

What's New for Oracle Analytics Cloud

Here's an overview of new features and enhancements added recently to improve your Oracle Analytics Cloud experience. It's organized by the release a specific feature or capability became available.

Topics:

- [Release 5.8](#)
- [Release 5.7](#)
- [Earlier Releases](#)

Release 5.8

- [What's New in 5.8](#)
- [What's Fixed in 5.8](#)

What's New in 5.8

Visualization

Feature	Description
Consistent legend properties across visualizations	The following visualizations have properties (such as location and fonts) added to their legend: Sankey, Network, Tree Diagram, and Chord. See Adjust Visualization Properties .
Image backgrounds for heat maps	Visualize data with heat map layers on your custom image maps. See Apply Map Backgrounds and Map Layers to Enhance Visualizations .

Feature	Description
Single header on all pages	The user interface in Oracle Analytics has been enhanced with a single header that helps to maximize your workspace. With the content density provided, you can realize the benefits of your viewing capability with a modernized user interface and improved navigation. See Access Oracle Analytics Cloud .
Toggle "Use as Filter" on visualization	Oracle Analytics allows you to interact with content in a dashboard to filter analyses on an individual basis. You can use top-level filters and on-canvas filters to allow your users to decide which filters should be passed and to where. Using breadcrumb details, you can easily see which filters are being applied where. See How the Number of Data Sets Affects Filters .

Data Sources

Feature	Description
Enhanced Essbase database connections	You can connect directly to remote on-premise Essbase data sources, and you can connect through the metadata repository (RPD) file using Oracle Analytics Cloud Data Gateway (which is the recommended option). See Connect to Essbase .
Enrichments for live data sets	You can leverage enrichments for live data sets along with cached or file-based data sets. See About Data Preparation .
Query data models remotely	Query your Oracle Analytics Cloud data model from an external client using JDBC. See Query Data Models Remotely Using JDBC in either: <ul style="list-style-type: none"> • Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) • Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure

Pixel-Perfect Reporting

Feature	Description
Additional data model validation messages	Additional rules and improved query validation messages incorporated in the data model help report authors follow best practices. See Data Model Validation Messages .
XML data pruning	Data extraction from data sources often includes additional XML elements that aren't used by the report layout. If you enable XML data pruning, Publisher removes the unnecessary data elements and builds the XML structure using only the data fields that are mapped to the layout fields. Data pruning improves performance, especially for extremely large data extractions. See Data Model Properties and Set Output Options .

General

Feature	Description
Customized time-zone setting	Properties that affect the date and time of the system are commonly used in analytics. These properties can drive functions such as rolling periods and date differences, and you can use them to determine when to send notifications. Oracle Analytics provides the ability to use these date-time properties in SQL functions. For instance, you can query for a value this minute and compare that same value to what happened 10 minutes earlier. The Default Time Zone for Date Calculations setting allows you to configure your time zone. See Format Options .
Propagate shared folder permissions to associated artifacts	To allow you to effectively manage shared content among users, you can select whether to grant permissions to other users when saving content in shared folders or moving content among shared folders. See Assign Shared Folder and Project Permissions .
Support for token based authentication for embedded Oracle Analytics content	You can use authentication tokens (which you obtain from APIs in Oracle Identity Cloud Service) with embedded canvases in Oracle Analytics. See Use Token Authentication .

What's Fixed in 5.8

For a list of defects fixed in Oracle Analytics Cloud, see [Doc ID 2707124.1](#).

For a list of defects fixed in Oracle Analytics Cloud – Essbase, see [Doc ID 2621174.1](#).

Release 5.7

- [What's New in 5.7](#)
- [What's Fixed in 5.7](#)

What's New in 5.7

Visualization

Feature	Description
Spark charts within performance tiles	You can liven up your visualizations with spark charts added to tiles. See Examine Trends with Spark Charts .
Responsive canvas layouts	You can use controls for setting vertical and horizontal scrolling of canvas reports and automatic responsive design across screen resolutions. See Adjust the Visualization Canvas Layout .
On-canvas filters	You can add on-canvas filters that allow users to choose, change, and apply filters to attribute columns within some or all of the visualizations on the canvas. See Add an On-Canvas Filter .

Feature	Description
Oracle machine learning models and Oracle Analytics Cloud	In Oracle Analytics Cloud, you can register and use Oracle machine learning models to model, score, and output large data sets on the database. You can register and use Oracle machine learning models from Oracle Database and Oracle Autonomous Data Warehouse connections. See How Can I Use Oracle Machine Learning Models In Oracle Analytics? .
Top/Bottom filters for attributes	Add a Top/Bottom filter for an attribute and then pick the measure. Previously you could only add the Top/Bottom filter for a measure and then pick the attribute. See Apply Top Bottom N Filters .
Bridge reports	You can use the Waterfall visualization to build a bridge report. A bridge report groups data by contributions of each member to the overall variation between values of categories. For example, show the respective contribution of various products to the total sales variation year by year. See Create a Project and Add Data Sets .
Content paging rows setting	You can specify the maximum number of rows you want displayed for content paging in table and pivot table views in analyses and dashboards. See Display Options .

Pixel-Perfect Reporting

Feature	Description
Publisher auto-purges the old records of scheduled jobs	Job history data that's more than 180 days old is automatically and periodically purged. See View Report Job History and Saved Output .

Data Preparation

Feature	Description
Database Advanced Analytics functions in data flows	You can consume advanced analytics functions from Oracle Autonomous Data Warehouse and Oracle Database. These include Dynamic Clustering and Dynamic Anomalies, Unpivoting of columns and rows, and Smart sampling. See Add Analytic Functions to a Data Flow .

What's Fixed in 5.7

For a list of defects fixed in Oracle Analytics Cloud, see [Doc ID 2688378.1](#).

For a list of defects fixed in Oracle Analytics Cloud – Essbase, see [Doc ID 2621174.1](#).

Earlier Releases

- [Release 5.6](#)
- [Release 105.5.x](#)
- [Release 105.4.x](#)

- [Release 105.3.x](#)
- [Release 105.2.3 - May 2019](#)
- [Release 105.2 - March 2019](#)
- [Release 105.1.4 – March 2019](#)
- [Release 105.1.1 - February 2019](#)
- [Release 105.1.0 – January 2019](#)
- [Release 18.3.3 - September 2018](#)
- [Release 18.2.5 - June 2018](#)
- [Release 18.2.3 - May 2018](#)
- [Release 18.2.1 - April 2018](#)
- [Release 18.1.3 - February 2018](#)
- [Release 17.4.5 - December 2017](#)
- [Release 17.3.5 - September 2017](#)
- [Release 17.3.3 - August 2017](#)

Release 5.6

- [What's New in 5.6](#)
- [What's Fixed in 5.6](#)

What's New in 5.6

Visualization

Feature	Description
Waterfall visualization enhancements	You can do the following with waterfall visualizations: <ul style="list-style-type: none"> • Assign custom colors for increase and decrease values. • Configure data labels to show either actual values or variation values.
Improved usability of the Canvas Bar	As you create a project, you have many different tabs of analyses. Explore the improved content density of canvas names for better visibility and quick duplication of a canvas for iterative report creation and testing. As you duplicate or copy canvas tabs, new canvasses are added next to the original and not at the end of the list for ease of accessibility.
Create digitized custom map layers	Easily create custom interactive visualizations from any image. Upload images and create map layers that support defining areas on the images with no-code polygon definitions bound to data interactively. See Use an Image as a Map Background and Draw Map Layer Shapes Onto the Image .

Feature	Description
Enhanced map rendering and ability to disable gestures	The performance of map rendering is enhanced including data truncation warnings when using large data sets. You can lock the display of a map and disable interactive gestures for a better experience.
Copy calculation expressions to the Clipboard	Access a simple menu option to copy an entire expression to the Clipboard without opening the formula editor.
Quicker calculations	Quickly copy and duplicate custom calculations to make backup copies, and to test syntax scenarios quickly.
Flexible and persistent cell sizing in tables and pivot tables	Enhance the clarity of tables and pivot tables. You can control the size of columns and rows for specific data points that need more attention or more room for visibility.
Data Actions to Publisher reports	Create data actions to navigate easily to a Publisher report. See Use Data Actions to Connect to Oracle Analytics Publisher Reports .
Authentication methods for embedded analytics content	Configure login prompt or 3-Legged OAuth authentication for your web application or portal web page that contains embedded analytics content. See Add Authentication .

Connection

Feature	Description
Microsoft Azure SQL Database	Visualize data from Microsoft Azure SQL Database. See Supported Data Sources .
Remote MySQL database	Access on-premise MySQL databases using self-service connections (requires Remote Data Gateway). See Supported Data Sources .

Pixel-Perfect Reporting

Feature	Description
Remote connectivity support for data sources	Use Data Gateway to connect Publisher to remote Oracle Database, DB2, and SQL Server data sources. See Set Up a JDBC Connection to an On-premise Data Source .
Dynamic images from Content Server in reports	Use the RTF and XPT templates to include dynamic images from Content Server. See About Images .
Property to affect leading and trailing spaces	Configure the Trim Leading and Trailing Spaces From Parameter Value data model property to remove the leading and trailing spaces from parameter values. See Data Model Properties .
XML data chunking for large data sets	If you enable XML data chunking for processing large data sets, then: <ul style="list-style-type: none"> You don't need to specify page numbering in the template. The consolidated PDF output includes the page numbers. You can use the XSL template. See XML Data Chunking .

Data Preparation

Feature	Description
Data preparation - enhanced search and replace	Perform advanced search and replace and pattern matching using powerful regular expressions (also referred to as <code>regex</code>). See Transform Data Using Replace .
Additional Model Training Output for Clusters	Create more powerful cluster analyses using extended fields that assist in visualizing the output of your model with network charts to see your output (that is, Explainable AI). See Train a Clustering Model in a Data Flow .
Simplified Data Set Editor	You can set properties for incremental data refreshes, caching rules, and flexible column management in a single page Data Set Editor.
Enhanced Oracle Enterprise Performance Management Cloud (EPM) data modeling	Take advantage of the preinstalled Analytic Data Modeling (ADM) driver to create enhanced reports. See Overview to Integration with Planning, Close and Tax Reporting on Oracle EPM Platform .

Deployment and Administration

Feature	Description
Use access control rules to restrict access to Oracle Analytics Cloud with a public endpoint	If you deploy Oracle Analytics Cloud with a public internet accessible endpoint, you can restrict access through one or more rules. See Restrict Access to Oracle Analytics Cloud Deployed with a Public Endpoint .
Deploy Oracle Analytics Cloud with a private endpoint	Restrict access to Oracle Analytics Cloud through a private endpoint. Private access means that traffic doesn't go over the internet. Private access can be from hosts within your virtual cloud network (VCN) or your on-premise network. See Deploy Oracle Analytics Cloud with a Private Endpoint .
Discover important network and security information for Oracle Analytics Cloud instances more easily	A new tab in Oracle Cloud Infrastructure Console displays the host name, IP address and gateway IP address of your Oracle Analytics Cloud instance, plus useful information about the identity provider (Oracle Identity Cloud Service). See Find the IP Address or Host Name of Your Oracle Analytics Cloud Instance .

General

Feature	Description
Oracle Analytics Cloud available in Hyderabad and Jeddah	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in India South (Hyderabad) and Saudi Arabia West (Jeddah). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .
Improved System Settings interface	Explore the improved interface of the System Settings page for faster navigation. See Configure Advanced Options .

Feature	Description
Administrator Mode in Day by Day to push content into feeds for suggested viewing	With the Administrator Mode in Oracle Analytics Day by Day, you can add to the Recommended feed of all the users in your organization. See Perform Administrator Tasks.
User-assistance enhancements	<p>We've introduced two new guides to make it easier to find user-assistance:</p> <ul style="list-style-type: none"> • Connecting Oracle Analytics Cloud to Your Data - Collates connection information that we moved from <i>Visualizing Data and Building Reports in Oracle Analytics Cloud</i> and <i>Preparing Data in Oracle Analytics Cloud</i>. • Modeling Enterprise Data in Oracle Analytics Cloud - Collates modeling information that we moved from <i>Visualizing Data and Building Reports in Oracle Analytics Cloud</i>, <i>Designing Pixel-Perfect Reports in Oracle Analytics Cloud</i>, and <i>Preparing Data in Oracle Analytics Cloud</i>. <p>In addition, the <i>Preparing Data in Oracle Analytics Cloud</i> guide is renamed Configuring Oracle Analytics Cloud.</p>

What's Fixed in 5.6

For a list of defects fixed in Oracle Analytics Cloud, see [Doc ID 2669927.1](#).

For a list of defects fixed in Oracle Analytics Cloud – Essbase, see [Doc ID 2621174.1](#).

Release 5.5.x

- [What's New in 5.5.4 and 5.5.5 - April 2020](#)
- [What's New in 5.5.3 - March 2020](#)
- [What's New in 5.5.2 - March 2020](#)
- [What's New in 5.5.1 - February 2020](#)
- [What's New in 5.5.0 - January 2020](#)
- [What's Fixed in 5.5.0 and Subsequent Patches](#)

What's New in 5.5.4 and 5.5.5 - April 2020

General

Feature	Description
Oracle Analytics Cloud available in Amsterdam, Melbourne, Montreal, and Osaka	<p>Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in several more regions:</p> <ul style="list-style-type: none"> • Australia Southeast (Melbourne) • Canada Southeast (Montreal) • Japan Central (Osaka) • Netherlands Northwest (Amsterdam) <p>See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2).</p>

What's New in 5.5.3 - March 2020

General

Feature	Description
Oracle Analytics Cloud available in Zurich	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in Switzerland North (Zurich). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .
Use Oracle Cloud Infrastructure Email Delivery	Learn how to configure Oracle Analytics Cloud to send emails using the SMTP mail server available with Oracle Cloud Infrastructure. See Example - Oracle Cloud Infrastructure Email Delivery .

What's New in 5.5.2 - March 2020

General

Feature	Description
Oracle Analytics Cloud available on Oracle Cloud Infrastructure Gen 2 in EMEA	<p>Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in several regions in EMEA: UK South (London) and Germany Central (Frankfurt).</p> <p>The way you deploy and manage Oracle Analytics Cloud on Oracle Cloud Infrastructure Gen 2 is different to the current deployment process in London and Frankfurt. To learn how to deploy Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2), see Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2).</p> <p>If your Oracle Cloud account started before 2nd March 2020 and you currently manage Oracle Analytics Cloud environments in EMEA, this roll-out introduces a new administrative user experience. That is, there is a new way to perform administrative tasks such as create, start, stop, scale, and delete services.</p> <ul style="list-style-type: none"> Administrators can create and manage their Oracle Analytics Cloud environments using the new administration pages offered with Oracle Cloud Infrastructure Gen 2. Administrators can continue to create and manage their Oracle Analytics Cloud environments using the current administration pages. <p>For details, see FAQs - Managing Services in North America and EMEA.</p>

What's New in 5.5.1 - February 2020

General

Feature	Description
Oracle Analytics Cloud available on Oracle Cloud Infrastructure Gen 2 in North America	<p>Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in several regions in North America: US East (Ashburn), US West (Phoenix), and Canada Southeast (Toronto).</p> <p>The way you deploy and manage Oracle Analytics Cloud on Oracle Cloud Infrastructure Gen 2 is different to the current deployment process in North America. To learn how to deploy Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2), see Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2).</p> <p>If your Oracle Cloud account started before 14th February 2020 and you currently manage Oracle Analytics Cloud environments in North America, this roll-out introduces a new administrative user experience. That is, there is a new way to perform administrative tasks such as create, start, stop, scale, and delete services.</p> <ul style="list-style-type: none"> Administrators can create and manage their Oracle Analytics Cloud environments using the new administration pages offered with Oracle Cloud Infrastructure Gen 2. Administrators can continue to create and manage their Oracle Analytics Cloud environments using the current administration pages. <p>For details, see FAQs - Managing Services in North America.</p>

What's New in 5.5.0 - January 2020

Visualization

Feature	Description
Butterfly visualization	You can select the Butterfly visualization to present two sets of data series side by side and organized by a specific metric.
Assign a map layer to a column	You can use the Location Details option to assign a map layer to a column. See Assign a Map Layer to a Data Column.
Auto-focus in map layers	When you've added filters to your map visualization, you can use the Auto Focus on Data option to automatically focus onto a particular map area. See Auto Focus on Data for a Map Visualization.
Spacer visualization	You can add spacers onto the canvas to provide filler space between visualizations.
Enhance grand totals in pivot tables and tables	For pivot tables and tables, use the Property tab to control the formats and positions of grand totals and subtotals.
Canvas and project background configuration	You can add background colors and images to canvases and projects.
Hierarchical coloring	You can select the Hierarchical Coloring option to ensure consistent coloring for each metric's attribute values.
Reference line in Explain	In Explain's Key Drivers results for attribute columns, a constant reference line is displayed in 100% stacked charts. See Analyze Data with Explain.
Connect to Oracle NetSuite	Connect to Oracle NetSuite Cloud ERP data to explore, analyze, and create visualizations.
Connect to an Oracle Database using a Single Client Access Name (SCAN) ID	Connect to an Oracle Database configured on multiple clusters using a Single Client Access Name (SCAN) ID. In the Create Connection dialog, you select Advanced to configure the Single Client Access Name (SCAN) ID. See About Specifying Connections to Databases.
Spatial functions in data modeling	In the Expression Editor, you can use spatial functions when you model data using Oracle Analytics Developer Client Tool to help you perform geographical analysis. See Spatial Functions. You can't use these spatial functions in self-service mode for visualization projects.

Data Source Connections

Feature	Description
Remote connectivity support added for new data sources	Use Data Gateway to connect remotely to: <ul style="list-style-type: none">• Essbase (visualizations)• Oracle Applications• Oracle Autonomous Data Warehouse• Oracle Autonomous Transaction Processing• Oracle Analytics Publisher sources
Oracle Netsuite support	Connect to Oracle Netsuite.

Feature	Description
Connections to Oracle Big Data Cloud Classic are no longer available	Connections to Oracle Big Data Cloud Classic are no longer available. If you have existing connections from Oracle Analytics Cloud - Classic to Oracle Big Data Cloud Classic, including those used for Data Replication, they're not affected and they continue to work. Data Replication to Big Data Cloud Classic won't be available in a future release.

Pixel-Perfect Reporting

Feature	Description
Connect Publisher to the data sources configured in your on-premises environment	Create a JDBC connection to connect to a data source using Data Gateway. See About Connecting Publisher to On-premises Data Source.
Use PGP encryption to deliver reports using FTP and Content Server delivery channels	Upload PGP keys in Security Center and configure PGP encryption for report delivery through FTP and Content Server delivery channels. See Use PGP Keys for Encrypted Report Delivery.
Chunk XML data for processing large data sets	If you select the Enable Data Chunking property at the instance level, you can enable XML data chunking for individual data models, reports, and report jobs. See Data Model Properties, XML Data Chunking, and Set Output Options.
Configure a default printer	You can configure a default printer for your account. See Set Your Account Preferences.
Restrict access to delivery channels	You can configure role-based access for delivery channels. See Set Up Delivery Destinations.
Configure FTP and SFTP delivery retry	If you set the Enable FTP/SFTP delivery retry property to true, Publisher makes another attempt to deliver reports to the FTP or SFTP delivery channel, if the first attempt fails. See Delivery Properties.

General

Feature	Description
Oracle Analytics Cloud – Essbase	Statement of Direction Oracle Analytics Cloud – Essbase Edition is no longer available in Oracle Cloud accounts created after 12th December 2019. Instead, Oracle Essbase is now available on Oracle Cloud Marketplace. See: https://docs.oracle.com/en/database/other-databases/essbase/19.3/index.html Any Oracle Cloud account created before 12th December 2019 that includes Oracle Analytics Cloud – Essbase Edition, remains unchanged.

What's Fixed in 5.5.0 and Subsequent Patches

For a list of defects fixed in Oracle Analytics Cloud, see [Doc ID 2621242.1](#).

For a list of defects fixed in Oracle Analytics Cloud – Essbase, see [Doc ID 2621174.1](#).

Release 5.4.x

- [What's New in 105.4.3 and 105.4.4 - November and December 2019](#)
- [What's New in 105.4.0 - October 2019](#)
- [What's Fixed in 5.4.0 and Subsequent Patches](#)

What's New in 5.4.3 and 5.4.4 - November and December 2019

General

Feature	Description
Oracle Analytics Cloud available in APAC and LAD regions	<p>Oracle Analytics Cloud rolls out to APAC (Asia Pacific) regions Japan East (Tokyo), India West (Mumbai), South Korea North (Seoul), Australia East (Sydney), as well as LAD (Latin America Division) region Sao Paulo.</p> <p>The way you deploy and manage Oracle Analytics Cloud on APAC and LAD regions is different to the deployment process in North America and Europe.</p> <p>To learn how to deploy Oracle Analytics Cloud on APAC and LAD regions, see Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2).</p>

What's New in 5.4.0 - October 2019

Administration

Feature	Description
Cloud Console and My Services	<p>Cloud Console and My Services Dashboard have been updated to provide a more unified customer experience. The Cloud Console is now called Infrastructure Console. The My Services Dashboard is now called Infrastructure Classic Console. These updates enhance and simplify managing your Oracle Cloud services, but the placement for several key navigational actions have changed. For a list of changes and improvements, see 'Console Experience Enhancements Unite IaaS, PaaS, and SaaS' in Oracle Cloud Infrastructure Blog.</p>

Feature	Description
Safe Domains	A redesigned page makes it easier for you to register your safe domains. See Whitelist Safe Domains.
Classic Administration link moved	Click the user profile icon on the Classic Home page to access the Administration link.

Data Replication and Preparation

Feature	Description
Support for Oracle Cloud Infrastructure Object Storage	When you replicate data from Oracle Cloud Applications, you can load data from a bucket in Oracle Cloud Infrastructure Object Storage or Oracle Cloud Infrastructure Object Storage Classic. See Create a Replication Connection for Oracle Cloud Applications.
Split Columns step for data flows	In your data flows, extract useful data from within columns using the Split Columns step. See Split Columns in a Data Flow.
Connecting to remote data sources	Install Data Gateway on Linux using Oracle Universal Installer, and also use Data Gateway agents to execute any SQL statement (in addition to the default <code>SELECT SQL</code> statements). See Connect to On-premises Data Sources.

Data Visualization

Feature	Description
Enhanced home page and search bar	Use the enhanced home page and search bar to quickly locate your analytics content. <ul style="list-style-type: none"> Access reports and dashboards from the home page, as well as other content types such as machine learning. Search tags enable one-click searches for content in a selected category. For example, Data, Machine Learning, Recent Data Sets, and so on. Projects page is renamed Catalog, and provides access to all types of content. See Find and Explore Your Content.
Delimiter support	When creating a data set from a CSV or TXT file, you can specify a thousand separator and a decimal separator. When you output data from a visualization, the outputted file uses the data delimiter for your computer's locale. See Add a Spreadsheet from Your Computer and Share a Visualization or Story as a File.
Trellis row (Y2 Axis) improvements	The default position of a visualization's trellis row is the left side of the visualization. The formatting of the Values Axis is preserved when you change the position of the trellis row to the right side of the visualization.

Feature	Description
Copy and paste between projects	You can copy and paste a visualization or canvas from one project into another. See Copy and Paste a Visualization or Canvas .
Review location matches for a map visualization	You can review mismatch issues between data and match results in map layers, such as when there are ambiguous or partial matches between words. See Review Location Matches for a Map Visualization .
Create custom data action plug-ins	You can create custom data action plug-ins to use in Analytics Cloud. See Create Custom Data Action Plug-ins .
Font customizations	You can customize all title and label text in a visualization. Options include font (for example, Arial), type size, and emphasis (for example, bold, underline, or color). See Adjust Visualization Properties .
Create database connections with Kerberos authentication	You can configure these database connection types to use the Kerberos network authentication protocol: <ul style="list-style-type: none"> • Apache Hive • Hortonworks Hive • IBM Biginsights Hive • MapR Hive • Pivotal HD Hive See Create Database Connections with Kerberos Authentication .
Server-side SSL support	You can enable server-side SSL for these additional connection types: <ul style="list-style-type: none"> • Apache Hive • DB2 • Hortonworks Hive • IBM Biginsights Hive • MapR Hive • Pivotal HD Hive • Spark • SQL Server
Use remote data connections	You can use the Remote Data Connection option to access an on-premises database for these connection types: <ul style="list-style-type: none"> • Apache Hive • Impala • Spark

Pixel-Perfect Reporting

Feature	Description
Alternate URLs to access Publisher	Use these URLs to access Publisher: <ul style="list-style-type: none"> • <code>cloud_host/ui/xmlpserver</code> • <code>cloud_host/ui/analytics</code> URL to access Publisher's REST web services: <code>cloud_host/api/xmlpserver/services/rest/*</code> URL to access Publisher's SOAP web services: <code>cloud_host/public/xmlpserver/services*</code>

Feature	Description
Mandatory parameters in data models	In a data model, you can mark a parameter as mandatory. Publisher ensures that you provide values for mandatory parameters before you run a report online or schedule a report. See Add a New Parameter .
SSL support for web service and HTTP data sources	Use SSL to secure your connections to web service and HTTP data sources. You can upload and apply an SSL certificate to a connection. See Set Up a Connection to an HTTP Data Source and Set Up a Connection to a Web Service .

What's Fixed in 5.4.0 and Subsequent Patches

For a list of defects fixed in Oracle Analytics Cloud, see [Doc ID 2594388.1](#).

For a list of defects fixed in Oracle Analytics Cloud – Essbase, see [Doc ID 2587584.1](#).

Release 105.3.x

- [What's New in 105.3.7 - September 2019](#)
- [What's New in 105.3.0 - June 2019](#)
- [What's Fixed in 105.3.0 and Subsequent Patches](#)

What's New in 105.3.7 - September 2019

General

Feature	Description
Professional Edition	Oracle Analytics Cloud - Standard Edition is renamed to Professional Edition. See Professional, Essbase, and Enterprise Editions .

What's New in 105.3.0 - June 2019

Service Management

Feature	Description
More options to scale services	(Services deployed on Oracle Cloud Infrastructure) <ul style="list-style-type: none"> • Scale the number of Oracle Compute Units (OCPU) allocated to Essbase services up and down. See Scale Up or Down.
Redesigned Console	Improved design that's simple to navigate and easy to use.

Feature	Description
Redesigned System Settings page	A redesigned page that makes it easier for you to find and update advanced service-level settings. See Configure Advanced Options.

Visualizing Data

Feature	Description
Visualization types	You can create Language Narrative visualizations. See About Language Narrative Visualizations.
Tooltips improvement	Use the Tooltips field to adjust the content in a visualization's tooltips or to turn off a visualization's tooltips. See Modify a Visualization's Tooltips.
Refresh embedded data	You can configure the refresh of data in embedded HTML pages. See Refresh Data in Embedded HTML Pages.
Select alias table	You can select an alias table when creating or updating Essbase data sets. See Create Data Sets from Essbase Cubes.
Configure currency symbols	You can dynamically populate a currency symbol in visualizations based on the configured currency. See Set Currency Symbols for Visualizations.

Pixel-Perfect Reporting

Feature	Description
View audit data	You can enable or disable audit of reports and catalog objects. See Audit Reports and Catalog Objects.
Scale up and down	Some thresholds and limits associated with publishing vary, depending on the size of your deployment. See Plan Your Service.

Connecting to On-Premises Data Sources

Feature	Description
Connect more easily to on-premises data sources using Data Gateway	<p>Install Data Gateway in your on-premises environment on Linux, MacOS, or Microsoft Windows to connect to on-premises data sources. See Workflow for Connecting to On-Premises Data Sources.</p> <p>Introduction of Data Gateway and Deprecation of Remote Data Connector</p> <p>Oracle Analytics Cloud version 105.3 introduces the Data Gateway utility. This utility replaces the Remote Data Connector of earlier releases. Although you can continue to use Remote Data Connector, it's been deprecated as of Oracle Analytics Cloud 105.3 and will be removed in future releases no sooner than six months from the release date of 105.3. Oracle recommends adopting Data Gateway within six months of the release date of 105.3 to avoid loss of functionality.</p>

What's Fixed in 105.3.0 and Subsequent Patches

For a list of defects fixed in Oracle Analytics Cloud 105.3.x, see [Doc ID 2545288.1](#).

For a list of defects fixed in Oracle Analytics Cloud – Essbase 105.3.x, see [Doc ID 2544870.1](#).

Release 105.2.3 - May 2019

Service Management

Feature	Description
Pause and resume services	<p>Pause services you deploy on Oracle Cloud Infrastructure to prevent users from accessing the service.</p> <p>See Pause and Resume a Service.</p>

Release 105.2 - March 2019

Service Management

Feature	Description
Scale service up and down	<p>(Oracle Analytics or business intelligence services deployed on Oracle Cloud Infrastructure)</p> <p>Scale up the number of Oracle Compute Units (OCPU) allocated to your service to improve performance. Scale down to save costs or if your workload reduces.</p> <p>See Scale Up or Down.</p>

Feature	Description
Track usage	Track user queries and generate reports and visualizations to analyze the usage data. See Track Usage.
Additional service-level configuration	A range of configuration options for additional, advanced use cases are available through Console. See Configure Advanced Options.

Oracle Analytics

Feature	Description
Add notes	Add, edit, and adjust notes on a canvas. See Add Notes.
Enhanced column operations	Quickly reorganize items in the Projects, Data, and Machine Learning pages by sorting the items based on their attributes. See Sort the Items in a Page.
Data flow improvements	Employ improvements to data flows including: <ul style="list-style-type: none"> • Transform Data in a Data Flow • Schedule a Data Flow • Create and Customize an Essbase Cube in a Data Flow • Copy, Paste, and Skip Rules • Designation Change Rules for Generation Columns
Map improvements	Employ improvements to maps in visualizations including: <ul style="list-style-type: none"> • Create Cluster Layers on a Map Visualization • Represent Point Data With Custom Icons on a Map • Select Points or Area on a Map • Represent Line Data Using Size and Color on a Map
Connection improvements	<ul style="list-style-type: none"> • Create connections to the Snowflake Data Warehouse. See Create Connections to Snowflake Data Warehouse. • Create an Oracle Applications connection and use the credentials option of the active user. See Configure Impersonate User for the Use Active User's Credentials Option.
Specify filters for relative time periods	Display data for a specified time period based on the current date and time using the relative time filter on a Date or Date/Time column. See Apply Relative Time Filters.
Share files to LinkedIn	Share one or more of your project's visualizations, canvases, or stories to LinkedIn as a file. See Use LinkedIn to Share a File of a Visualization, Canvas, or Story.
Upload larger data files	Upload files with a maximum size of 250 MB. The number of data columns allowed in a single file is 250 columns. See About Adding Spreadsheets or Other Files.

Feature	Description
Generate larger reports	The maximum number of rows you can return from any data source query or export to various file formats increases to 2,200,000 rows of unformatted data and 50,000 rows of formatted data. The maximum limits for individual services vary, depending on the size of your deployment. See Plan Your Service .
Connect to on-premises databases	Visualize data in on-premises databases using the Use Remote Data Connector option. See Supported Data Sources (to find out supported remote database types, look for databases with a Y in the 'Remote Connection to Data Sets' column).

Pixel-Perfect Reporting

Feature	Description
Use data flows as data sources	Create pixel-perfect reports with data flows. See Create a Data Set Using a Data Visualization Data Flow .

Connecting to On-Premises Data Sources

Feature	Description
Connect to on-premises data sources much more easily using Remote Data Connector	Install Remote Data Connector in your on-premises Linux environment using Oracle Universal Installer. See Workflow for Connecting to On-Premises Data Sources .

Reporting in Dashboards and Analyses

Feature	Description
Modify data in tables	Users of a dashboard page or an analysis can modify the data they see in a table view (also known as "writeback").

What's Fixed in Release 105.2.0

For a list of defects fixed in Oracle Analytics Cloud, see [Doc ID 2522269.1](#).

For a list of defects fixed in Oracle Analytics Cloud – Essbase, see [Doc ID 2522690.1](#).

Release 105.1.4 – March 2019

Feature	Description
Oracle Analytics Cloud Subscription - Number of OCPUs	With Oracle Analytics Cloud Subscription, you can now subscribe to a set number of Oracle Compute Units (OCPUs). When you set up a service with this type of subscription, you specify the number of Oracle Compute Units (OCPUs) you want to deploy. See Create a Service with Oracle Analytics Cloud Subscription .

Release 105.1.1 - February 2019

Feature	Description
Oracle Analytics Cloud Subscription - Number of Users	A new way to subscribe and deploy Oracle Analytics Cloud on Oracle Cloud Infrastructure. With Oracle Analytics Cloud Subscription, you can subscribe to a set number of users. When you set up a service with this type of subscription, you specify the number of users you expect to use the service. See Create a Service with Oracle Analytics Cloud Subscription .

Release 105.1.0 – January 2019

Service Management

Feature	Description
Product name changes	Oracle Analytics Cloud: Name used for deployments on Oracle Cloud Infrastructure, previously known as Oracle Autonomous Analytics Cloud. Oracle Analytics Cloud - Classic: Name used for deployments on Oracle Cloud Infrastructure Classic, previously known as Oracle Analytics Cloud. See About Oracle Analytics Cloud Products .
Quick start deployment	Create trial instances faster. Set up Oracle Analytics Cloud on Oracle Cloud Infrastructure Classic with a single click. See Create a Trial Service with a Single Click .
Multiple identity domains	Oracle Identity Cloud Service supports multiple identity domains. When you set up Oracle Analytics Cloud, you're asked which identity domain one you want to use, if more than one is available in your environment See Create a Service (Oracle Analytics Cloud) .
Migrate Oracle Analytics Cloud environments	Migrate content easily between Oracle Analytics Cloud environments using snapshots. It doesn't matter whether Oracle Analytics Cloud is deployed on Oracle Cloud Infrastructure Classic or Oracle Cloud Infrastructure Classic. See Migrate Oracle Analytics Cloud Using Snapshots .
Migrate from Oracle BI Enterprise Edition 11g	Additional menu options in Console make migration easier. You can download a utility that exports content from Oracle BI Enterprise Edition 11g to a migration bundle (JAR file). After exporting your content, you can upload the migration bundle to Oracle Analytics Cloud using the Console. See Migrate From Oracle BI Enterprise Edition 11g .

Feature	Description
Snapshot enhancements	You can capture much more when you take a snapshot. You can take a snapshot of your entire environment (everything) or specify specific content that you want to back up or migrate (custom). Similar options are available on restore -- improving your backup, restore, and migration experience. See Options When You Take a Snapshot and Options When You Restore a Snapshot .
Data file migration utility	This utility moves data files from one Oracle Analytics Cloud environment to another. Sometimes, connection issues between the source and target environment can interrupt data file migration during snapshot restore. This utility offers you an alternative way to move your data files. See Migrate File-based Data .
Advanced service-level configuration	You can set configuration options required for advanced use cases through Console. See Configure Advanced Options .

Oracle Analytics

Feature	Description
Autonomous Data Warehouse connection enhancements	You can more easily create a connection to Oracle Autonomous Data Warehouse because key connection details are prepopulated from the selected client credentials zip file. See Create Connections to Oracle Autonomous Data Warehouse .
Autonomous Transaction Processing connections	You can create connections to Oracle Autonomous Transaction Processing. See Create Connections to Oracle Autonomous Transaction Processing .

Essbase - Release 12.2.1.1.115

Feature	Description
Calculation tuples	By selecting tuples, you can focus your calculations in the active Smart View grid, limiting their scope to specific slices of data in your cube. Tuple selection helps you optimize asymmetric grid calculations across dimensions, avoiding over-calculation. See Calculate Selected Tuples .
Performance Analyzer	The Performance Analyzer, available in the Console of the Essbase web interface, helps you monitor usage and performance statistics of your Essbase service. It reads Essbase log files behind the scenes and then creates .csv files of the Essbase activity data. You can then use the reporting tool of your choice to create charts and other visualizations of the data. See About Performance Analyzer
Layouts and MDX Reports	You can save ad hoc grid views as layouts, and you can save MDX queries as reports. See Analyze Data in the Web Interface .

Feature	Description
Ancestor position	<p>You can specify the ancestor position for hierarchies in ad hoc grids in Smart View, if you set the SSANCESTORONTOP configuration parameter in Essbase to TRUE. By default, this parameter isn't enabled, and the ancestor is positioned at the bottom. To enable it, see SSANCESTORONTOP in <i>Technical Reference for Oracle Analytics Cloud - Essbase</i>. See also 'Specifying Ancestor Position in Ad Hoc Grids' in <i>Working with Oracle Smart View for Office</i>.</p>
New gallery templates	<p>In the Files catalog, new gallery templates are available:</p> <ul style="list-style-type: none"> • Solve Order Performance—Technical cube comparing query performance using dynamic calculations versus using stored members and a calculation script. • Flip Sign—Technical cube demonstrating how to flip signs of data values during a data load to meet reporting requirements. • RFM Analysis—Marketing application demonstrating how to identify the most profitable customers based on metrics. • Currency Triangulation—Utility cube that uses a calculation script to triangulate currencies. • Consolidation Eliminations—Financial analysis application demonstrating how to identify and eliminate balances between two companies. • Organization Restatements—Financial analysis application demonstrating how to restate expenses after an organizational change. • CalcTuple Tuple—Technical cube showing how to optimize asymmetric grid calculations across dimensions. • Sample Dynamic Basic—Updated version of Sample Basic, configured in hybrid mode to efficiently calculate stored members that depend on dynamic members. Sample Basic is a cube that is commonly referenced in Essbase documentation. <p>Gallery templates are application workbooks you can use to build fully functional Essbase cubes. See <i>Explore the Gallery Templates</i>.</p>
Aggregate views	<p>You can create aggregation views to be generated automatically, according to dimension structure in an outline for an aggregate storage application. See <i>Create and Manage Cube Outlines Using the Web Interface</i>.</p>
Multi-cell drill through	<p>You can select multiple cells or multiple ranges of cells, and see the merged results in drill through. See <i>Analyze Cube Data with Drill Through Reports</i></p>
Oracle Autonomous Data Warehouse connection and Datasource	<p>In the Essbase web interface, you can create a connection and Datasource to Oracle Autonomous Data Warehouse using the Oracle Database type connection and Datasource. You can also upload the wallet files required for connecting to Oracle Autonomous Data Warehouse. See <i>Create a Connection and Datasource to Access Oracle Autonomous Data Warehouse</i></p>

Feature	Description
Alias tables	In the Essbase web interface, you can create alias tables. Aliases provide alternate names for members on an outline. Aliases are stored in one or more tables as part of a database outline. An alias table maps a specific, named set of alias names to member names. See Understand and Create Alias Tables .

Pixel-Perfect Reporting

Feature	Description
POV parameter in an MDX query	View an Essbase cube and filter data for reports. See Include a POV Parameter Value in an MDX Query .
Snapshot includes pixel-perfect reporting	Migrate the credentials, configurations, and scheduled jobs of pixel-perfect reporting from one environment to another. For custom migration, select the Jobs option if you want to migrate the scheduled pixel-perfect report jobs. See Take Snapshots and Restore .

For a list of defects fixed in Oracle Analytics Cloud release 105.1.0, see [Doc ID 2494345.1](#)

For a list of defects fixed in Oracle Analytics Cloud – Essbase 12.2.1.1.115, see [Doc ID 2496335.1](#)

Release 18.3.3 - September 2018

Service Management

Feature	Description
Fast setup for Oracle Analytics Cloud	Fewer setup steps and your service is ready to use in about 20 minutes! See Create Services with Oracle Analytics Cloud .
Console reorganization	(BI and Oracle Analytics services only) In the Console, all administrator-only options are reorganized under a Service Administration menu.

Essbase - Release 12.2.1.1.114

Feature	Description
Modern interface	The Essbase web interface is enhanced with a new look and improved usability.
Gallery templates	In the Files catalog, you can find gallery templates, which are application workbooks you can use to build fully functional Essbase cubes. Think of these templates as starter kits to learn about technical features and to model a variety of analytical problems across business domains. See Explore the Gallery Templates .

Feature	Description
Connections and data sources	Many Essbase cube operations require connection information, such as login details, to access remote data sources or hosts. You can define these connections and data sources once and reuse them in various operations, so that you don't have to specify the details each time you perform a task. See Use Connections and Data Sources .
Rules editor	You can use the enhanced rules editor to preview data from a data source or file while creating a rules file, use connections and data sources created in the interface, and define rules for dimension builds and data loads. See Build Dimensions and Load Data .
Efficient dynamic security filters	You can create filters on your applications to allow access to specific slices of your cube and reduce the number of filter definitions needed. See Create Efficient Dynamic Filters .
MDX query and script execution	In the Essbase web interface and in Smart View, you can execute free-form MDX queries to analyze cube data. You can also run saved MDX scripts to perform data export and import or to perform analysis in the context of a Smart View grid. See Analyze and Moving Data with MDX .
MaxL execution over HTTPS	Use the MaxL Client to securely manage Essbase cubes and artifacts using a language-based interface. See Manage Essbase Using the MaxL Client .
Scenario management calculation enhancements	<ul style="list-style-type: none"> • Calculation scripts without explicit FIX statements, when executed on scenario management enabled applications implicitly fix on the Base member. See Understand Scenario Calculations. • Calculation expressions that calculate a sub-hierarchy, such as @CHILDREN or @IDESCENDANTS weren't supported in an earlier release, but they are supported in this release. • If you execute a calculation script in Smart View from a scenario-launched Excel sheet, the calculation runs in the sandbox associated with the scenario as long as no sandbox is explicitly mentioned in the script. See View and Work With Scenario Data.
Outline editor enhancement	The outline formula editor includes a member tree and a function list from which you can pick members and calculation functions. See Create Member Formulas .
Calculation script editor enhancement	The calculation script editor now includes a member tree and a function list from which you can pick members and calculation functions. See Create Calculation Scripts .

Oracle Analytics

Feature	Description
Preparing data	You can use data transformation and enrichment recommendations to prepare your data before visualizing it. See Preparing Your Data Set in a Project .

Feature	Description
Visualization types	You can create Grid Heatmap, Picto, 100% Stacked Bar, Horizontal 100%, 100% Area, and Correlation Matrix visualizations.
Map layers and backgrounds	<ul style="list-style-type: none"> You can select a map background to use in a project. See Using Different Map Backgrounds in a Project. You can display multiple data series (different sets of dimensions and metrics) on a single map visualization in a project. See Applying Multiple Data Layers on a Single Map Visualization. You can use a heatmap as a data layer type on a map visualization to identify the density or high concentration of point values or metric values associated with the points. See Creating Heatmap Layers on a Map Visualization. You can make map backgrounds available to users. See Making Map Backgrounds Available to Users.
Essbase enhancements	<ul style="list-style-type: none"> You can branch a data flow and create multiple outputs or connections. See Branching Out a Data Flow into Multiple Connections. You can add parameter prompts to reuse a data flow across multiple sources or to use different criteria to process and select data. See Applying Parameters to a Data Flow. You can modify or select the database name, the attribute or measure, and the aggregation rules for each column of the output data set before running or executing a data flow. See Saving Output Data from a Data Flow.
Saving changes automatically	You can use the Auto Save option to automatically save your updates to a visualization project without repeatedly clicking Save . See Saving Your Changes Automatically .
Opening objects using keyboard shortcuts	You can use keyboard shortcuts to open artifacts in a new tab or window. See Keyboard Shortcuts .
Inspect object properties	You can use inspectors to view and edit the properties of standalone objects in the Home, Data, Projects, and other top-level pages. See Viewing and Editing Object Properties .
Data replication enhancements	<ul style="list-style-type: none"> Support for more data sources. See About Data Replication. Enhanced monitoring and troubleshooting. See Validating and Troubleshooting a Data Replication Flow.
Replace a data set in a project	Replace a data set by re-mapping columns used in a project to columns from a different data set. See Replacing a Data Set in a Project
Analyze subject areas	Use subject areas as data sources in data sets and data flows. See Creating a Project and Adding Data Set and Creating a Data Flow .
Enable users to search data sets using BI Ask	See Enabling Searching Using BI Ask .
Tooltips	Make visualizations more interactive with tooltips. See Identifying Content with Tooltips .
Embed data actions in external containers	Include data actions in embedded visualizations. See Creating Data Actions in Visualizations Embedded in External Containers

Pixel-Perfect Reporting

Feature	Description
Upload configuration-specific files	Use Upload Center in the Administration page to upload and manage configuration-specific files for font, digital signature, ICC profile, SSH private key, SSL certificate, and JDBC client certificate. See Uploading and Managing Configuration-Specific Files .
Password protect report outputs	Configure password protection for report outputs in DOCX, PPTX, and XLSX format. Use the Open password property at the system level or report level. See PPTX Output Properties , DOCX Output Properties , and Excel 2007 Output Properties .
Apply a digital signature in PDF documents	Upload the digital signature file in Upload Center, enable a digital signature in PDF reports, and specify the location for the digital signature in the PDF document. See Applying a Digital Signature in PDF Documents .
Use data sets from Oracle Analytics	Use data sets for pixel-perfect reports. See Creating a Data Set Using a Data Visualization Data Set .
Enable scalability in Excel templates to handle a large volume of data	Enable scalability in an Excel template to overcome the Microsoft Excel limitation of 65000 rows per sheet. See Enabling Excel Template Scalability .
Validate data model properties and SQL queries	Validate data model properties and optimize the SQL queries used for data sets, LOVs, and bursting definitions in data models. See Validating Data Models .
Optimize SQL queries	Use the Skip Unused Data Set Query , Optimize Query Execution , and Multithread Query Execution data model properties to optimize SQL queries. See Setting Data Model Properties .
Deliver reports in compressed format	Compress the output prior to delivery to reduce the output size. See Setting Output Options .
Request email notification when an email is delivered or read	Configure to receive email notifications when emails are delivered or read. See Report Output Destination Types .

Data Models

Feature	Description
Externalized database connections	Define database connections in Console and use them in Oracle Analytics Cloud Developer Client Tool. See Managing Database Connections for Data Modeler and Connecting to a Data Source using an External Connection .

Release 18.2.5 - June 2018

Feature	Description
Duplicate a data set	Duplicate an uploaded data set that is listed in the Data Sets page to help you further curate (organize and integrate from various sources) data in projects. See Duplicating Data Sets.
External communication over HTTP	(Essbase services only) You can handle all external communications over HTTPS without the need to open additional ports to communicate with Essbase. See Connecting to Essnet over HTTP.

Release 18.2.3 - May 2018

Feature	Description
Bring Your Own License	Leverage your existing on-premises license entitlement when you deploy Oracle Analytics Cloud in a user-managed environment. Get license support through your existing on-premises support contract. See Creating Services with Oracle Analytics Cloud.
Service creation	Database configuration made easier. The Schema Prefix field is no longer required. See Creating a Service.

Release 18.2.1 - April 2018

Feature	Description
Oracle Analytics Cloud	A fully managed version of Oracle Analytics Cloud that's quick to set up and requires minimal administration. About Oracle Analytics Cloud Products. To set up a service, see Create Services with Oracle Analytics Cloud.
MaxL Client utility in Essbase	A MaxL client utility is available to download and install from the Utilities section in Oracle Analytics Cloud – Essbase. If you use Oracle Analytics Cloud, this utility provides a way to execute MaxL statements for administration and querying with Essbase.

Service Management

Feature	Description
Service creation	Storage container configuration made easier. The fields Storage Service Base URL and Storage Container are combined into a single field Storage Container URL . See Creating a Service.

Feature	Description
Update the password for cloud storage	(BI and Oracle Analytics services) Update the password Oracle Analytics Cloud uses to access Oracle Cloud Infrastructure Object Storage Classic from the Console instead of using a script. Use the new Update Cloud Storage Password option on the Connections tab. See Updating the Cloud Storage Password.
Configure a public storage container for visualizations	Share visualizations through a public storage container. Specify the container you want to use from the Console instead of using a script. Use the new Edit option for Public Web Store on the Social tab. See Setting Up a Public Container to Share Visualizations.
Add one predefined application role to another	(BI and Oracle Analytics services) Oracle Analytics Cloud comes with several predefined applications roles. Use the new Add Predefined Member option to add one predefined application role to another. For advanced users only. See Adding One Predefined Application Role to Another (Advanced).
Update the database schema passwords	(BI and Oracle Analytics services) Use the script <code>reset_schema_password</code> to update the database administrator password used by BI and Oracle Analytics services. See Updating Database Credentials (BI Service Script).

Release 18.1.3 - February 2018

New features for Oracle Analytics Cloud-Classical.

Reports and Dashboards

Essbase Edition, Enterprise Edition

Feature	Description
Use agents to deliver content	Create agents that deliver your analysis, dashboards, and briefing books to specific recipients and to subscribers. See Enabling Content Delivery Through Agents and Automating Business Processes Using Agents.
Set up devices and individual delivery profiles	Configure one or more devices where you want alerts and content from Oracle Analytics Cloud to be delivered. Set up personal delivery profiles to suit your different needs. See Configuring Your Devices and Delivery Profile.
Manage your deliveries in one place	You can manage all your deliveries from the Console, that is, email deliveries and deliveries generated by agents.
Synopsis mobile app	Create and share instant analytics from data on your mobile devices. See What can I do with Oracle Analytics Cloud Synopsis?

Service Management

Feature	Description
Configure a public storage container during service creation	Share visualizations through a public storage container. Specify the container you want to use when you set up your service. See Creating a Service .
Update the password for cloud storage	Update the credentials Oracle Analytics Cloud uses to access Oracle Cloud Infrastructure Object Storage Classic. See Managing Credentials .
Connect to EssNet over HTTP	Connect from any software using Essbase Real Time Client (RTC) over HTTP protocol without needing to open ports or perform other configuration or communication. See Connecting to EssNet over HTTP .
Update the database passwords for Essbase services	Use a script to update the database administrator password for an Essbase service. See Updating Essbase Database Credentials .

Essbase

Feature	Description
Install Cube Designer from the scenarios page	You can download the Cube Designer installer directly from the Scenarios page in addition to the traditional installation from within Smart View. See Install the Smart View Cube Designer Extension .
Export MDX query output to the service	You can run MDX queries and have their metadata and data output results exported to saved structures on Essbase. This is an alternative to viewing the query output on a client. For syntax used to export an MDX query, see MDX Export Specification .

Release 17.4.5 - December 2017

New features for Oracle Analytics Cloud-Classical.

Service Management


Feature	Description
Oracle Identity Cloud Service integration	Secure your Oracle Analytics Cloud deployment using Oracle Identity Cloud Service. The Foundation Edition is available with all Cloud Accounts. See Managing Oracle Identity Cloud Service Users and Migrating LDAP-Based Services to Oracle Identity Cloud Service .
Load balancing	An Oracle managed load balancer is configured automatically for services using Oracle Identity Cloud Service. See About Oracle Cloud Infrastructure Load Balancing Classic .
Scale out and scale in	Scaling lets you add or remove resources for a service in response to changes in load. Default deployments include one node or "analytics server". You can add additional nodes if more resources are required, up to the maximum ten, until performance is satisfactory. See Scaling a Cluster .


Feature	Description
Configure a public storage area	Share visualizations through a public storage container. Use a script to specify the container you want to use. See Creating a Public Storage Container for Sharing Content .
Migrate content from Oracle BI Enterprise Edition 11g	Export content from Oracle BI Enterprise Edition 11g to an archive (BAR file). Upload the archive to Oracle Analytics Cloud. See Migrating from Oracle BI Enterprise Edition 11g .
Migrate content from Oracle BI Enterprise Edition 12c	Migrate content from Oracle BI Enterprise Edition 12c to Oracle Analytics Cloud. See Migrating From Oracle BI Enterprise Edition 12c .
Day by Day mobile app enhancements	<ul style="list-style-type: none"> • See key information about your data with chart insights. See How do I view insights about a chart? (Android) and How do I view insights about a chart? (iOS). • Connect with other Day by Day users in your organization using contacts suggested by the app. See How do I share and collaborate on a chart? (Android) and How do I share and collaborate on a chart? (iOS). • Invite your colleagues to try Oracle Analytics Cloud Day by Day. See How do I invite friends to use the app? (Android) and How do I invite friends to use the app? (iOS).

Oracle Analytics

Professional Edition, Essbase Edition, Enterprise Edition

Feature	Description
Brand new home page	Improved design that's simple to navigate and easy to use. Personalize your home page to suit the way you want to work.
Use machine learning to make predictions and intelligent suggestions	<p>You can use machine learning (ML) algorithms to show patterns and uncover insights in your data sets, and then add them to your visualizations.</p> <ul style="list-style-type: none"> • Self service ML for diagnostics analytics of attributes (Explain). • Use the Machine Learning catalog to manage your ML scripts and models. • Use data flows to score and predict data sets using ML models. • Create a custom scenario for attributes by applying ML models to a data set. <p>See Working With Machine Learning.</p>
Connect to more databases	<p>You can connect to several data sources:</p> <ul style="list-style-type: none"> • Oracle Autonomous Data Warehouse • Oracle Big Data Cloud • Oracle Talent Acquisition <p>See Connecting to Database Data Sources.</p>

Feature	Description
Data flow enhancements	<ul style="list-style-type: none"> • Merge the rows from two data sets. See Merging Rows in a Data Flow. • Create bins from a measure. See Creating a Binning Column. • Use binning attributes to group your data. See Creating a Group. • Use cumulative aggregate functions to group your data. See Adding Cumulative Values to a Data Flow. • Calculate additional rows with forecasted values by applying a Time Series Forecast calculation. See Adding a Time Series Forecast to a Data Flow. • Detect sentiment for a given text column by applying a sentiment analysis to your data flow. See Adding a Sentiment Analysis to a Data Flow. • Use filters to restrict your data. See Adding Filters to a Data Flow. • Build data sets from a predefined sequence. See Creating a Sequence. • Refresh your data regularly on a schedule. See Scheduling a Data Flow. • Load data into an Essbase cube. See Creating an Essbase Cube.
Improved narration and storytelling features	Use improved narration to make presenting your data stories even easier. See Building Stories .
Include links to related content in your project	Enhance visualizations by offering links to related content under a handy Data Actions menu. See Working with Data Actions .
Numeric values in file-based data sources uploaded as measures	When you upload a file based data source, columns containing numeric values are imported as measures with the number data type.
More display formatting options for numbers and dates	You can select from a wide range of number and date formats to choose the best display format for data in your visualizations. See Adjusting the Display Format of Date or Time Columns .
New properties area in the Data Panel	For quick and easy access, the properties of objects you select are displayed in the Data Panel. See Adjusting Visualization Properties .
More options to copy, paste, and duplicate	It's often quicker to copy visualizations than starting from scratch. You can paste within the same canvas and between canvases in the same project. Use the duplicate option to make copies of an object within the same canvas or to duplicate the entire canvas. See Adjusting the Canvas Layout .
Add unrelated data sets to the same project	Your projects can contain visualizations from multiple, unrelated data sets; that is, the data sets don't have to be joined.
Date and time intelligence	You can seamlessly transition through different levels of time hierarchies or granularities with ease.
Data warning indicator	Warning signs  indicate possible issues with your data. If you don't want to see any warnings in your projects you can hide them. Warnings never display in printed or shared output. See Visualization Data Warning Notification .

Feature	Description
Background maps	Use background maps to enhance your geographical visualizations. See Enhancing Visualizations with Map Backgrounds .
Coloring maps using attribute column values	You can use color features to interpret the measure columns and attribute values in projects that include map visualizations. See Interpreting Data Measure and Attribute Values by Color in Map Visualizations .
Data replication	Build content packs for Oracle Cloud applications such as Oracle Service Cloud (RightNow) by easily importing a database into a cloud database without needing extract-transform-load (ETL) tools. See Replicating Data for Visualization Projects .
Control access to projects	Finely control who can access individual shared projects. See Controlling Access to Your Projects .
Set up social channels for sharing content	Set up social channels, such as Twitter, Slack, so that content authors can easily share their visualizations with others. See Setting up Social Channels for Sharing Visualizations .
Improved sharing	Use the  to share a visualization, canvas, or story with others, as a file, by email, a printed page, on the cloud, Twitter, Slack, Public Web Store, and Oracle Content and Experience. You can also share a project or folder only in DVA format, as a file, by email, and on the cloud. See Importing and Sharing .
Embed visualizations in other applications	You can embed visualizations in a web page using web technology or Oracle JET. See Embedding Visualizations in Other Web Pages .

Reports and Dashboards

Essbase Edition, Enterprise Edition

Feature	Description
Create pixel-perfect reports	You can author, manage, and deliver highly formatted reports from your data. See Creating Pixel-Perfect Reports and Layouts and Publishing Reports . Users familiar with Oracle's on-premises product range might recognize this feature as Oracle BI Publisher.
Secure mail server connections for deliveries	Security options are available on the mail server connection you configure to deliver reports. See Setting Up an Email Server to Deliver Reports .

Data Modeling

Essbase Edition, Enterprise Edition

Feature	Description
Import and export data models	In Data Modeler, you can export a single data model to a JSON file and use the information in the file to recreate the model in another service. See Importing a Data Model and Exporting a Data Model.

Essbase

Feature	Description
Use new CLI commands and options	Create a stored local connection to use for streaming data load and dimension build. See Loading Dimensions and Data by Streaming from a Remote Database. Control data-transfer compression options during file upload and download. See CLI commands upload and download.
Use calculation and partitioning enhancements	Calculation in hybrid mode is improved to work more efficiently when some intersections have #Missing values. Calculation tracing is improved to work better with complex IF statements, and with hybrid mode calculations. Support is added for tracing implicit assignments. Partitioning is simplified for single-instance Essbase deployments. If all cubes involved in a partition are hosted on the same instance of Oracle Analytics Cloud - Essbase, then no login credentials are needed as part of the partition setup. You must be signed in on the data target, and also provisioned on the data source. See Connecting Cubes. Additionally, the @XREF and @XWRITE calculation functions have expanded syntax so that you can either incorporate values from a remote cube, or from another cube on the same Essbase instance.
Use Scenario Management enhancements	You can revert scenario values to the base values. See Reverting Scenario Values Back to Base Values. You can change scenario values to #Missing. See Setting Scenario Cells to #Missing.
Use Cube Designer enhancements	You can validate formulas in the Cube Designer Formula Editor. Validation works against existing cubes in the cloud service. It doesn't detect application workbook changes that haven't been applied to the cube. See Creating and Validating Member Formulas in Cube Designer. In Cube Designer Hierarchy Viewer, you can display duplicate members in more than one dimension.

Release 17.3.5 - September 2017

New features for Oracle Analytics Cloud Classic.

Service Management

Feature	Description
Scale up storage volumes	If you run out of disk space, it's easy to add more storage. See Scaling Storage .

Oracle Analytics

Feature	Description
Creating and Managing Data Sources	
New data source connections	The following connection types are available, have limited support, and are marked as Beta in the user interface: OData, Oracle Docs, JDBC, and ODBC.
Data Source editor	Previously you used the Data Source dialog to create or edit data sources. The Data Source dialog is replaced by the Data Source editor, which provides the same functionality but is more dynamic and easier to use. See Using the Data Source Editor .
CSV and text file delimiters	When uploading CSV and text files for data sources, you can specify a delimiter. Your choices are: Comma, Semicolon, Space, Tab, and Custom. If you select Custom, you then specify the delimiter used in your CSV file.
Subject areas as data sources	You can build data sources from Oracle Cloud Applications with Oracle Transactional Business Intelligence or Oracle BI EE subject areas. See Composing Data Sources from Subject Areas .
Data flow improvements	<p>You can save a data flow as a database connection, which stores the data flow data to a database table. See Saving Data Flow Output Data to a Database.</p> <p>You can merge two or more columns in a data flow to display as one column. See Merging Columns in a Data Flow.</p> <p>The Data Flow editor layout is easier to use. See Using Data Flows to Curate Data Sources.</p>
Creating and Working With Projects	
Visualization types	You can create box plot, horizontal box plot, and waterfall visualizations.
Apply top or bottom N filters	You can use the top or bottom N filter to filter a measure to display a subset of its largest or smallest values. See Applying Top or Bottom N Filters .
Date and time column improvements	<p>You can convert a text column into a true date, time, or timestamp column. See Converting Text Columns to Date or Time Columns.</p> <p>You can adjust the display format of a date or time column to show a different level of granularity. See Adjusting the Display Format of Date or Time Columns.</p>
Canvas duplication and multi-canvas reordering	You can duplicate an existing canvas on a visualization and use the duplicate canvas as a starting point for a similar canvas. You can also manually reorder the sequence of multiple canvases in a visualization. See Adjusting the Canvas Layout .

Feature	Description
Support for event data at second or millisecond grain	Line visualizations can show a continuous date-time reading on the x-axis. You can analyze data at the second or millisecond grain. Previous versions of Oracle Analytics supported analyzing data at the day grain, only.
Custom map layers support	You can load and manage custom map layers in a project using geometric JSON files. See Adding Custom Map Layers .

Reports and Dashboards

Feature	Description
Custom themes	Change the default reporting user interface logo, heading, and styles. See Applying Custom Logos and Dashboard Styles .
Localized captions	Provide reporting strings in multiple languages. See Localizing Presentation Catalog Captions .
Oracle Planning and Budgeting	Analyze Oracle Planning and Budgeting data. See Reporting With Data From Oracle Planning and Budgeting Cloud Services .
Smart View	Deploy your dashboards and analyses in Microsoft Office using Smart View. See Smart View and Oracle Analytics Cloud .

Data Modeling

Feature	Description
Upload data models directly from Oracle BI Enterprise Edition	Redeploy data models from Oracle BI Enterprise Edition, so that you don't have to start your data modelling from scratch. See Uploading Data Models from Oracle BI Enterprise Edition .
Edit data models in the cloud	If you've redeployed a data model from Oracle BI Enterprise Edition, you can edit it directly in the cloud using Oracle BI Administration Tool. See Editing a Data Model In The Cloud Using BI Administration Tools .

Essbase

Feature	Description
Use new CLI commands and options	Use new Essbase Command Line Interface (CLI) commands: script, listfilters, listlocks, start, stop. Use streaming data load and dimension build options. See Essbase Command-Line Interface (CLI) .
Run MaxL Statements	Execute MaxL statements from the CLI and from Jobs. See Executing MaxL Statements .
Create measures dimensions using column headers	Use formulas in tabular data column headers to create measures dimensions with calculated data during the transformation process. See About Using Tabular Data to Create Cubes .

Feature	Description
Export cube files to your cloud service instance	When exporting a cube to an application workbook, you can save the exported cube files to your cloud service instance. See Exporting a Cube to an Application Workbook .
Aggregate based on unit weight	Using the @WEIGHTEDSUMX calculation function, you can aggregate all members in a member list, depending on the unit weight of each member. @WEIGHTEDSUMX improves the performance of aggregating currency databases by calling the calculation framework only once. See @WEIGHTEDSUMX .

Release 17.3.3 - August 2017

New features for Oracle Analytics Cloud-Classical.

Essbase

Feature	Description
Edit load rules for dimension build and data load using SQL as a source	Create Essbase dimension build and data load rules, connect to an RDBMS, and load dimensions and data from SQL to an Essbase cube. See Loading Data Using a Rules File and Loading Dimensions and Data using SQL .
Drill through to RDBMS	Using data in an existing Essbase cube, drill through to an external data source. See Analyzing Data with Drill Through Reports .
Manage cubes using Cube Designer and application workbook enhancements	<ul style="list-style-type: none"> Define data loads and dimensions builds using application workbooks; set file delimiters, skip rows, and ignore columns; change the sign for members during data load. See About Application Workbooks. Delete applications and cubes. Service administrators can delete any application or cube in the cloud service from Cube Designer. Power users can delete applications and cubes that they created. Search for members in the Hierarchy Viewer. See Viewing Dimension Hierarchies in Cube Designer. Add generation names to application workbooks with the click of a button in the Cube Designer wizard. See Working with Dimension Worksheets in Cube Designer and Understanding the Cube Generations Worksheet. Run asynchronous jobs, such as loading data, building dimensions, running MaxL scripts and calculations, and clearing data in the background as a unique thread. Add text-based measures to application workbooks. You can add up to 32,766 text list values in a text list object. See Working with Text Lists Worksheets in Cube Designer. Export data and calculation scripts when exporting cubes to application workbooks, either from the cloud service, or from Cube Designer. See Exporting a Cube to an Application Workbook and Exporting Cubes to Application Workbooks in Cube Designer.

Feature	Description
Use MDX enhancements	<ul style="list-style-type: none"> Nested SELECT clauses are supported on block storage as well as aggregate storage cubes. See MDX Sub Select. Use an MDX Insert clause to update a database with new data, by inserting tuples from a source to a target. See MDX Insert Specification.
Use calculation and partitioning enhancements	<ul style="list-style-type: none"> Trace calculations to analyze member formula processing and refine your calculation scripts. See Tracing Calculations. Create a location alias which you can later use to incorporate values of a source cube into your current, target cube. See Connecting Cubes. Create transparent partitions to connect cubes. Replicated partitions are also available. See Connecting Cubes. Change member solve order using Smart View.
Keep a data audit trail	Track changes to cube data, including changes to cell data, adding notes, attaching files, and referencing URLs. Export your log to an Excel spreadsheet, and perform ad hoc queries. See Tracking Changes to Data.
Store password for CLI session	Set and store a password in the Essbase Command Line tool. See Essbase Command-Line Interface (CLI).
Download script templates	Download sample MaxL scripts, calculation scripts, and batch scripts from Utilities, in the Sample Utility Scripts package. See the Readme in that package for more information.

Recent Product Updates

Here's an overview of new product deployment options for Oracle Analytics Cloud, including region availability updates.

November 2020

Update	Description
Available in Dubai	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in UAE East (Dubai). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .

September 2020

Update	Description
Available in San Jose	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in US West (San Jose). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .

August 2020

Update	Description
Oracle Analytics Cloud available in UK Government region	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in UK Gov South (London) and UK Gov West (Newport). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .

July 2020

Update	Description
Number of users per month subscriptions	New way to set up and size Oracle Analytics Cloud deployments. See What Sizing Options Are Available to You? .
Available in Chuncheon	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in South Korea North (Chuncheon). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .
Discover important network and security information for Oracle Analytics Cloud instances more easily	A new tab in Oracle Cloud Infrastructure Console displays the host name, IP address and gateway IP address of your Oracle Analytics Cloud instance, plus useful information about the identity provider (Oracle Identity Cloud Service). See Find the IP Address or Host Name of Your Oracle Analytics Cloud Instance .
Deploy Oracle Analytics Cloud with a private endpoint	Restrict access to Oracle Analytics Cloud through a private endpoint. Private access means that traffic doesn't go over the internet. Private access can be from hosts within your virtual cloud network (VCN) or your on-premise network. See Deploy Oracle Analytics Cloud with a Private Endpoint .
Use access control rules to restrict access to Oracle Analytics Cloud with a public endpoint	If you deploy Oracle Analytics Cloud with a public internet accessible endpoint, you can restrict access through one or more rules. See Restrict Access to Oracle Analytics Cloud Deployed with a Public Endpoint .

June 2020

Update	Description
Available in Hyderabad	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in India South (Hyderabad). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .

May 2020

Update	Description
Available in Jeddah	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in Saudi Arabia West (Jeddah). See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .

April 2020

Update	Description
Available in Amsterdam, Melbourne, Montreal, and Osaka	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in several more regions: <ul style="list-style-type: none"> • Australia Southeast (Melbourne) • Canada Southeast (Montreal) • Japan Central (Osaka) • Netherlands Northwest (Amsterdam) See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) .

March 2020

Update	Description
Available on Oracle Cloud Infrastructure Gen 2 in London, Frankfurt, and Zurich	Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in several more regions: <ul style="list-style-type: none"> • Germany Central (Frankfurt) • UK South (London) • Switzerland North (Zurich) See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2) . The way you deploy and manage Oracle Analytics Cloud on Oracle Cloud Infrastructure Gen 2 is different to the current deployment process in London and Frankfurt. If your Oracle Cloud account started before 2nd March 2020 and you currently manage Oracle Analytics Cloud environments in EMEA, this roll-out introduces a new administrative user experience. That is, there is a new way to perform administrative tasks such as create, start, stop, scale, and delete services. <ul style="list-style-type: none"> • Administrators can create and manage their Oracle Analytics Cloud environments using the new administration pages offered with Oracle Cloud Infrastructure Gen 2. • Administrators can continue to create and manage their Oracle Analytics Cloud environments using the current administration pages. For details, see FAQs - Managing Services in North America and EMEA .

February 2020

Update	Description
Available on Oracle Cloud Infrastructure Gen 2 in North America (Ashburn, Phoenix, and Toronto)	<p>Oracle Analytics Cloud rolls out on Oracle Cloud Infrastructure Gen 2 in several more regions:</p> <ul style="list-style-type: none">• US East (Ashburn)• US West (Phoenix)• Canada Southeast (Toronto) <p>See Administering Oracle Analytics Cloud on Oracle Cloud Infrastructure (Gen 2).</p> <p>The way you deploy and manage Oracle Analytics Cloud on Oracle Cloud Infrastructure Gen 2 is different to the current deployment process in North America. If your Oracle Cloud account started before 14th February 2020 and you currently manage Oracle Analytics Cloud environments in North America, this roll-out introduces a new administrative user experience. That is, there is a new way to perform administrative tasks such as create, start, stop, scale, and delete services.</p> <ul style="list-style-type: none">• Administrators can create and manage their Oracle Analytics Cloud environments using the new administration pages offered with Oracle Cloud Infrastructure Gen 2.• Administrators can continue to create and manage their Oracle Analytics Cloud environments using the current administration pages. <p>For details, see FAQs - Managing Services in North America and EMEA.</p>

January 2020

Update	Description
Oracle Analytics Cloud – Essbase	<p>Statement of Direction</p> <p>Oracle Analytics Cloud – Essbase Edition is no longer available in Oracle Cloud accounts created after 12th December 2019. Instead, Oracle Essbase is now available on Oracle Cloud Marketplace. See: https://docs.oracle.com/en/database/other-databases/essbase/19.3/index.html</p> <p>Any Oracle Cloud account created before 12th December 2019 that includes Oracle Analytics Cloud – Essbase Edition, remains unchanged.</p>

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Oracle® Cloud What's New for Oracle Analytics Cloud
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