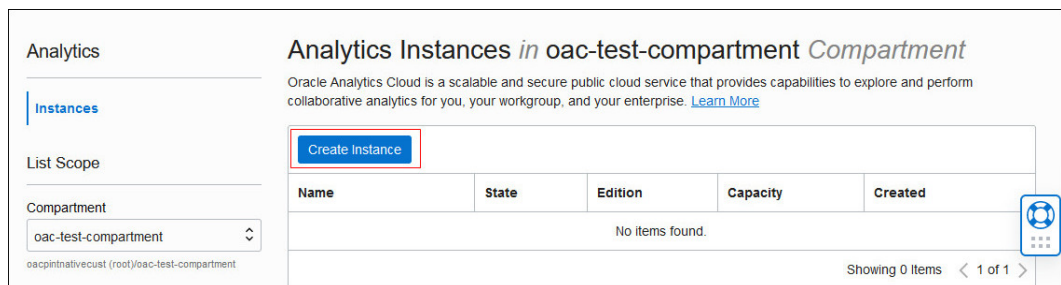
1. Sign in to your Oracle Cloud account.

The way you sign in depends whether your cloud account uses identity domains or federates with Oracle Identity Cloud Service. See [Signing In to the Oracle Cloud Infrastructure Console](#).

2. In Console, click  in the top left corner.
3. Click **Analytics & AI**. Under **Analytics**, click **Analytics Cloud**.



4. From the **Compartment** list, select the compartment in which you want to create the service.
5. Click **Create Instance**.



6. Enter a **Name** and a brief description.
The name must start with a letter and can contain only letters and numbers.
7. For **Capacity**, select the size of your deployment.

- **OCPU:** Select the number of OCPUs you want to deploy.
 - **Production environment:** Select between 2 and 52 OCPUs.
 - **Non-production environment:** Select 1 OCPU if you want to create an instance for test purposes.

See [What's the Difference Between Production and Non-Production Environments](#).

You must select the **OCPU** option if you plan to use your Oracle Middleware on-premise license with Oracle Analytics Cloud (BYOL).

8. For **License**, select **License Included** to subscribe to an Oracle Cloud license for Oracle Analytics Cloud or **Bring Your Own License (BYOL)** to use your Oracle Middleware on-premise license with Oracle Analytics Cloud and be charged the Bring Your Own License (BYOL) rate.

The **Bring Your Own License (BYOL)** option is available when you select **OCPU** for Capacity.

9. Select the **Edition** that matches your subscription.
 - **Enterprise Edition:** Deploys an instance with enterprise modeling, reporting, and data visualization.

For example:

Create Analytics Instance [Help](#)

Name
myanalytics
Must be unique, start with a letter and contain only alphanumeric characters.

Description *Optional*
Enterprise analytics instance for MyCompany in the London region

Create in Compartment
oac-test-compartment
oacpintnativeoust (root)/oac-test-compartment

Capacity

Capacity Type

OCPU
Number of OCPUs you want to deploy for your service. ✓

Users
Number of users expected to use this service.

OCPU Count
6
Scalability: Between 2 and 8 OCPUs

License and Edition

License

License Included
Subscribe to a new Analytics Cloud software license and the Analytics Cloud service. ✓

Bring Your Own License (BYOL)
Bring my organization's middleware software license to the Analytics Cloud service. [Learn More](#)

Edition

Enterprise Edition
Deploy an instance with enterprise modeling, reporting, and data visualization. [Learn More](#) ✓

Professional Edition
Deploy an instance with data visualization. [Learn More](#)

[Show Advanced Options](#)

Create [Cancel](#)

10. Optional: Click **Show Advanced Options** to configure network or encryption options.

[Hide Advanced Options](#)

Network Access

Public
Access your instance from anywhere

Private
Access your instance from a Virtual Cloud Network only

Configure Access Control

Data Encryption

Encrypt using Oracle-managed Keys
Leave all encryption to Oracle.

Encrypt using Customer-managed Keys
Requires a valid key from a vault that you have access to. [Learn More](#)

Create [Cancel](#)

11. In **Network Access**, configure how you want users to access Oracle Analytics Cloud: over the public internet or through a private network.

- **Public:** Enable access over the public internet.

The Public option deploys Oracle Analytics Cloud with a public internet accessible endpoint. If required, you can configure access control rules to restrict access by public IP address, public CIDR block range, VCN, and Oracle services. See [Restrict Access to Oracle Analytics Cloud Deployed with a Public Endpoint](#).

- **Private:** Enable private access from an on-premise network or hosts on a virtual cloud network (VCN). Private access means that traffic doesn't go over the internet.

The Private option deploys Oracle Analytics Cloud with a private endpoint. Before you configure this option, you must set up the Oracle Cloud Infrastructure VCN that you plan to use with a subnet for Oracle Analytics Cloud. If required, you can restrict access to private endpoints through network security groups. If your network security groups aren't set up yet, you can save this task for later. See [Deploy Oracle Analytics Cloud with a Private Endpoint](#).

You can configure access control rules for a public endpoint or change the VCN, subnet, and network security group access for a private endpoint, later on as required. However, you *can't change* your network access selection from public to private (or private to public).

12. Optional: In **Data Encryption**, customize how Oracle Analytics Cloud encrypts customer data.

- **Encrypt using Oracle-managed Keys:** Leave all data encryption to Oracle.
- **Encrypt using Customer-managed Keys:** Specify the custom encryption key you want to use.

You can configure data encryption now or later. If you haven't created a master encryption key yet, leave this task for later. See [Encrypt Sensitive Information](#).

Your Oracle Analytics Cloud instance must be deployed with **Enterprise Edition**. Custom encryption isn't available on Oracle Analytics Cloud instances deployed with **Professional Edition**.

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

It takes about 20 minutes to create the service. Display the Instance page to check the current status.

Analytics Instances *in myanalytics Compartment*

Oracle Analytics Cloud is a scalable and secure public cloud service that provides capabilities to explore and perform collaborative analytics for you, your workgroup, and your enterprise. [Learn More](#)


Create Instance

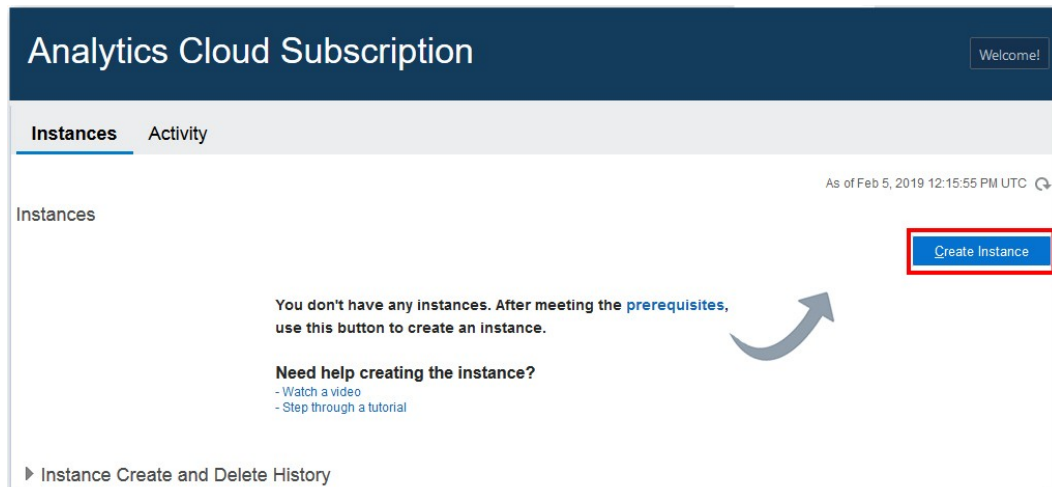
Name	State	Edition	Capacity	Created
myanalytics	Creating	Enterprise Edition	2 OCPUs	Mon, Jun 27, 2022, 16:00:43 UTC

Showing 1 Item < 1 of 1 >

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  in the top right corner.
3. Click **Service User Console**, and then click **Oracle Analytics Cloud Subscription**.
If you don't immediately see **Oracle Analytics Cloud Subscription**, enter **Analytics Cloud Subscription** in the search box.
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. If several edition options are available to you, select the **Edition** that matches the type of service you want to create.
 - **Professional**

- **Essbase ***
- **Enterprise**

* Oracle Analytics Cloud -Essbase Edition isn't available in Oracle Cloud accounts created after 12th December 2019.

10. Determine the size of your service.

- 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 (between 10 and 3000).
- To size your service based on how many Oracle Compute Units (OCPU) 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.

11. Click **Next**.

12. 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.

The screenshot shows the 'Analytics Cloud Subscription' interface. The 'Activity' tab is selected, displaying a search activity log. The log shows a single entry for 'Create Service' with the instance name 'MyAnalyticsCloud', service type 'Analytics Cloud Subscription', operation status 'Running', and start time 'Feb 5, 2019 12:32:25 PM UTC'. The user who initiated the operation is listed as 'JOHN...'.

Operation	Instance Name	Service Type	Operation Status	Start Time	End Time	Initiated By
Create Service	MyAnalyticsCloud	Analytics Cloud Subscription	Running	Feb 5, 2019 12:32:25 PM UTC		JOHN...

Migrate Users and Roles from Oracle Data Visualization Cloud Service

Before you migrate your Oracle Data Visualization Cloud Service content to Oracle Cloud Infrastructure, you must migrate users and roles from your traditional Oracle Data Visualization Cloud Service account to the identity management system available with your Cloud account: Oracle Cloud Infrastructure Identity and Access Management (IAM) Identity Domains or Oracle Identity Cloud Service (IDCS).

1. Navigate to the users and roles you want to export from Oracle Data Visualization 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 on your target identity management system.

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 required format.

d. Add a `Password` column heading with dummy passwords, if required.

e. Save your changes to the CSV file.

f. In Oracle Cloud Infrastructure Console, navigate to the **Users** tab and click **Import**.

For details, refer to the documentation for your identity management system:

- [Import Users to IAM Identity Domains](#) in *Oracle Cloud Infrastructure documentation*.
- Import Users to IDCS in *Administering Oracle Identity Cloud Service*.

g. 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 your target identity management system.

You can't export roles from your traditional account. You must manually create a CSV file that includes any roles in Oracle Data Visualization 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 Cloud Infrastructure Console, you import these roles and custom roles as *groups*. The format of the CSV file must match the format required 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 Data Visualization Cloud Service.

a. Create a CSV file named `Groups.csv`.

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

Include:

- `<DVCServicename>.BICloudServiceAdministrators`
- `<DVCServicename>.BICloudServiceAdvancedContentAuthors`
- `<DVCServicename>.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 Data Visualization 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:

Display Name	Description	User Assignments
mycompany.BICloudServiceAdministrators	Users authorized to administer the service and delegate privileges to others	CBrown
mycompany.BICloudServiceAdvancedContentAuthors	Users authorized to create and share content	AGold;BJones;DMarks
mycompany.BICloudServiceConsumers	Users authorized to view and explore content	JSmith;Swasher;TYoung
SalesManagers	Managers in the Sales organization	AGold;BJones;
SalesTeam	Members of the Sales organization	AGold;BJones;JSmith;SWasher

- d. In Oracle Cloud Infrastructure Console, use the information you collected in `Groups.csv` to create the required groups in Oracle Cloud Infrastructure Identity and Access Management (IAM) Identity Domains or Oracle Identity Cloud Service (IDCS).

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.



For details, refer to the documentation for your identity management system:

- [Import Groups to IAM Identity Domains](#) in *Oracle Cloud Infrastructure documentation*.
 - [Managing Groups in IDCS](#) in *Administering Oracle Identity Cloud Service*.
4. Verify that the users and groups you migrated 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) and check whether the correct users are assigned to each role.
5. Grant Oracle Analytics Cloud application roles to your users and groups.
- a. Click the **Application Roles** tab.
 - b. Grant appropriate Oracle Analytics Cloud application roles to the roles that you migrated from Oracle Data Visualization Cloud Service. Refer to the table.

Grant Application Role in Oracle Analytics Cloud...	To Each Role You Migrated to Oracle Cloud Infrastructure...
BI Service Administrator	<DVCServicename>.BICloudServiceAdministrators
DV Content Author	<DVCServicename>.BICloudServiceAdvancedContent Authors
DV Consumer	<DVCServicename>.BICloudServiceConsumers

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  in the top left corner.
3. Do one of the following:
 - Oracle Analytics Cloud (Universal Credits) - Click **Analytics & AI**. Under **Analytics**, click **Analytics Cloud**.
Select the compartment in which you created the service, the name of the new service, and then click **Analytics Home Page**. See Verify Your Service.
 - Oracle Analytics Cloud Subscription - Click  in the top right corner, click **Service User Console**, and then click **Oracle Analytics Cloud Subscription**.
Click **Manage this instance** for your service, and then click **Oracle Analytics Cloud URL**. See Verify Your Service.
4. Sign in with your administrator credentials.

3

Migrate Your Oracle Data Visualization 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.

Task	Description	More Information
Understand snapshot options	Understand what you can include or exclude when you take a snapshot.	Understand Snapshot Options
Check that your target is ready for migration and take a backup	Verify that the required users and roles are available in your target service and take a snapshot in case you need to roll back.	Back Up Your Target Service Before Migration
Take a snapshot of the source	Capture the content you want to migrate on the source system.	Take a Snapshot on the Source
Download the snapshot	Download the snapshot that you want to migrate to your local file system.	Download the Snapshot
Import the snapshot to the target	Sign in to the target system and import the snapshot.	Import Snapshot on the Target
Restore the snapshot content	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 migrate data files, verify application role assignments, and more.	Restore Snapshot on the Target
Migrate data files	Use the Data Migration utility to migrate and restore data files from another environment.	Migrate File-based Data
Verify application role assignments	Verify that users and groups in your target service have the correct application roles in Oracle Analytics Cloud.	Verify and Configure Service Settings
Reconfigure search crawl users	Change the name of the users configured to index catalog content.	Verify and Configure Service Settings
Verify and configure service settings	Check that your safe domains are configured correctly. Optionally, configure new options of your service, such as a virus scanner, or maps and extensions for your data visualizations.	Verify and Configure Service Settings

Understand Snapshot Options

When you take a snapshot in Oracle Data Visualization 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 datasets, 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 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 Data Visualization Cloud Service.
2. Save the entire environment you want to migrate to a snapshot.
 - a. Navigate to **Console**, click **Snapshots**, and then **New Snapshot**.
 - b. For **Description**, enter "Migrate content to Oracle Cloud Infrastructure" or something similar.
 - c. Click **OK**.

3. 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).
4. Sign-in to the target Oracle Analytics Cloud and import the snapshot.

See [Import Snapshot on the Target](#).
5. Restore the snapshot, and select **Replace Everything**.

See [Restore Snapshot on the Target](#).

After restoring the snapshot you must perform additional tasks to complete the migration. For example, you must verify application and roles, and configure various settings.
6. Migrate data files manually if the restore process fails to migrate them.

See [Migrate File-based Data](#).
7. Verify application role assignments and other system settings.

See [Verify and Configure Service Settings](#).


Migrate File-based Data

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

The CLI 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 your environment details.
 - Verify that the source Oracle Data Visualization Cloud Service and the target Oracle Analytics Cloud both include the latest update (5.3 or later). The CLI 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 CLI utility.
 - Make sure you can access the source environment and the target Oracle Analytics Cloud from the local environment where you plan to run the CLI utility.
 - Verify the name and location of the snapshot that you downloaded earlier containing your file-based data. For example, `/tmp/20190307095216.bar`.

2. Download the CLI 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.

3. Unzip `migrate-oac-data.zip`.

The ZIP file contains three files:

- `migrate-oac-data.jar`
- `config.properties`
- `readme`

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 Data Visualization Cloud
Service environment (DVCS) to a target Oracle Analytics Cloud
environment.
# Specify the source environment as Oracle Data Visualization
Cloud Service.
SOURCE_ENVIRONMENT=DVCS
# Source Oracle Data Visualization Cloud Service URL. For
example: https://sourcehost.com:443 or http://sourcehost.com:9704
SOURCE_URL=http(s)://<Source Oracle Data Visualization 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 snapshot (.bar file). For
example: /tmp/20190307095216.bar
BAR_PATH=<Path to Source Snapshot>
# 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 Data Visualization Cloud Service to your local environment and subsequently upload the data files to the target Oracle Analytics Cloud environment, configure sections `[DownloadDataFiles]` and `[UploadDataFragments]` in `config.properties`.

```
[DownloadDataFiles]
#Download Data Files: Download data files from Oracle Data
```

```

Visualization Cloud Service storage to a local repository
# Specify the source environment as Oracle Data Visualization Cloud
Service.
SOURCE_ENVIRONMENT=DVCS
# Source Oracle Data Visualization Cloud Service URL. For example:
https://sourcehost.com:443 or http://sourcehost.com:9704
SOURCE_URL=http(s)://<Source Oracle Data Visualization 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 snapshot (.bar file). For example: /tmp/
20190307095216.bar
BAR_PATH=<Path to Source Snapshot>
# Local data file directory. Make sure you have enough space to
download the data files to this directory. For example: /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

[UploadDataFiles]
#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 snapshot (.bar file). For example: /tmp/
20190307095216.bar
BAR_PATH=<Path to Source Snapshot>

```

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

Syntax:

```
migrate-oac-data.jar [-config configfile] [-d] [-help] [-m] [-u]
```

Where:

- `-config configfile`: Name of the config.properties file
- `-d`: Downloads data locally using information in config.properties
- `-help`: Displays 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 in Oracle Analytics Cloud, you must restore the snapshot that you used to migrate the rest of your content for a second time. This time, you must select the **Custom** restore option.
 - 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 configuration options 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 Data Visualization 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 Catalog 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.

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

4

Complete the Post-Migration Tasks

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

Task	Description	More Information
Test the migrated service	Check that the content you migrated is available on Oracle Cloud Infrastructure and everything works as you expect.	Test the Migrated Service Instance
Clean up services on Oracle Cloud Infrastructure Classic	Remove any resources that you don't need.	Clean Up Infrastructure and Platform Resources in Oracle Data Visualization Cloud Service


Test the Migrated Service Instance

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

1. Navigate to the **Home** page, then open some workbooks you're familiar with to make sure the visualizations display the correct data.
2. Navigate to the **Data** page.
 - a. Verify your datasets.
 - b. Check connection details.

Clean Up Infrastructure and Platform Resources in Oracle Data Visualization Cloud Service

After testing your Oracle Analytics Cloud instance on Oracle Cloud Infrastructure you can delete the source Oracle Data Visualization Cloud Service instance and any other supporting resources in Oracle Cloud Infrastructure Classic. Remove these resources from Oracle Cloud Infrastructure Classic to avoid costs for services that you no longer use.

- Delete the Oracle Data Visualization Cloud Service instance.
 1. Sign in to your traditional Oracle Cloud account, and navigate to the Oracle Data Visualization Cloud Service Details page.
 2. Click **Action Menu**  for the instance you migrated, and then select **Delete**.
 3. When prompted for confirmation, click **Delete**.