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Exadata Fleet Dashboards

Introduction

Exadata Fleet Dashboards provide a unified, high-level view of resource usage, capacity, and performance across an entire fleet of Exadata systems. They enable administrators to quickly identify systems that need attention, analyze component-level usage, and track metric trends, supporting proactive management of both on-premises and cloud-based Exadata and Recovery Appliance environments.

Objectives

To enable users to efficiently navigate and utilize the Exadata Fleet Dashboards within Oracle Enterprise Manager

- Gain a high-level overview of resource usage across the fleet
- Identify Exadata systems that require attention
- Analyze usage of individual components within an Exadata system
- Review and analyze metric trends

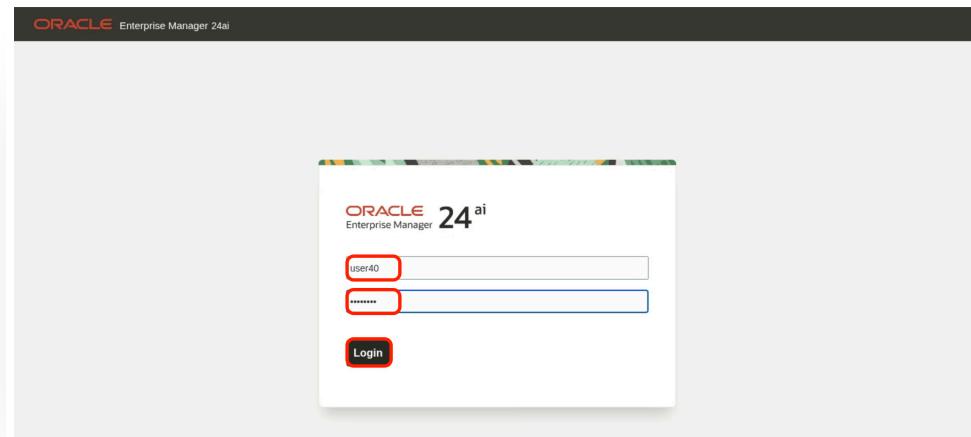
Estimated Time: 15 minutes

[Collapse All Tasks](#)

Task 1: Explore Fleet Configuration Dashboard

Exadata Fleet Configuration dashboard shows the Exadata hardware and software configurations across the Exadata and Recovery Appliance fleet, based on the last known metric collection. You can apply the filters to limit the display to a subset of systems.

1. Log into Enterprise Manager





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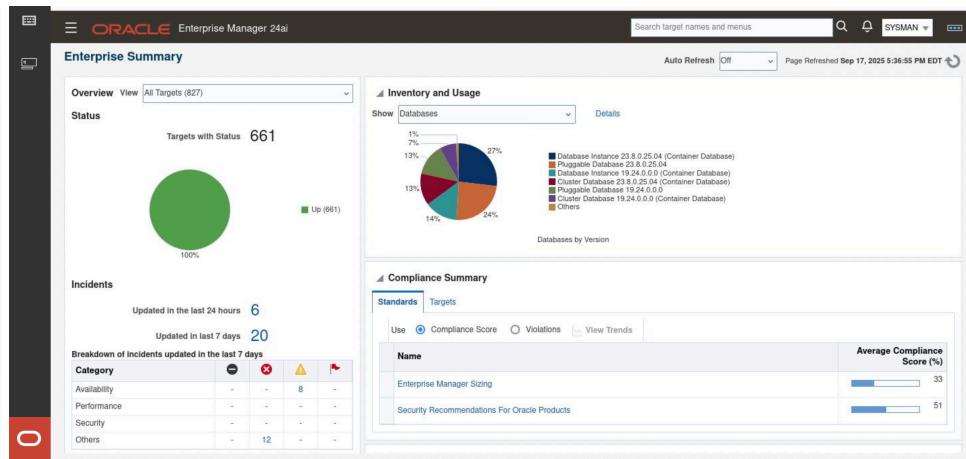
Acknowledgements

+ Lab 2: Database Impact Advisor

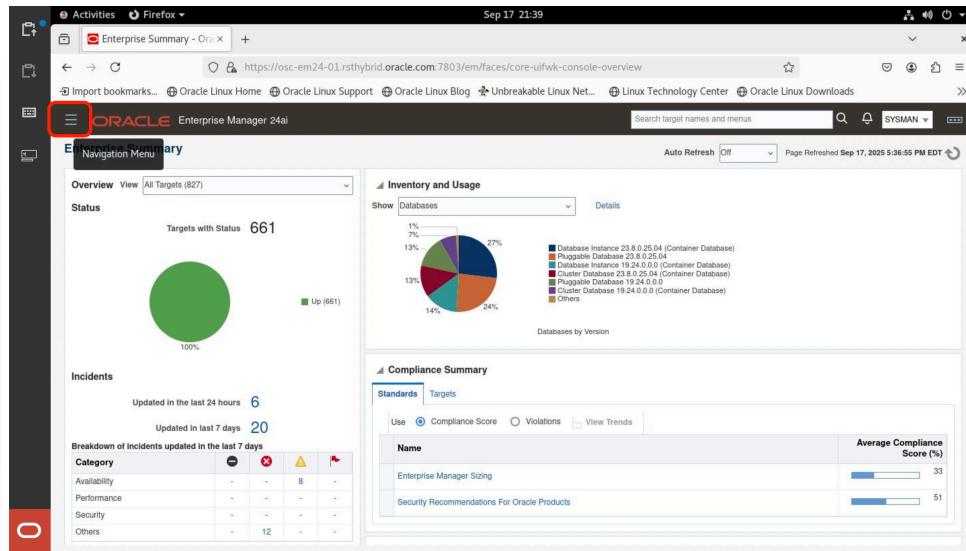
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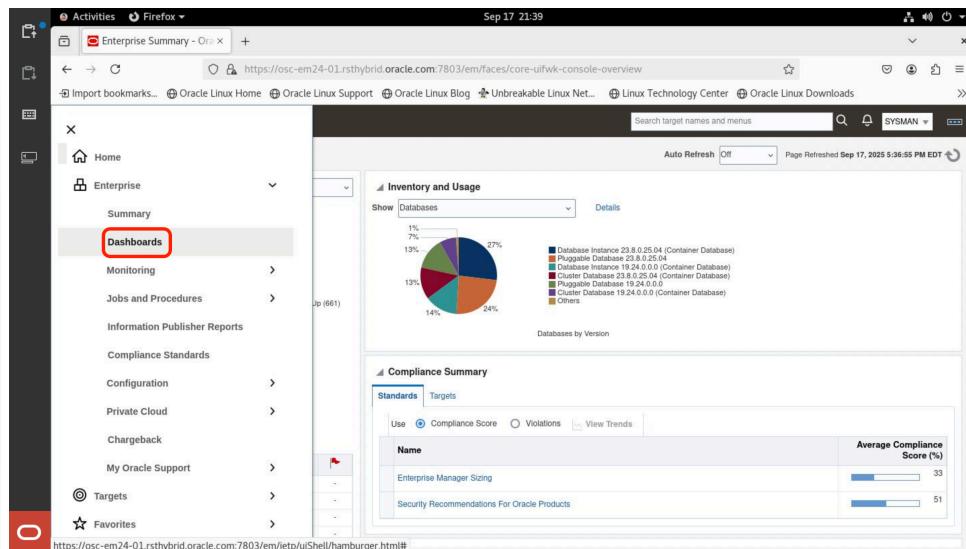
+ Need Help?



- Click the **hamburger menu icon**.



- Navigate to **Enterprise > Dashboards**.



- On the **Dashboards** page, click on the **Exadata Fleet Configuration** dashboard.



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The screenshot shows the Oracle Enterprise Manager interface with the title 'Dashboards'. Below the title is a search bar and a toolbar with buttons for 'Create dashboard', 'Import dashboards', 'Show widgets', 'Show filters', 'Created by All', 'Updated by All', and a search input field. The main area displays a table of dashboards. One row, 'Exadata Fleet Configuration', is highlighted with a red box. The table columns include Name, Description, Created by, Updated by, and Last updated.

Name	Description	Created by	Updated by	Last updated
Exadata Fleet Configuration	Shows the current Exadata hardware ...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Exadata Fleet Capacity	Shows individual Exadata capacity ac...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Exadata Fleet Component Capacity	Shows individual Exadata component ...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Exadata Fleet Aggregated Capacity	Summarizes Exadata capacity for the ...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Target Summary	Provides an overview of health, metric...	Oracle	Oracle	Mon, Jan 9, 2023 UTC
Enterprise Summary	Provides an overview of enterprise as...	Oracle	Oracle	Sun, Aug 1, 2021 UTC
Group Summary	Provides group's member compositor...	Oracle	Oracle	Sun, Aug 1, 2021 UTC
Federation Summary - By Sites	Provides a consolidated view of target...	Oracle	Oracle	Sat, May 1, 2021 UTC
Federation Summary - By Groups	Provides a consolidated view of target...	Oracle	Oracle	Sat, May 1, 2021 UTC

5. Explore **Exadata Fleet Configuration Dashboard**

Filters: Allows to filter content on dashboard using target name, engineered system type, deployment type, generation, DB Server OS, Major version and also allows to filter using the target properties which include Location, Line of Business, Department, Lifecycle status & others.

The screenshot shows the 'Exadata Fleet Configuration' dashboard. At the top, there is a filter panel with various dropdown menus and input fields for filtering by target name, system type, deployment type, generation, operating system, major version, and other properties. Below the filter panel are four main sections: Overview, Hardware, Software, and Database, each containing a ring chart and some descriptive text.

Let's **close the filter panel** for now by clicking on the icon as shown below.

The screenshot shows the same 'Exadata Fleet Configuration' dashboard, but the filter panel is now closed. The 'Open/close filter panel' button is highlighted with a red box. The dashboard structure remains the same with the Overview, Hardware, Software, and Database sections.

Exadata Fleet Configuration dashboard provides a structured way to view and analyze the configuration of your Engineered System fleet. It is divided into four vertical sections:

- **Overview:** Provides a high-level summary of your Engineered System fleet. It displays ring charts showing the distribution by system type, deployment type, service type, database deployment option, and fabric type. This helps quickly identify how systems are deployed and configured across environments.

Note: Service type widget shows no data because we don't have any cloud service types, such as Autonomous Database or Exadata Database Service, in this environment.



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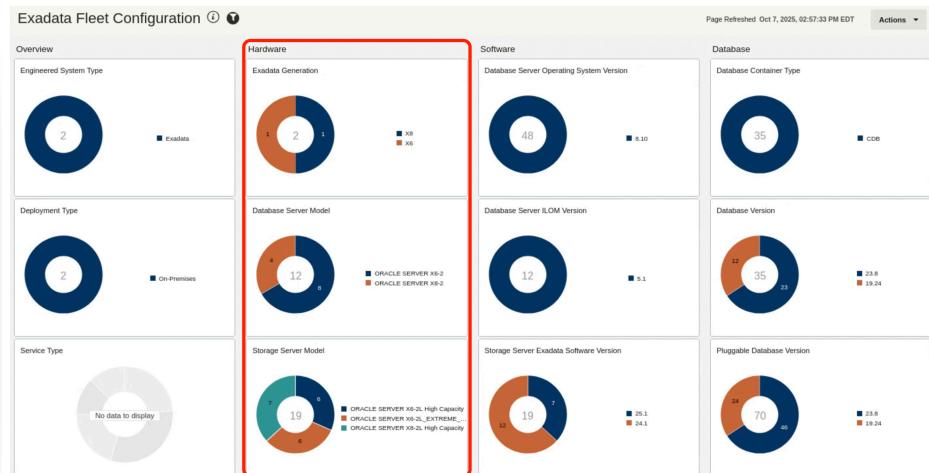
+ Need Help?



Note: Scroll down to view other two widgets



- o **Hardware:** Shows the physical characteristics of the fleet. Ring charts display Exadata generations, server models, storage types, and switch models. This helps assess hardware diversity and standardization.



Note: Scroll down to view other two widgets



- o **Software:** Summarizes the software landscape across components. It shows distributions of OS versions, ILOM versions, Exadata software versions, and switch firmware versions. This helps track consistency and



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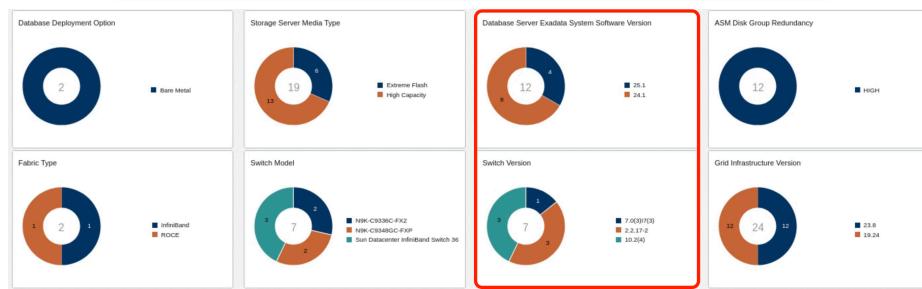
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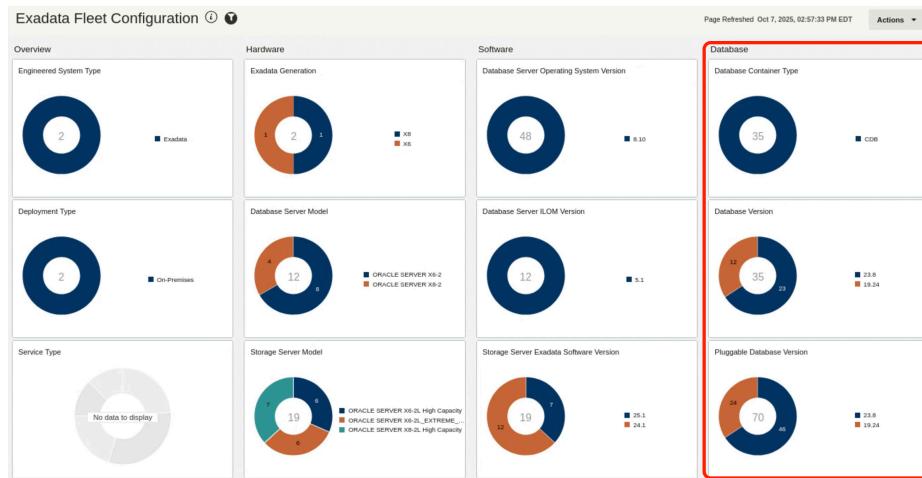
+ Need Help?



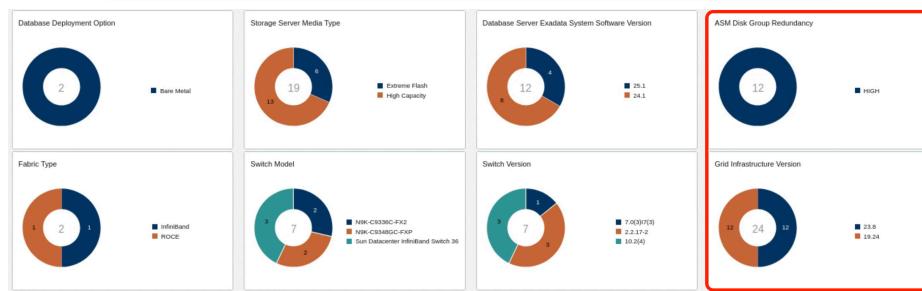
Note: Scroll down to view other two widgets



- o **Database:** Provides insights into deployed databases. It shows CDB vs. Non-CDB usage, database and PDB versions, ASM redundancy levels, and Grid Infrastructure versions. This helps monitor database standardization and lifecycle status.



Note: Scroll down to view other two widgets





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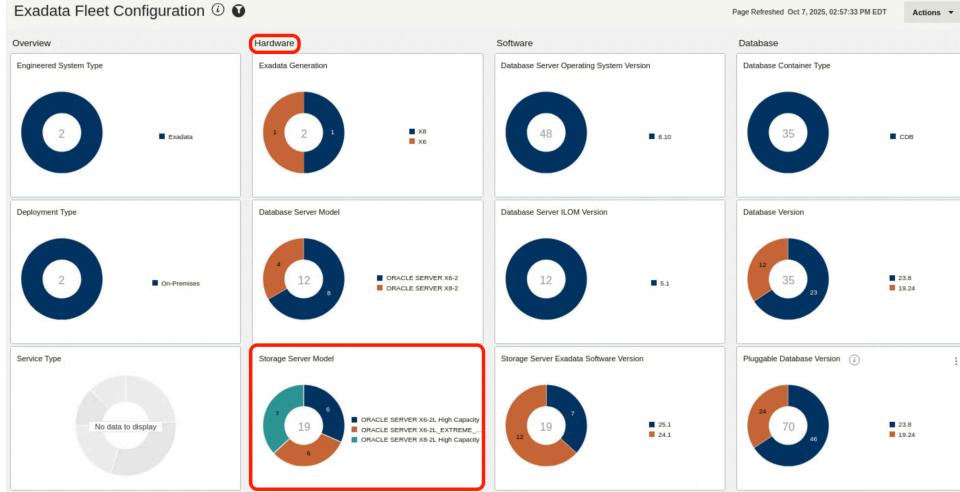
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+ Lab 2: Database Impact Advisor

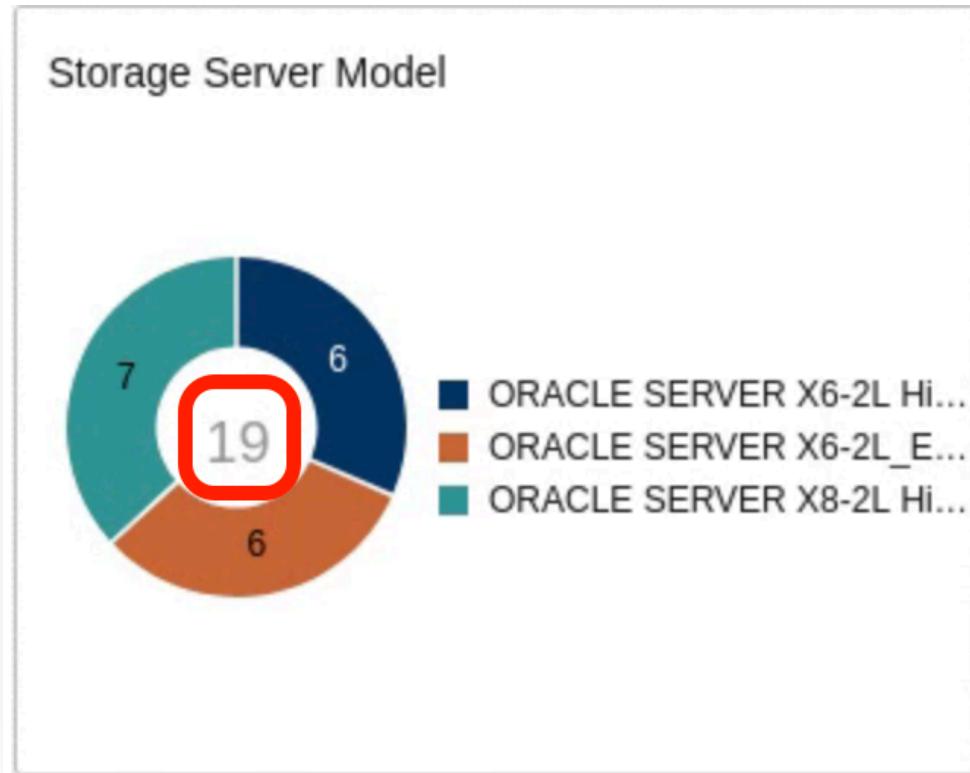
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Now, click on the number within the doughnut chart to view targets with all the storage server models and then click **Close**.





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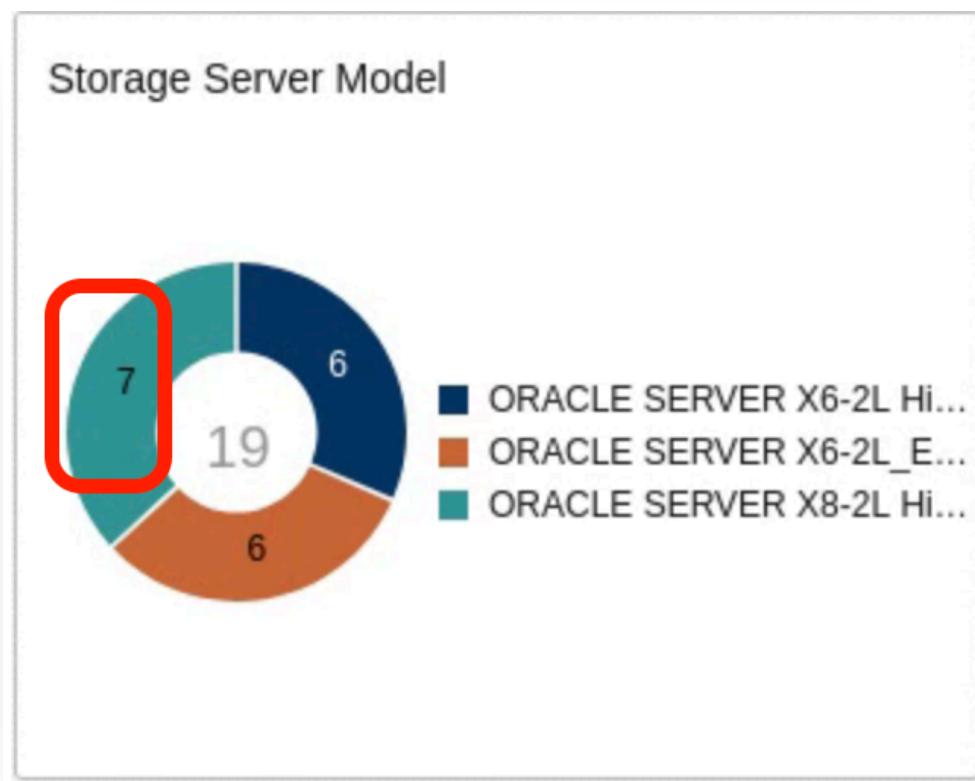
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Target	Engineered System	Engineered System Target Type	Deployment Type	Model	Version
exa02celadm13.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa02celadm09.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa02celadm06.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa03celadm07.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa02celadm12.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa02celadm03.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa03celadm02.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa02celadm11.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa03celadm05.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa03celadm06.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa02celadm02.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa03celadm03.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa02celadm05.rsthybri...	DB Machine exa02.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	24.1.6.0.0.241115
exa03celadm01.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517

Now if you want to find the list of specific hardware model click on the colored slice.

Here in this example we want to list **Storage Server Model: ORACLE SERVER X8-2L High Capacity** so click on the slice as shown below and then click **Close**.





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Target	Engineered System	Engineered System Target Type	Deployment Type	Model	Version
exa03celadm07.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa03celadm02.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa03celadm05.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa03celadm06.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa03celadm03.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa03celadm01.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517
exa03celadm04.rsthybri...	DB Machine exa03.rsth...	Oracle Database Machine	On-Premises	Oracle Corp...	25.1.5.0.0.250517

7. Apply the "Target Property: Department" Filter by selecting **HR** department

Click on the **filter icon** to open the filter panel as shown below

Dashboards > Exadata Fleet Configuration

Exadata Fleet Configuration

Page Refreshed Oct 7, 2025, 02:57:33 PM EDT Actions ▾

Overview	Hardware	Software	Database
Engineered System Type	Exadata Generation	Database Server Operating System Ver...	Database Container Type

Apply the **filter** as shown below

ORACLE Enterprise Manager 24ai

Dashboards > Exadata Fleet Configuration

Exadata Fleet Configuration

Page Refreshed Sep 17, 2025, 05:46:23 PM EDT Actions ▾

Engineering System Target N...	Engineering System Type	Deployment Type	Exadata Generation	Database Server Operating ...	Exadata Software Major Vers...
All	All	All	All	All	All
Target Property: Contact	Target Property: Cost Center	Target Property: CSI	Target Property: Comment	Target Property: Department	Target Property: Downtime C...
No values to select.	No values to select.	No values to select.	No values to select.	All	No values to select.
Target Property: Lifecycle St...	Target Property: Line of Busi...	Target Property: Location	Target Property: Site	FINANCE	
No values to select.	All	All	No values to select.	HR	

Overview Hardware Software Database

Engineering System Type	Exadata Generation	Database Server Operating System Ver...	Database Container Type

8. Analyze the filtered results

HR department operates one X6 generation Exadata system on-premises, running Database Server OS version 8.10 with InfiniBand connectivity and a multitenant database on DB version 19.24.



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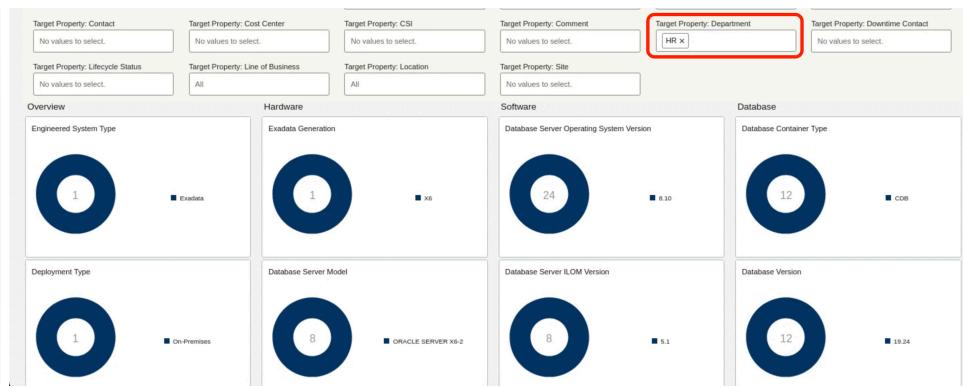
Acknowledgements

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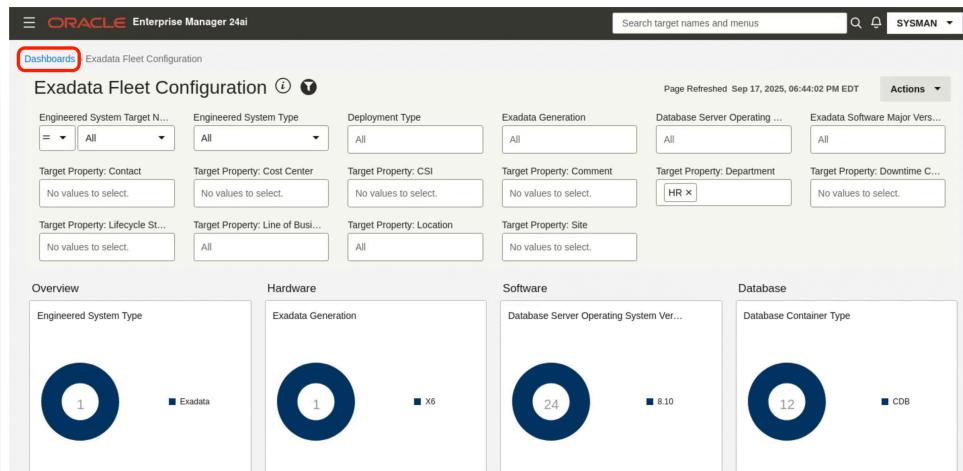


Task 2: Explore Fleet Aggregated Capacity Dashboard

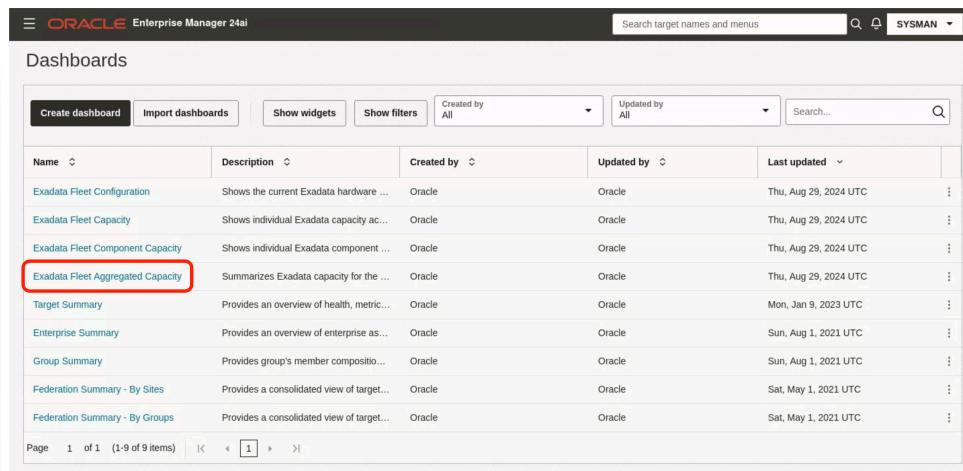
Exadata Fleet Aggregated Capacity dashboard summarizes the capacity averaged over the last 31 days for the Exadata and Recovery Appliance fleet or filtered subset of the fleet. You can apply the filters to limit the display to a subset of systems.

This dashboard provides an aggregated capacity overview across the fleet and helps determine whether there is room for new databases or if consolidation is needed to maintain optimal utilization across the fleet by correlating the charts.

1. Click on **Dashboards**.



2. On the **Dashboards** page, click on the **Exadata Fleet Aggregated Capacity** dashboard.





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generation, DB Server OS, major version and also allows to filter using the target properties which include Location, Line of Business, Department, Lifecycle status & others.

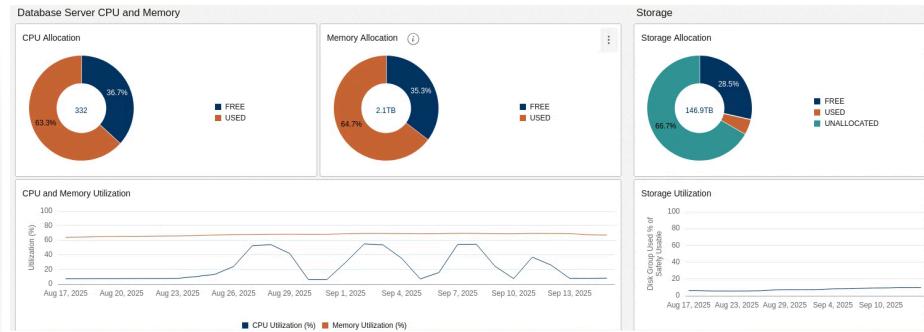
The screenshot shows the Oracle Enterprise Manager 24ai interface with the title 'Exadata Fleet Aggregated Capacity'. At the top, there is a filter panel with several dropdown menus and search fields. Below the filter panel are three donut charts under the heading 'Database Server CPU and Memory' and 'Storage'. The first chart shows CPU Allocation with 36.7% FREE and 63.3% USED. The second chart shows Memory Allocation with 35.9% FREE and 64.7% USED. The third chart shows Storage Allocation with 28.5% FREE, 146.9TB USED, and 66.7% UNALLOCATED. The legend indicates that blue represents FREE, orange represents USED, and teal represents UNALLOCATED.

Let's close the filter panel for now by clicking on the icon as shown below.

This screenshot shows the same dashboard as above, but the filter panel is now collapsed, indicated by a small icon with a minus sign. The dashboard area is visible, showing the three donut charts for CPU, Memory, and Storage allocation.

Exadata Fleet Aggregated Capacity dashboard summarizes the capacity averaged over the last 31 days for the Exadata and Recovery Appliance fleet or filtered subset of the fleet. It provides a high level summary of fleet resource usage indicating overall average utilization. This dashboard is organized into two sections.

- **Database Server CPU and Memory, and Storage:** The CPU, memory, and storage charts summarize 31 day resource allocation and trends across the Engineered System fleet to highlight usage patterns and potential anomalies.



- **Storage Server I/O:** Provides line charts with aligned timelines to correlate key storage server performance metrics such as latency, throughput, IOPS, I/O load, and utilization to help in diagnosing performance issues by viewing related values together.



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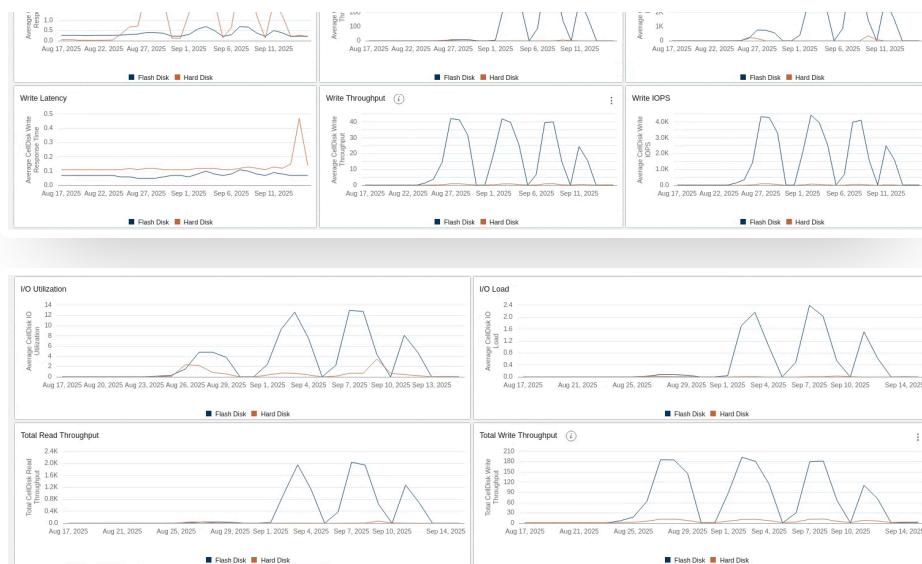
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Task 3: Explore Exadata Fleet Capacity Dashboard

Exadata Fleet Capacity dashboard shows individual Exadata capacity averaged over the last 31 days across the Exadata and Recovery Appliance fleet or filtered subset of the fleet, allowing comparison by system.

- Click on **Dashboards**.

The screenshot shows the Oracle Enterprise Manager 24ai interface with the 'Dashboards' page selected. A red box highlights the 'Exadata Fleet Aggregated Capacity' link under the 'Exadata Fleet' section. The dashboard itself has several filter dropdowns for 'Engineered System Target N...', 'Engineered System Type', 'Deployment Type', 'Exadata Generation', 'Database Server Operating ...', and 'Exadata Software Major Vers...'. Below these are sections for 'Target Property: Contact', 'Target Property: Cost Center', 'Target Property: CSI', 'Target Property: Comment', 'Target Property: Department', and 'Target Property: Downtime C...'. At the bottom are three donut charts: 'CPU Allocation' (45.2% FREE, 54.8% USED), 'Memory Allocation' (35.3% FREE, 64.7% USED), and 'Storage' (28.5% FREE, 146.9TB USED, 71.5% UNALLOCATED).

- On the **Dashboards** page, click on the **Exadata Fleet Capacity** dashboard.

The screenshot shows the Oracle Enterprise Manager 24ai interface with the 'Dashboards' page selected. A red box highlights the 'Exadata Fleet Capacity' entry in the list of dashboards. The dashboard table columns include Name, Description, Created by, Updated by, and Last updated.

Name	Description	Created by	Updated by	Last updated
Exadata Fleet Configuration	Shows the current Exadata hardware ...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Exadata Fleet Capacity	Shows individual Exadata capacity ac...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Exadata Fleet Component Capacity	Shows individual Exadata component ...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Exadata Fleet Aggregated Capacity	Summarizes Exadata capacity for the ...	Oracle	Oracle	Thu, Aug 29, 2024 UTC
Target Summary	Provides an overview of health, metric...	Oracle	Oracle	Mon, Jan 9, 2023 UTC
Enterprise Summary	Provides an overview of enterprise as...	Oracle	Oracle	Sun, Aug 1, 2021 UTC
Group Summary	Provides group's member compositio...	Oracle	Oracle	Sun, Aug 1, 2021 UTC
Federation Summary - By Sites	Provides a consolidated view of target...	Oracle	Oracle	Sat, May 1, 2021 UTC
Federation Summary - By Groups	Provides a consolidated view of target...	Oracle	Oracle	Sat, May 1, 2021 UTC

- Explore **Exadata Fleet Capacity Dashboard**



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The screenshot shows the Oracle Enterprise Manager Exadata Fleet Capacity dashboard. At the top, there is a filter panel with several dropdown menus and search fields. Below the filter panel is a section titled "Database Server CPU and Memory" containing a bubble chart. The chart has "CPU Utilization (%)" on the y-axis (0-100) and "Memory Utilization (%)" on the x-axis (0-100). Two bubbles are visible: one at approximately (55, 20) and another at approximately (80, 25). The chart has a legend indicating "Targets: 2".

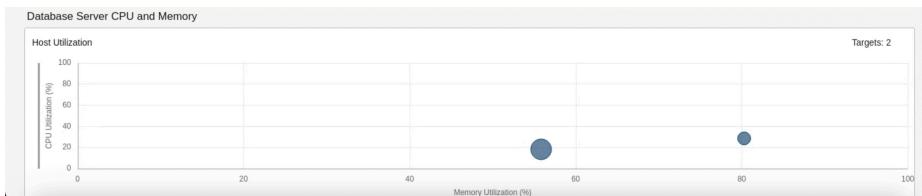
Let's close the filter panel for now by clicking on the icon as shown below.

The screenshot shows the Oracle Enterprise Manager Exadata Fleet Capacity dashboard with the filter panel collapsed. The main interface remains the same, featuring the "Database Server CPU and Memory" section with its bubble chart.

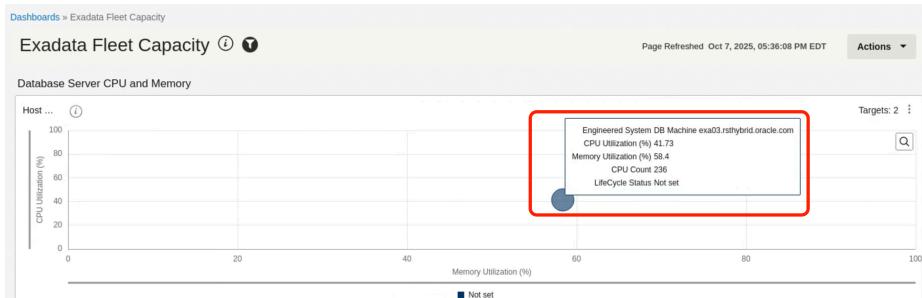
Exadata Fleet Capacity dashboard includes multiple sections that provides detailed insights into specific dimensions of fleet resource capacity like host utilization, storage utilization, I/O performance, CPU, memory, disk usage, and IOPS.

Detailed descriptions for each section are provided below:

- **Database Server CPU and Memory:** Host Utilization bubble chart in this section visualizes the average utilization of CPU and memory across all hosts (database servers) in an Engineered Systems over the past month.



Hovering over the bubble provides additional information



- **Storage:** Provides an overview of the storage utilization through four scatter plots, offering insights into disk space usage and growth.



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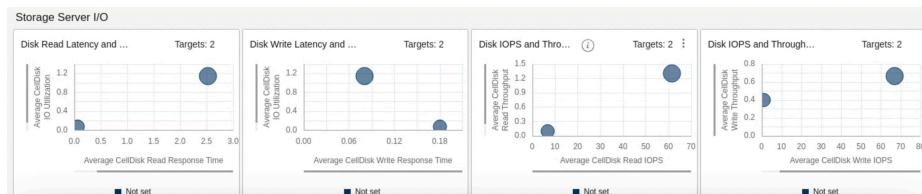
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- **Storage Sever I/O:** Provides an overview of the various performance metrics related to I/O serviced by flash and hard disks across all Engineered System storage servers. Each chart provides detailed insights into different aspects of storage performance, including latency, utilization, IOPS, and throughput. Each bubble on the charts represents an Engineered System. The size of the bubble is proportional to the number of storage servers on the Engineered System.



- **Database Server CPU and Memory Details:** Summarizes CPU and memory utilization for Engineered Systems. This table allows comparison of resource usage across different systems, which can be useful for performance monitoring, capacity planning, and identifying potential bottlenecks in CPU and memory utilization.

Database Server CPU and Memory ... ⓘ			
Engineered System ⚡	CPU Count ⚡	CPU Utilization (%) ⚡	Memory Utilization (%) ⚡
DB Machine exa03.rsthybrid.oracle.com	236	60%	18% 56%
DB Machine exa02.rsthybrid.oracle.com	96	70%	29% 80%

- **Storage Details:** Provides an overview of the storage details for Engineered Systems. This table allows comparison of storage utilization across different systems, which can provide insights into free space availability, content distribution, and the efficiency of space utilization in both general storage and specific database tablespaces.



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+ Lab 3: Chargeback Administration

+ Lab 4 (Optional): Autonomous Health Framework Administration

+ Need Help?



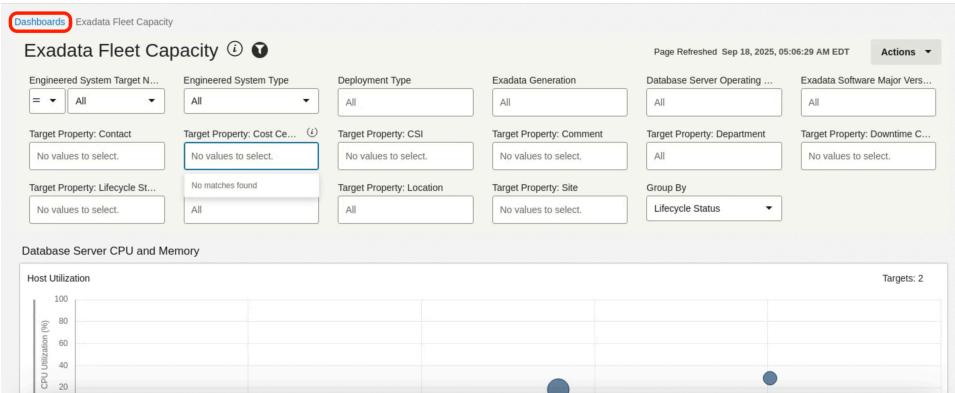
- **Storage Server I/O Details:** Provides a detailed overview of I/O performance metrics for various Engineered Systems in tabular format. This table allows comparison of I/O performance and utilization across different systems, which can provide insights into storage efficiency and performance bottlenecks in both disk and flash storage.

Storage Server I/O Details										Targets: 1
Engineered System	Capacity (TB)	Read Latency	Disk IOPS (Read)	Disk Throughput (Read)	Disk Utilization (%)	Flash Utilization (%)	Flash Read Latency (ms)	Flash IOPS (Read)	Flash Throughput (Read)	
DB Machine exa02.rsthybrid...	144.66	2.26	54.47	1.15	1%	2%	0.15	802.35		

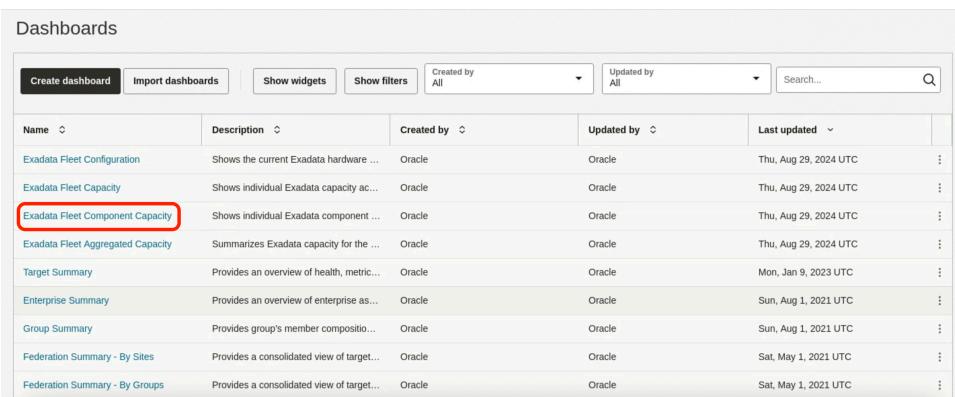
Task 4: Explore Exadata Fleet Component Capacity

Exadata Fleet Component Capacity dashboard provides a holistic view of fleet capacity and performance metrics at the individual component level. It allows for the identification and comparison of over or under-utilized components, with data averaged over the last 31 days.

1. Click on **Dashboards**.



2. On the **Dashboards** page, click on the **Exadata Fleet Component Capacity** dashboard.



3. Explore **Exadata Fleet Component Capacity**

Filters: Allows to filter content on dashboard using target name, engineered system type, deployment type, generation, DB Server OS, Major version and also allows to filter using the target properties which include Location, Line of Business, Department, Lifecycle status & others.



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Let's **close the filter panel** for now by clicking on the icon as shown below.

Exadata Fleet Component Capacity dashboard includes multiple sections that provides detailed insights into specific dimensions of component capacity like host utilization, storage utilization, I/O performance, CPU, memory, disk usage, and IOPS (input/output operations per second).

Detailed descriptions for each section are provided below:

- **Database Server CPU and Memory:** Host Utilization bubble chart in this section visualizes the average utilization of CPU and memory of each host in an Engineered Systems over the past month.



Tips: Use the following visual features in the bubble charts to analyze the data

- Hovering over the bubble provides additional information



- When the bubbles overlap, you can zoom in to distinguish individual bubbles

Click on the **lens icon** as shown below



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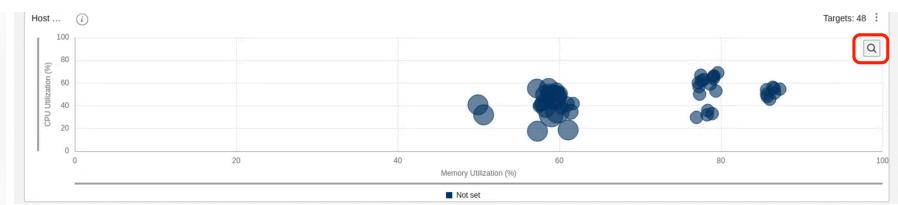
Acknowledgements

+ Lab 2: Database Impact Advisor

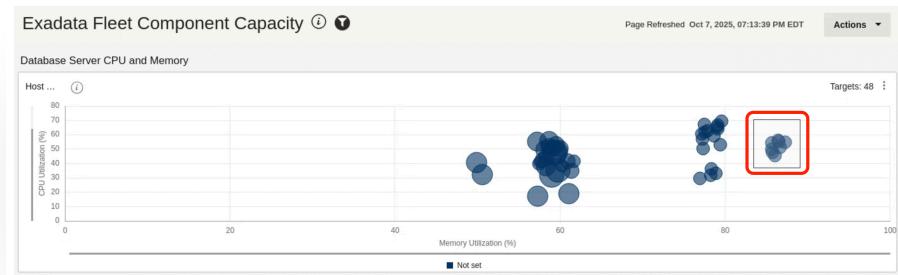
+ Lab 3: Chargeback Administration

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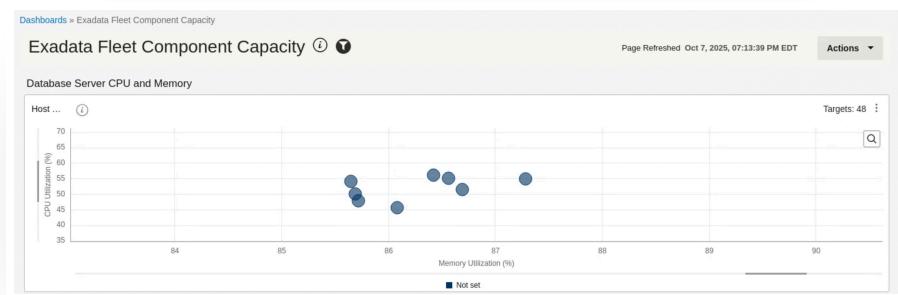
+ Need Help?



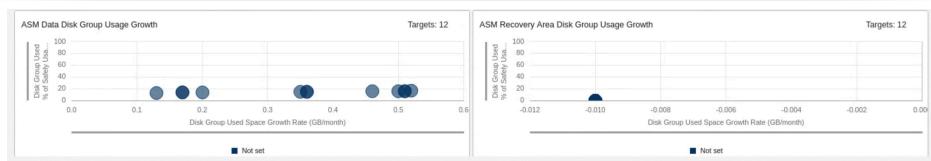
Select the area to **zoom in**



Area is now zoomed in and allows to view individual bubbles



- **Storage:** Provides an overview of the storage utilization through four scatter plots, offering insights into disk space usage and growth.



- **Storage Sever I/O:** Provides an overview of the various performance metrics related to I/O serviced by flash and hard disks of all Engineered System storage servers. Each chart provides insights into different aspects of latency, utilization, IOPS, and throughput. Each bubble represents a storage server in the Engineered System fleet.

The size of the bubble is proportional to the storage capacity of the storage server.



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- Database Server CPU and Memory Details:** Summarizes CPU and memory utilization of hosts in the Engineered System fleet. This table allows comparison of CPU and memory usage across different hosts, aiding in the identification of systems that may require resource reallocation or optimization.

The visual representation of utilization percentages makes it easy to spot potential bottlenecks or under-utilized resources at an individual host level.

Database Server CPU and Memory Details					Targets: 48
Target	Engineered System	CPU Count	CPU Utilization (%)	Memory Utilization (%)	
exa03dbadm02vm03.rsthybrid.oracle.com	DB Machine exa03.rsthybrid.oracle.com	4	24%	55%	
exa02dbadm04vm02.rsthybrid.oracle.com	DB Machine exa02.rsthybrid.oracle.com	4	31%	85%	
exa02dbadm08vm04.rsthybrid.oracle.com	DB Machine exa02.rsthybrid.oracle.com	4	24%	88%	
exa03dbadm02vm11.rsthybrid.oracle.com	DB Machine exa03.rsthybrid.oracle.com	16	8%	55%	

- Storage Details:** Provides an overview of the storage details for the ASM clusters in the Engineered System fleet. This table provides insights into free space availability, content distribution, and the efficiency of space utilization in both general storage and specific database tablespaces at the ASM cluster level.

Storage Details							Total Rows: 24
Target	Engineered System	Usable Free (TB)	Content Type	Usable Space Utilization (%)	Database Tablespace Utilization (%)		
+ASM_Cluster-c4	DB Machine exa02.rsthybrid.oracle.com	1	recovery	0%	0%	No data to display	
+ASM_Cluster-c2	DB Machine exa02.rsthybrid.oracle.com	0.99	recovery	0%	0%	No data to display	
+ASM_Cluster-c9	DB Machine exa02.rsthybrid.oracle.com	0.99	recovery	0%	0%	No data to display	
+ASM_Cluster-c8	DB Machine exa02.rsthybrid.oracle.com	2.5	data	17%	43%		

- Storage Server I/O Details:** Provides a detailed overview of I/O performance metrics for various Engineered Systems in tabular format. This table allows comparison of I/O performance and utilization across different systems, which can provide insights into storage efficiency and performance bottlenecks in both disk and flash storage.

Storage Server I/O Details									Targets: 1
Engineered System	Capacity (TB)	Read Latency	Disk IOPS (Read)	Disk Throughput (Read)	Disk Utilization (%)	Flash Utilization (%)	Flash Read Latency (ms)	Flash IOPS (Read)	Flash Throughput (Read)
DB Machine exa02.rsthybrid.oracle.com	144.86	2.26	54.47	1.15	1%	2%	0.15	802.35	

Learn More

- [Exadata Fleet Dashboards](#)
- [Enterprise Manager 24ai Documentation Library](#)
- [Enterprise Manager 24ai Tech Forum Video Playlist](#)



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- **Author** - Anand Prabhu, Principal Member of Technical Staff, Enterprise Manager
- **Contributors** - Swapnil Sinvhal, Bjorn Boltoft, Mahesh Sharma - Enterprise Manager Team, Michael Reed, Maury Edmonds, Geoffrey Grandstaff - Oracle Solution Center
- **Last Updated By/Date** - Anand Prabhu, Principal Member of Technical Staff, Enterprise Manager September 2025

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