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Chargeback Administration

Introduction

Chargeback is used to allocate the costs of IT resources to the people or organizations who consume them. Organizations are adopting consolidation platforms such as Oracle Exadata, where there are multiple applications running on a shared hardware platform. Use this feature to meter the resources consumed by each application so that charges can be applied accurately. This, in turn, helps to measure the business value of IT investments so that priority can be given to the applications with the greatest return on investment (ROI).

Adopting a Chargeback (or Showback) model can deliver significant benefits to both IT and Line of Business users:

- Chargeback benefits consumers by placing them in control of their IT costs.
- Chargeback benefits IT by helping to drive up utilization rates, thus reducing the number of physical resources they need to manage.

Objectives

To enable users to configure and implement chargeback for their Exadata Systems within Oracle Enterprise Manager

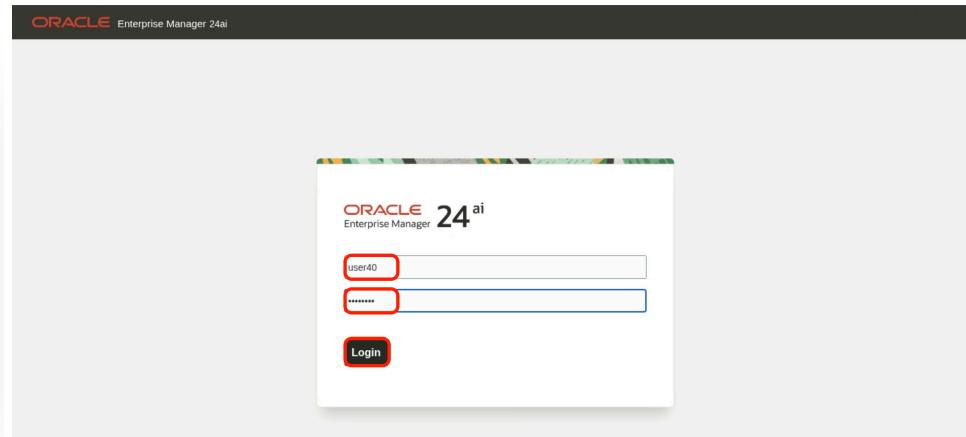
- Learn how to create a charge plan, cost center and associate a target to a specific charge plan
- Analyze reports detailing the consumption and associated charges

Estimated Time: 20 minutes

Collapse All Tasks

Task 1: Launch Chargeback Home page

1. Log into Enterprise Manager



2. Click the **hamburger menu** icon.



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3. Navigate to Enterprise > Chargeback.

4. Minimize the Getting Started as shown below

5. Explore Chargeback homepage

Provides the summary of the chargeback showing number of different target types that are assigned to a charge plan, number of cost centers and users & entities that are being tracked for the chargeback.



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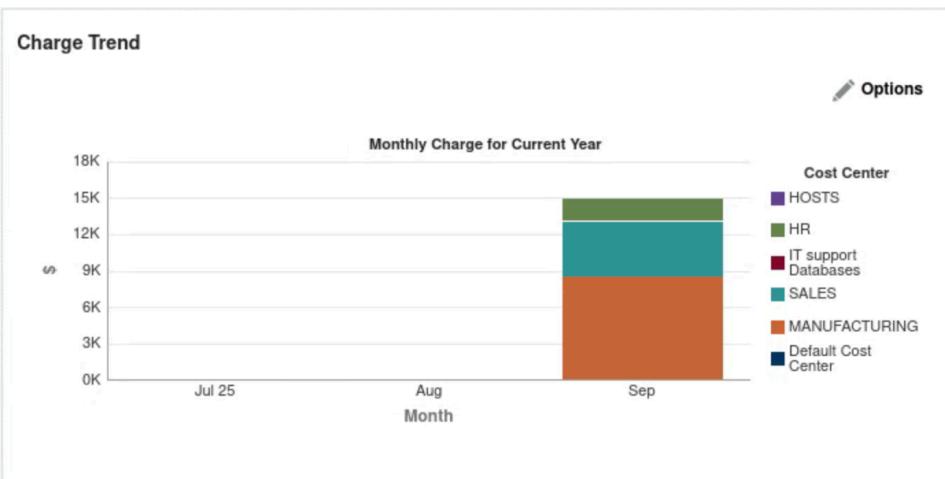
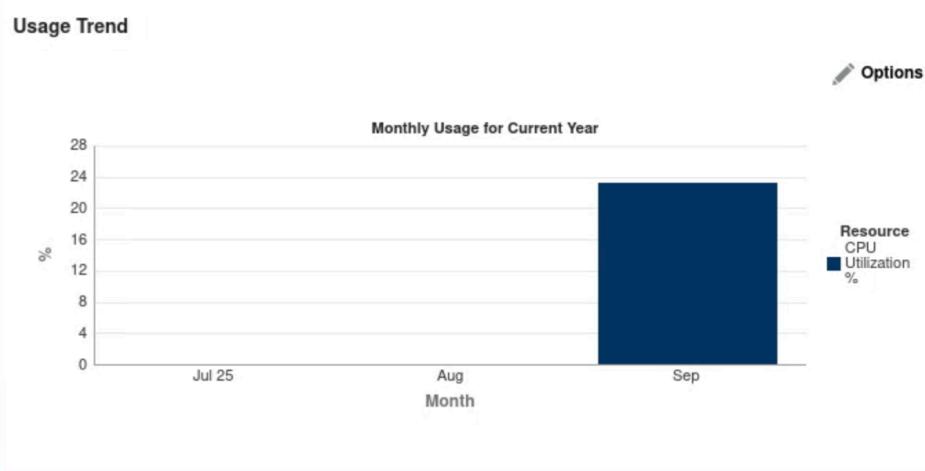
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Charge Plans	Cost Centers and Users	Entities
Universal Charge Plan 1	Organizations 15	Total Entities Tracked 157
Extended Charge Plans 2	Users 11	Entities without Cost Center 0
		Entities without Charge Plan 0

Chargeback dashboard provides an overview of monthly CPU utilization and charge trends across top-level cost centers.



In the lower-left corner, you can find information about data collection, problems, and settings. You can define peak and off-peak hours and change the currency symbol. Note that the currency symbol is only a display sign and does not affect calculations. In this environment, the symbol used is \$.

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Peak Times
Set up peak hours so that different charge rates can be defined for peak hours and off peak hours.

Currency ⓘ

The currency symbol is displayed on Chargeback pages. It is used only as a symbol and does not have any impact on Chargeback calculations.

* Currency Symbol

Uptime Calculations ⓘ

Uptime Calculations Uptime ignored in calculations for charges
 Uptime included in calculations for charges

Task 2: Explore charge plans and cost center tabs

- Click on the **Charge Plans** tab

Chargeback

Home **Charge Plans** Cost Centers Entities Reports

Getting Started

Charge Plans	Cost Centers and Users	Entities
Universal Charge Plan 1	Organizations 15	Total Entities Tracked 157
Extended Charge Plans 2	Users 11	Entities without Cost Center 0
		Entities without Charge Plan 0

Peak Times
Set up peak hours so that different charge rates can be defined for peak hours and off peak hours.

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* Currency Symbol

Uptime Calculations ⓘ

Uptime Calculations Uptime ignored in calculations for charges
 Uptime included in calculations for charges

Resource Usage

Charge Trend

Monthly Charge for Current Year

Cost Center: HOSTS, IT Support, SALES, MANUFACTURING, Default Cost Center

Universal charge plan establishes rates for three basic metrics (CPU, memory, and storage)

Extended charge plan enhances the universal plan to include entity-specific metrics

In this environment, the rate is set to \$11 in the universal plan:

- CPU is charged per hour
- Memory is charged per GB/week
- Storage is charged per GB/month

Both the rate and the time interval can be modified as needed.

Chargeback

Home **Charge Plans** Cost Centers Entities Reports

Create Set Rates... Delete... Estimate... Plan Advisor Import Export Charge Item Library

Charge Plans

View

Universal Charge Plan Sep 1, 2025 - Onward

HOST PLAN Sample Charge Plan

Universal Charge Plan: Sep 1, 2025 - Onward

Metric	Type	Rate
CPU Usage	Default CPU Architecture	\$11.00 / CPU/ Hour
Memory Allocation	Generic	\$11.00 / GB/ Week
Storage Allocation	Generic	\$11.00 / GB/ Month

We have created **extended charge plan for the Host**, and similarly extended plans can be added to include entity-specific metrics, enhancing the universal plan for more precise charge calculations.



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The screenshot shows the Oracle Enterprise Manager interface for Chargeback Administration. On the left, there's a navigation sidebar with various lab sections. The main area is titled 'Charge Plans'. It shows a tree view with 'Universal Charge Plan', 'HOST PLAN' (selected), and 'Sample Charge Plan'. Under 'HOST PLAN', it shows 'Sep 1, 2025 - Onward' and 'Host' (which is highlighted with a red box). To the right, a detailed view of the 'HOST PLAN: Sep 1, 2025 - Onward: Host' is shown. This view includes sections for 'Default Configuration' (with a 'Charge' column), 'Universal Rate Adjustments' (with rows for CPU Rate Factor, Memory Rate Factor, and Storage Rate Factor, all set to 0.001x), 'Recovery Cost' (with Recovery Rate, Recovery Period, and Estimated Instances), and a 'Total' row.

To view entity-specific metrics click on the **Charge Item Library**

This screenshot shows the 'Chargeback' interface in Oracle Enterprise Manager. The top navigation bar has tabs for Home, Charge Plans (which is selected and highlighted in blue), Cost Centers, Entities, and Reports. Below the navigation, there's a 'Charge Plans' section with a tree view similar to the previous screenshot. To the right, a detailed view of the 'HOST PLAN: Sep 1, 2025 - Onward: Host' is shown, mirroring the structure and data from the first screenshot.

This screenshot shows the 'Charge Item Library' interface. The top navigation bar has tabs for Home, Charge Plans, Cost Centers, Entities, and Reports. The 'Charge Plans' tab is selected. Below the navigation, it says 'Charge Plans > View Charge Items'. The main area is titled 'Charge Item Library' and contains a table with columns for Entity Type, Item, Resource Category, Unit, Source Type, Chargeable, Universal, User-Defined, Active, Metric Group, Metric Column, and Item Description. The table lists various system components like Host, CPU, Memory, and OS, along with their specific metrics and configuration details.

2. Click on the **Cost Centers** tab

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Metric	Type	Rate
CPU Usage	Default CPU Architecture	\$1.00 / CPU / Hour
Memory Allocation	Generic	\$1.00 / GB / Week
Storage Allocation	Generic	\$1.00 / GB / Month

Cost centers follow a hierarchical structure, with all costs rolled up to the All Users cost center. You can import the cost center hierarchy from a legacy LDAP system or create a separate hierarchy in Chargeback with suitable names.

Cost Center	Display Name	Category	Direct Users	Total Users	Direct Entities	Total Entities	Direct Charge	Total Char
All Users	Root	Internal	0	11	0	157	\$0	\$14940

To expand the cost center hierarchy, select **View > Expand All**.

We can now see three groups of cost centers: **SALES, HA, and Manufacturing**. Both SALES and Manufacturing are organized into regional hierarchies, and within each region, there are separate prod and test environments.



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Cost Center and Charge Plan Assignment for Entities

Entity Name	Entity Type	Charge Plan	Cost Center	Charge Trend
emrep.rsthybird.oracle.com	Database Instance	Universal Charge Plan	IT support Databases	
exa02cdb1db1	Cluster Database	Universal Charge Plan	SALES	
exa02cdb1db10	Cluster Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db10_CDBROOT	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db10_PDB1	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db11	Cluster Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db11_CDBROOT	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db11_PDB1	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db12	Cluster Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db12_CDBROOT	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db12_PDB1	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db1_CDBROOT	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_PROD	
exa02cdb1db1_PDB1	Oracle Pluggable Database	Universal Charge Plan	SALES	
exa02cdb1db2	Cluster Database	Universal Charge Plan	SALES_NA_TEST	
exa02cdb1db2_CDBROOT	Oracle Pluggable Database	Universal Charge Plan	SALES_NA_TEST	

3. Workflow of adding entities starts and now click on **Add** to select the target

ORACLE Enterprise Manager 24ai

Chargeback

Select Targets and Usage Modes

Add Entities: Select Targets and Usage Modes

Select the targets for Chargeback and identify the usage mode if needed.

View **+ Add...** Remove

Target Name	Target Type	Usage Mode	Charge Entity Type	Members	Valid
No data to display.					

Chargeback Entities

You must select the targets that will be configured for Chargeback. Chargeback is available on the following basic target types:

- Host
- VM Guest
- Database Instance
- WebLogic Server

You can choose to enable Chargeback on individual target instances or on aggregate targets. For example, selecting Cluster Database or WebLogic Domain will automatically enable Chargeback for all relevant Database instances or WebLogic servers respectively. You can also enable Chargeback on Systems and Groups that contain these target types.

You should select any zones that you have configured for use in the Self-Service Portal on this page.

In the pop-up window for selecting a target, filter by Target Type. First, uncheck **All**, and then check only **Database Instance**.

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Chargeback

Select Targets

Search

Target Type: Database Instance

Target Name	On Host	Status
/EMGC_GCI	Cluster Database	N/A
/EMGC_GCI	Exadata Infrastructure	N/A
/EMGC_GCI	Generic System	N/A
/EMGCEXT	Group	N/A
/EMGCEXT	Host	N/A
/EMGCEXT	Java Virtual Machine	N/A
/EMGCEXT	Java Virtual Machine Pool	N/A
/EMGCEXT	JVM	N/A
/EMGCEXT	Oracle WebLog...	N/A

Chargeback Entities

You must select the targets that will be configured for Chargeback. Chargeback is available on the following basic target types:

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You should select any zones that you have configured for use in the Self-Service Portal on this page.

Click **Search**



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Target Name	Target Type	On Host	Status
exa02cdb1db1_cdb1db11	Database Instance	exa02badm01...	
exa02cdb1db1_cdb1db12	Database Instance	exa02badm02...	
exa02cdb1db10_cdb1db101	Database Instance	exa02badm03...	
exa02cdb1db10_cdb1db102	Database Instance	exa02badm04...	
exa02cdb1db11_cdb1db111	Database Instance	exa02badm05...	

Select one target of your choice and then click **Select**

Target Name	Target Type	On Host	Status
exa02cdb1db1_cdb1db11	Database Instance	exa02badm01...	
exa02cdb1db1_cdb1db12	Database Instance	exa02badm02...	
exa02cdb1db10_cdb1db101	Database Instance	exa02badm03...	
exa02cdb1db10_cdb1db102	Database Instance	exa02badm04...	
exa02cdb1db11_cdb1db111	Database Instance	exa02badm05...	

Click **Next**

Target Name	Target Type	Usage Mode	Charge Entity Type	Members	Valid
exa02cdb1db1_cdb1db11	Database Instance	Metered by Inst.	Database Instance	0	<input checked="" type="checkbox"/>

Select the target and then Click on **Assign Plan**



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Add Entities: Make Assignments

Assign cost center and charge plan to the entities

Action View Assign Plan Assign Cost Center

Entity Name	Entity Type	Usage Mode	Charge Plan	Cost Center
exa02ccb1db1_cdb10b11	Database Instance	Metered by Instance		

Assignments

To complete the setup, the targets and shared entities that you have added need to have a charge plan and cost center assigned to them. <input type="radio"> Charge plan assignment will determine how the charges for the target or shared entity will be calculated. If a charge plan is not assigned directly to a target, it is inherited from the closest parent with a plan assignment. For example, setting a plan on a WebLogic Domain will result in all WebLogic Servers in the domain using the plan.</input>

For self service zones, set the charge plan on the zone.

<input type="radio"> Cost center assignment will determine which cost center the charges will be allocated to. Targets that have not been created through self service should have the cost center assigned in this step.</input>

Do not set the cost center on self service target.

Select Universal Charge Plan and click OK

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Chargeback

Select Targets and Usage Modes Make Assignments Review

Add Entities: Make Assignments

Assign cost center and charge plan to the entities

Action View Assign Plan Assign Cost Center

Entity Name	Entity Type	Usage Mode	Charge Plan	Cost Center
exa02ccb1db1_cdb10b11	Database Instance	Metered by Instance	Universal Charge Plan	

Assign Plan

Action Type Propagate Override

Charge Plan Start Date

Universal Charge Plan Sep 1, 2025

Tip Changes apply from the beginning of the reporting cycle (2025-09-01)

Tip Choosing 'Propagate' option will propagate selected charge plan to its member entities having no charge plan assigned. Choosing 'Override' option will override the charge plan for all the member entities with selected charge plan.

Assignments

To complete the setup, the targets and shared entities that you have added need to have a charge plan and cost center assigned to them. <input type="radio"> Charge plan assignment will determine how the charges for the target or shared entity will be calculated. If a charge plan is not assigned directly to a target, it is inherited from the closest parent with a plan assignment. For example, setting a plan on a WebLogic Domain will result in all WebLogic Servers in the domain using the plan.</input>

For self service zones, set the charge plan on the zone.

<input type="radio"> Cost center assignment will determine which cost center the charges will be allocated to. Targets that have not been created through self service should have the cost center assigned in this step.</input>

Do not set the cost center on self service target.

Select the target and then Click on Assign Cost Center

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Chargeback

Select Targets and Usage Modes Make Assignments Review

Add Entities: Make Assignments

Assign cost center and charge plan to the entities

Action View Assign Plan Assign Cost Center

Entity Name	Entity Type	Usage Mode	Charge Plan	Cost Center
exa02ccb1db1_cdb10b11	Database Instance	Metered by Instance	Universal Charg...	

Assign Cost Center

Action Type Propagate Override

Display Name

- ▶ IT Support Databases
- ▶ HOSTS
- ▶ SALES
 - ▶ SALES_NA
 - SALES_NA_PROD**
 - ▶ SALES_NA_TEST

Columns Hidden 1

Tips

Assignments

To complete the setup, the targets and shared entities that you have added need to have a charge plan and cost center assigned to them. <input type="radio"> Charge plan assignment will determine how the charges for the target or shared entity will be calculated. If a charge plan is not assigned directly to a target, it is inherited from the closest parent with a plan assignment. For example, setting a plan on a WebLogic Domain will result in all WebLogic Servers in the domain using the plan.</input>

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<input type="radio"> Cost center assignment will determine which cost center the charges will be allocated to. Targets that have not been created through self service should have the cost center assigned in this step.</input>

Do not set the cost center on self service target.

Select SALES_NA_PROD cost center and click OK

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Chargeback

Select Targets and Usage Modes Make Assignments Review

Add Entities: Make Assignments

Assign cost center and charge plan to the entities

Action View Assign Plan Assign Cost Center

Entity Name	Entity Type	Usage Mode	Charge Plan	Cost Center
exa02ccb1db1_cdb10b11	Database Instance	Metered by Instance	Universal Charg...	

Assign Cost Center

Action Type Propagate Override

Display Name

- ▶ IT Support Databases
- ▶ HOSTS
- ▶ SALES
 - ▶ SALES_NA
 - SALES_NA_PROD**
 - ▶ SALES_NA_TEST

Columns Hidden 1

Tips

Assignments

To complete the setup, the targets and shared entities that you have added need to have a charge plan and cost center assigned to them. <input type="radio"> Charge plan assignment will determine how the charges for the target or shared entity will be calculated. If a charge plan is not assigned directly to a target, it is inherited from the closest parent with a plan assignment. For example, setting a plan on a WebLogic Domain will result in all WebLogic Servers in the domain using the plan.</input>

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Do not set the cost center on self service target.



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Note: Since all workshop attendees are using the same Enterprise Manager environment, it is not possible to click Submit. Instead, click Cancel.

Note:

Metrics for the targets that have been added to Chargeback are collected from the Enterprise Manager repository on a daily schedule. Hence, it may take up to 24 hours before charge data appears for any targets that have been added. After the collection job has run, the usage and charge data for configured targets will be available from the Reports tab.

4. Review other tabs in the Entities page

Select any target and on selection shows the collected data under different tabs within Entities page as explained below

Here for the flow we have selected target emrep.rsthybrid.oracle.com



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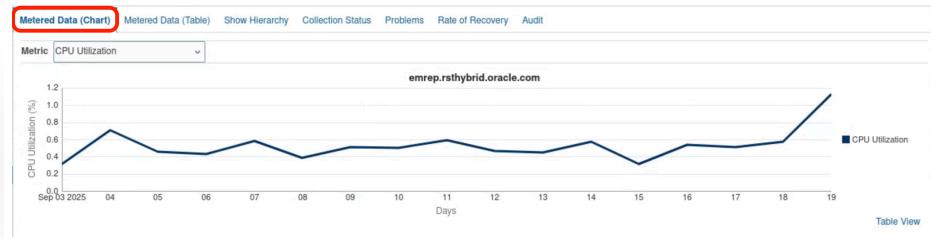
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- Metered Data (Chart) : View a times series graph of data metrics for the entity



For the selected entity, you can view the collected metrics that are available for chargeback calculations and can be added using the extended plan.

- Metered Data (Table) : View the raw metric data collected

Date	Entity Name	Metric	Value	String Value	Unit
Sep 1, 2025	emrep.rsthybrid.oracle.com	RAC Node Count	1.0000		Node
Sep 1, 2025	emrep.rsthybrid.oracle.com	Uptime	24.0000	Target Up	Hours
Sep 1, 2025	emrep.rsthybrid.oracle.com	Tablespace Size	36.3000		GB
Sep 1, 2025	emrep.rsthybrid.oracle.com	CPU Count	14.0000		CPU
Sep 1, 2025	emrep.rsthybrid.oracle.com	Life Cycle Status	1.0000		
Sep 1, 2025	emrep.rsthybrid.oracle.com	Database Role	1.0000	None	

- Show Hierarchy : View the hierarchical relationships of a container entity and its chargeable entities



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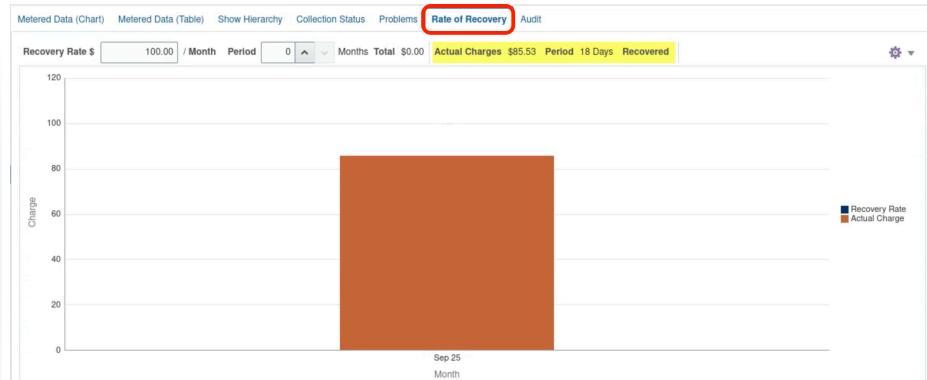
- o Collection Status : View statistical data such as error count and when metric data was last collected

Entity Type	Entity Name	Aggregation	Data Collected From	Data Collected To	Error Count	Collection Status	Error Message	Data Collection Run Date
Database Instance	emrep.rsthybrid.oracle.com	Day - Other	Sep 1, 2025 12:00 AM	Sep 10, 2025 10:00 AM	0	Succeeded		Sep 10, 2025 10:42 AM
Database Instance	emrep.rsthybrid.oracle.com	Day - Usage	Sep 1, 2025 12:00 AM	Sep 10, 2025 10:00 AM	0	Succeeded		Sep 10, 2025 10:42 AM
Database Instance	emrep.rsthybrid.oracle.com	Hour - Other	Sep 1, 2025 12:00 AM	Sep 10, 2025 10:00 AM	0	Succeeded		Sep 10, 2025 10:42 AM
Database Instance	emrep.rsthybrid.oracle.com	Hour - Usage	Sep 1, 2025 12:00 AM	Sep 10, 2025 10:00 AM	0	Succeeded		Sep 10, 2025 10:42 AM
Database Instance	emrep.rsthybrid.oracle.com	Hour - Other	Sep 10, 2025 10:00 AM	Sep 11, 2025 7:00 AM	0	Succeeded		Sep 11, 2025 7:00 AM
Database Instance	emrep.rsthybrid.oracle.com	Day - Usage	Sep 10, 2025 10:00 AM	Sep 11, 2025 6:00 AM	0	Succeeded		Sep 11, 2025 7:00 AM
Database Instance	emrep.rsthybrid.oracle.com	Day - Other	Sep 10, 2025 10:00 AM	Sep 11, 2025 7:00 AM	0	Succeeded		Sep 11, 2025 7:00 AM

- o Problems : View any problems related to the selected entity such as with the data collection process

Metered Data (Chart)	Metered Data (Table)	Show Hierarchy	Collection Status	Problems	Rate of Recovery	Audit
View < 0 >						
Summary						
No data to display.						

- o Rate of Recovery : View if an entity is on-track to meet the projected monthly figure the Plan Advisor calculated



- o Audit : View who performed certain tasks such as assigning a cost center to the entity and when

Metered Data (Chart)	Metered Data (Table)	Show Hierarchy	Collection Status	Problems	Rate of Recovery	Audit
Modification Date	User	Message Type	Message			
Sep 10, 2025 10:35 ...	SYSMAN	Cost Center assigned	Cost center -- IT support Databases -- is assigned with effect from Sep 01, 2025			
Sep 10, 2025 10:35 ...	SYSMAN	Plan assigned	Charge plan -- Universal Charge Plan -- is assigned with effect from Sep 01, 2025			

Task 4: Chargeback Reports

Chargeback provides resource and charge reports at different levels. By default, the summary report displays the total usage for the current month.

1. Click on the **Reports** tab



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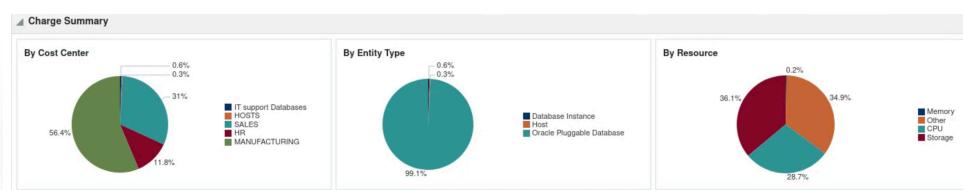
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Design your report from the following options:

- o Use the current report cycle or customize a date range to report on.
- o Choose between summary and trending report types. A summary report presents a pie-chart breakdown, while a trending report uses a y-axis multiple bar chart to denote usage trends.
- o Select specific or all tenants.
- o Select specific cost centers or report on all users.
- o Select specific entities or entity types or report on all entities within all entity types.
- o Choose the metric to report on.

Charge Summary: Includes three pie charts that show the breakdown of charges by Cost Center level, Entity Type level, Resource type



Details: Provides report details and allows to filter by detail level

Details										
	View	Detail Level	Metric	Adjust Charges	Clear					
EM_ROOT_TE...	IT su...	Metric	Instance	emrep.rsthybrid.oracle.com	Universal Charge Plan	Storage	Tablespace Size	1.00 per GB per Month	Per Unit	AI
EM_ROOT_TE...	IT su...	Date	Instance	emrep.rsthybrid.oracle.com	Universal Charge Plan	Memory	SGA Size	1.00 per GB per Week	Per Unit	AI
EM_ROOT_TE...	IT sup...	Data...	Database Instance	emrep.rsthybrid.oracle.com	Universal Charge Plan	CPU	CPU Utilization	1.00 per % per Hour	Usage	AI
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm01.rsthybrid.orac...	HOST PLAN	Default	Memory	Memory	0.001 X Universal Rate	AI	
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm01.rsthybrid.orac...	HOST PLAN	Default	Disk Space	Disk Space	0.001 X Universal Rate	AI	
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm01.rsthybrid.orac...	HOST PLAN	Default	CPU	CPU Utilization	0.001 X Universal Rate	AI	
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm05.rsthybrid.orac...	HOST PLAN	Default	Memory	Memory	0.001 X Universal Rate	AI	
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm05.rsthybrid.orac...	HOST PLAN	Default	Disk Space	Disk Space	0.001 X Universal Rate	AI	
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm09.rsthybrid.orac...	HOST PLAN	Default	CPU	CPU Utilization	0.001 X Universal Rate	AI	
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm09.rsthybrid.orac...	HOST PLAN	Default	Memory	Memory	0.001 X Universal Rate	AI	
EM_ROOT_TE...	HOSTS	Host	exa02badm01vm09.rsthybrid.orac...	HOST PLAN	Default	Disk Space	Disk Space	0.001 X Universal Rate	AI	

2. Change metric to **CPU Usage** and click **View Report**

Oracle Enterprise Manager: Exadata Management



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+ Lab 2: Database Impact Advisor

- Lab 3: Chargeback Administration

Introduction

Task 1: Launch Chargeback Home page

Task 2: Explore charge plans and cost center tabs

Task 3: Add entity by associating a Charge Plan and Cost Center

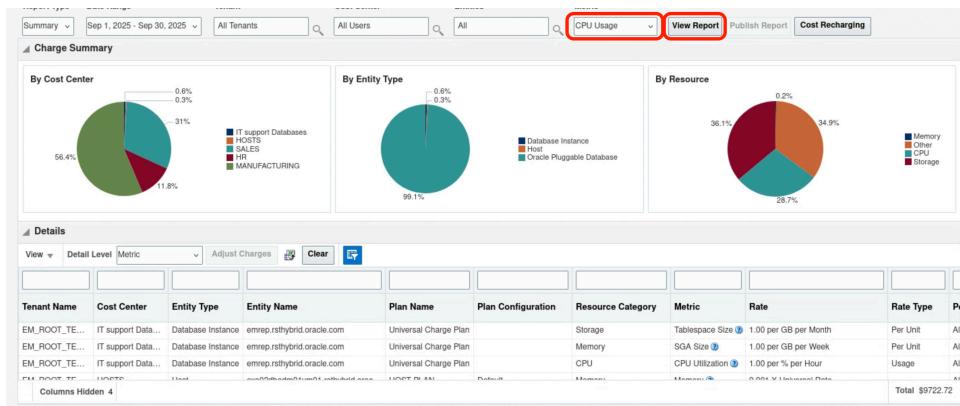
Task 4: Chargeback Reports

Learn More

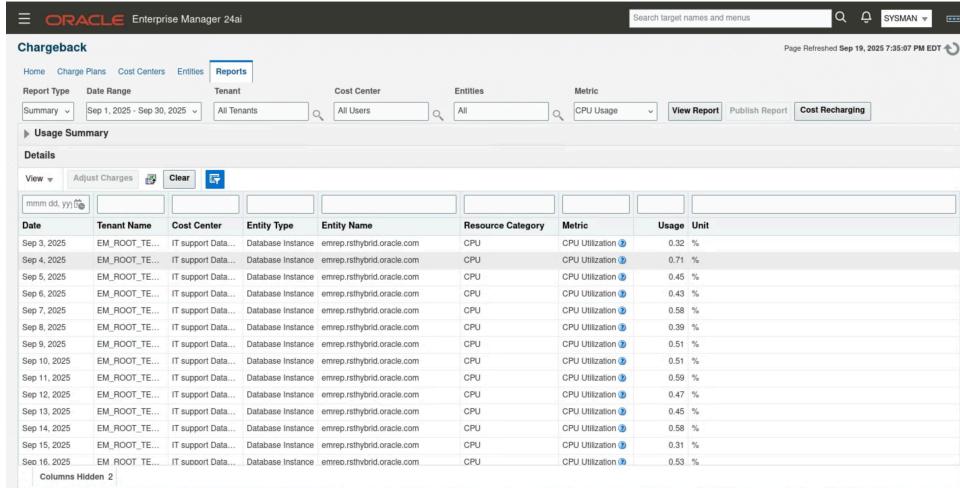
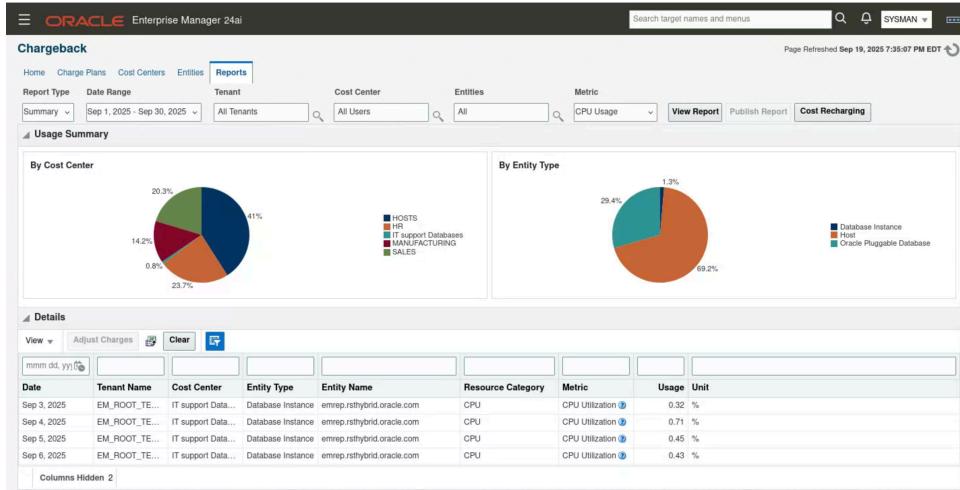
Acknowledgements

+ Lab 4 (Optional): Autonomous Health Framework Administration

+ Need Help?



You can see that there are only two pie charts: one by **Cost Center** and the other by **Entity Type**. In this configuration, all hosts are also chargeable entities. The majority of CPU usage is attributed to hosts because all hosts in Chargeback are database hosts, and the CPU consumed by databases is included in the host CPU consumption. However, even after subtracting the database CPU from the host CPU, there is still a substantial amount of CPU time spent outside the database.

3. Change report type to **Trending** and click **View Report**

The report now shows total CPU utilization on a day-by-day basis, based on the filters applied in the top section. By applying filters, you can view CPU utilization for individual cost centers and/or entity types.



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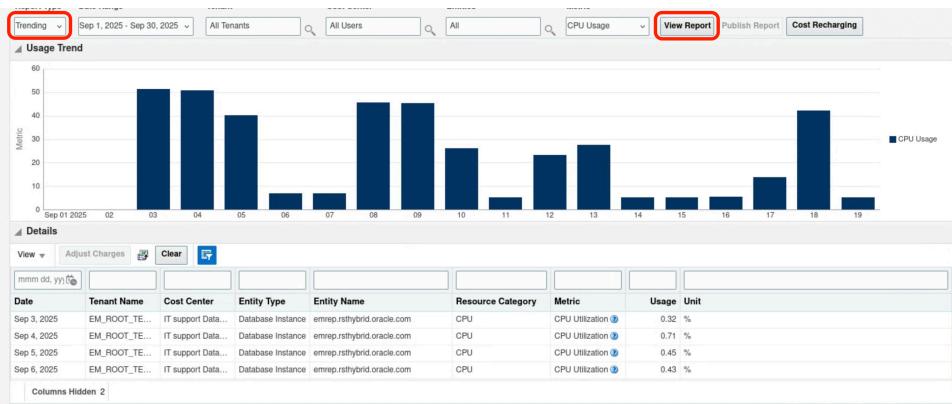
Task 4: Chargeback Reports

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Note: Publishing Report option is enabled only when Oracle Analytical Server is installed and integrated with Enterprise Manager. Enterprise Manager uses BI Publisher to generate reports in a variety of formats, including

[Email](#) [HTML](#) [PDF](#) [Word](#) [Excel](#)

Learn More

- Chargeback Administration
- Engineered Systems Packs
- [Enterprise Manager 24ai Documentation Library](#)
- [Enterprise Manager 24ai Tech Forum Video Playlist](#)

Acknowledgements

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- **Last Updated By/Date** - Anand Prabhu, Principal Member of Technical Staff, Enterprise Manager September 2025

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