



+ Introduction
+ Get Started
+ Lab 1: Exadata Fleet Dashboards
+ Lab 2: Database Impact Advisor
+ Lab 3: Chargeback Administration
- Lab 4 (Optional): Autonomous Health Framework Administration
Introduction
Task 1: Execute AHF Command at Fleet Level
Task 2: Analyze AHF Command Execution Job Status
Learn More
Acknowledgements
+ Need Help?

Autonomous Health Framework Administration

Introduction

Autonomous Health Framework (AHF) is Oracle's diagnostic and health management framework for Exadata and Recovery Appliance systems. It helps administrators monitor system health, run compliance checks, and keep diagnostic tools up to date.

Key Features:

- Fleet-wide Monitoring: View AHF installation details, upgrade status, service status, auto-run configuration, and Exachk run history across multiple systems.
- Fleet-wide Management: Upgrade AHF across multiple Exadata hosts on demand or via scheduled auto-upgrades, configure and update AHF upgrade settings across clusters.
- Compliance & Commands: Schedule or run Exachk compliance checks across systems.
- Execute AHF-related commands (ahfctl, tfactl, exachk) on multiple hosts at once.

Objectives

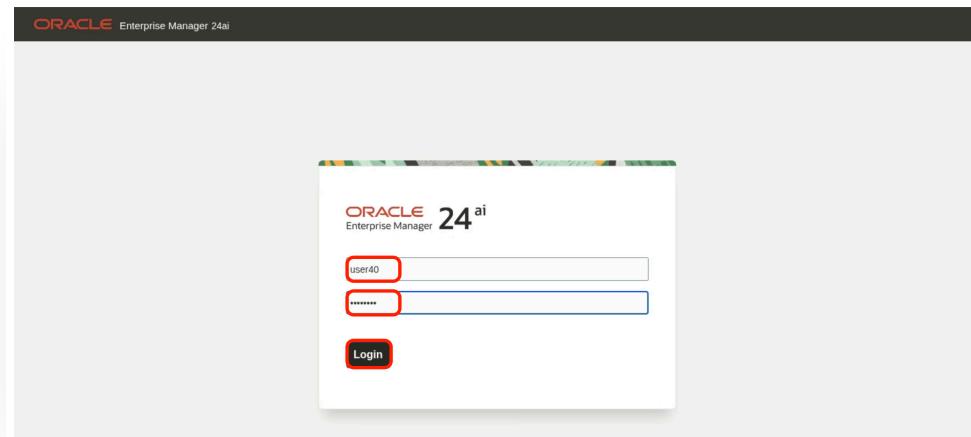
- Learn how to monitor AHF across the fleet
- Explore how to manage AHF across the fleet
- Learn how to run Exachk compliance checks across systems

Estimated Time: 15 minutes

[Collapse All Tasks](#)

Task 1: Execute AHF Command at Fleet Level

1. Log into Enterprise Manager



Oracle Enterprise Manager: Exadata Management



+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

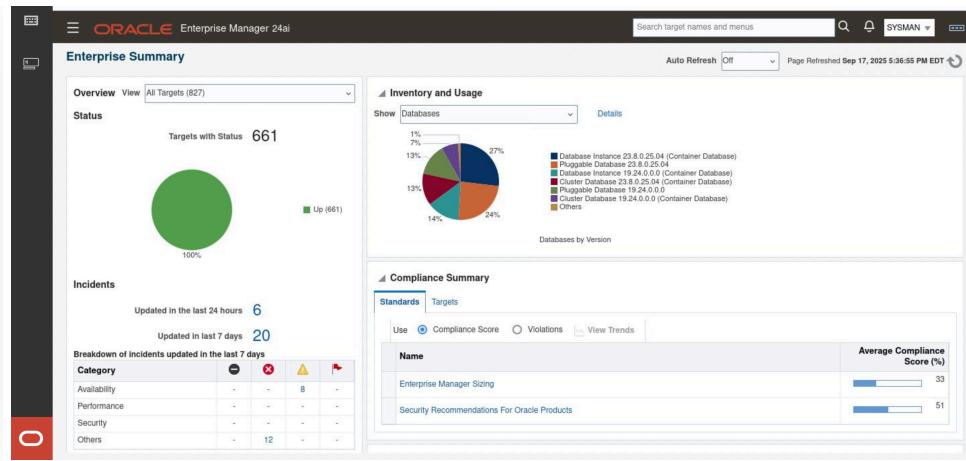
Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

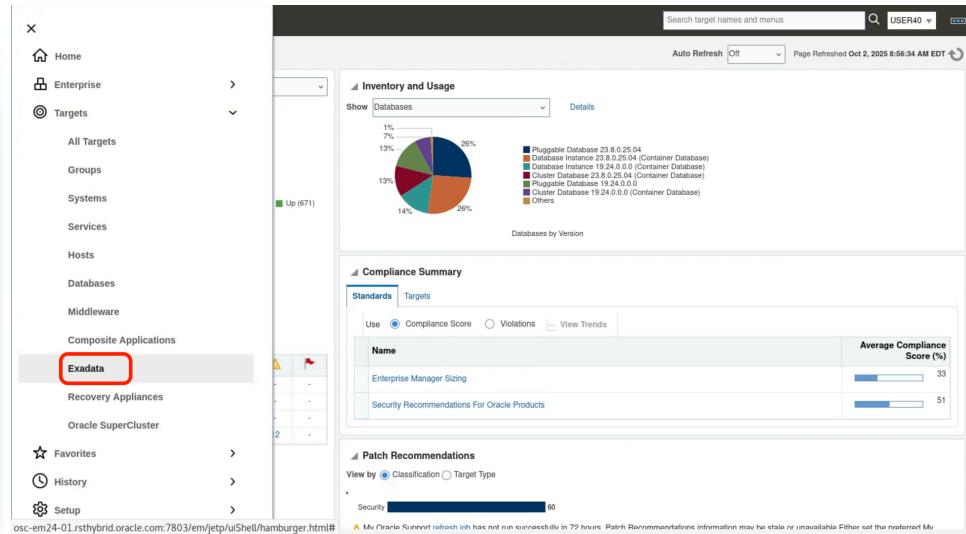
Learn More

Acknowledgements

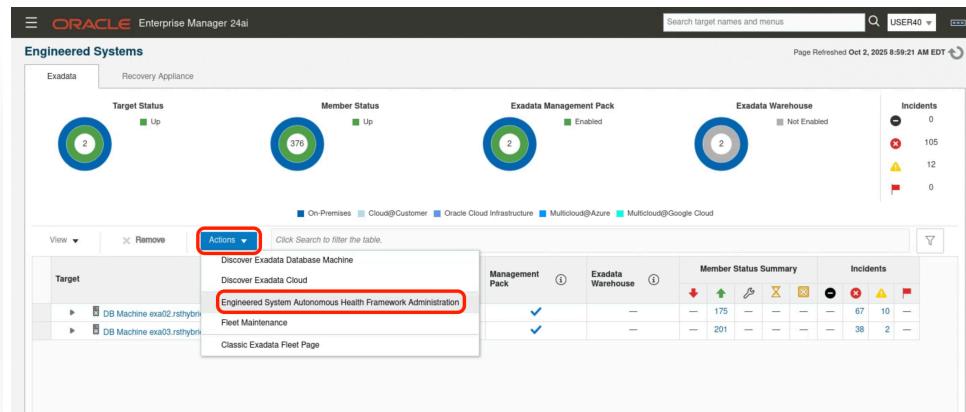
+ Need Help?



2. Navigate to Targets > Exadata.



3. Click on Actions > Engineered System Autonomous Health Framework Administration



Opens a new tab with AHF Administration page.

4. Explore Engineered Systems Tab in the AHF Administration page.

Engineered Systems tab presents an overview that can be used to determine whether AHF is configured on Engineered System targets according to Oracle-recommended standards.



Oracle Enterprise Manager: Exadata Management

+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

Learn More

Acknowledgements

+ Need Help?

Target	Status	Deployment Type	Infrastructure Type	AHF Version	AHF Management Enabled	EXAchk Service Status	TFA Service Status	Actions
DB Machine exa03.rsthybrid.oracle.com	On-Premises	Dedicated		25.5.0	✓	✗	✗	⋮
DB Machine exa02.rsthybrid.oracle.com	On-Premises	Dedicated		25.7.0	✓	✗	✗	⋮

Expand the DB Machine **exa03.rsthybrid.oracle.com** and check the status of AHF, AHF version, Exachk and TFA service status for its nodes.

Target	Status	Deployment Type	Infrastructure Type	AHF Version	AHF Management Enabled	EXAchk Service Status	TFA Service Status	Actions
DB Machine exa03.rsthybrid.oracle.com	On-Premises	Dedicated		25.5.0	✓	✗	✗	⋮
Virtual Platforms	—	—		25.5.0	✓	✗	✗	⋮
exa03-Cluster-c6	—	—		25.5.0	✓	✓	✓	⋮
exa03-Cluster-c5	—	—		25.5.0	✓	✓	✓	⋮
exa03-Cluster-c4	—	—		25.5.0	✓	✓	✓	⋮
exa03-Cluster-c11	—	—		25.5.0	✓	✓	✓	⋮

5. Now select a cluster node to **execute AHF Commands**

DB Machine exa03.rsthybrid.oracle.com contains a total of 12 clusters and is a shared environment. Please identify the cluster assigned to you during this hands-on session and use it to execute the AHF command.

Here we are showing the flow using the cluster **ex03-Cluster-c6**

Select the cluster **ex03-Cluster-c6** & click on **Actions**



Oracle Enterprise Manager: Exadata Management

+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

Learn More

Acknowledgements

+ Need Help?

Target	Status	Deployment Type	Infrastructure Type	AHF Version	AHF Management Enabled	EXAchk Service Status	TFA Service Status	Actions
DB Machine exa03.rsthybrid.oracle.com	On-Premises	Dedicated	—	25.5.0	✓	✗	✗	⋮
Virtual Platforms	—	—	—	25.5.0	✓	✗	✗	⋮
exa03-Cluster-06	—	—	—	25.5.0	✓	✓	✓	⋮
exa03badm03vm06.rsthybrid.oracle.c	—	—	—	25.5.0	✓	✓	✓	⋮
exa03badm04vm06.rsthybrid.oracle.c	—	—	—	25.5.0	✓	✓	✓	⋮
exa03-Cluster-05	—	—	—	25.5.0	✓	✓	✓	⋮
exa03-Cluster-04	—	—	—	25.5.0	✓	✓	✓	⋮
exa03-Cluster-011	—	—	—	25.5.0	✓	✓	✓	⋮
exa03-Cluster-01	—	—	—	25.5.0	✓	✓	✓	⋮
exa03-Cluster-09	—	—	—	25.5.0	✓	✗	✗	⋮

Enterprise Manager provides the below actions to manage AHF.

- Upgrade AHF
- Execute AHF Commands
- Upgrade Configuration
- Schedule Exachk Autorun
- Enable AHF Metrics

Target	Status	Deployment Type	Infrastructure Type	AHF Version	AHF Management Enabled	EXAchk Service Status	TFA Service Status	Actions
DB Machine	On-Premises	Dedicated	—	25.5.0	✓	✗	✗	⋮
Virtual Platforms	—	—	—	25.5.0	✓	✗	✗	⋮
exa03-Cluster-06	—	—	—	25.5.0	✓	✓	✓	⋮
exa03badm03vm06.rsthybrid.oracle.c	—	—	—	25.5.0	✓	✓	✓	⋮
exa03badm04vm06.rsthybrid.oracle.c	—	—	—	25.5.0	✓	✓	✓	⋮

6. Click on Execute AHF Commands

Target	Status	Deployment Type	Infrastructure Type	AHF Version	AHF Management Enabled	EXAchk Service Status	TFA Service Status	Actions
DB Machine	On-Premises	Dedicated	—	25.5.0	✓	✗	✗	⋮
Virtual Platforms	—	—	—	25.5.0	✓	✗	✗	⋮
exa03-Cluster-06	—	—	—	25.5.0	✓	✓	✓	⋮
exa03badm03vm06.rsthybrid.oracle.c	—	—	—	25.5.0	✓	✓	✓	⋮
exa03badm04vm06.rsthybrid.oracle.c	—	—	—	25.5.0	✓	✓	✓	⋮

7. Select command ahfctl and Other

Enterprise Manager allows to run these command types

- ahfctl : command-line interface to manage AHF
- exachk : configuration and best-practice validation tool for Engineered Systems



Oracle Enterprise Manager: Exadata Management

+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

Learn More

Acknowledgements

+ Need Help?

Execute AHF Commands

Execute AHF commands on the selected targets. The most frequently used ahfctl, tfactl and exachk commands can be selected from the dropdown list, and the commands can be customized in the Command to Execute text area. Click the Submit button to submit the command execution procedure. Go to the Procedure Activity page to view procedure progress. The output of the command will be displayed in the deployment procedure output.

AHF Command

Command *	ahfctl	Other
-----------	--------	-------

Command to Execute *

```
ahfctl
```

Command Instructions

- Only a single command is allowed to execute.
- Command must start with ahfctl or tfactl or exachk.
- Don't use the characters ;|<>/\

Credential *

Click Search to select a credential.

Targets

Target	Credential	AHF Version
DB Machine exa03.rsthybrid.oracle.com		25.5.0
exa03-Cluster-c6		25.5.0

8. Copy the **ahfctl** command provided and paste it in **Command to Execute** field

ahfctl statusahf -tfa -json

Copy

Execute AHF Commands

Execute AHF commands on the selected targets. The most frequently used ahfctl, tfactl and exachk commands can be selected from the dropdown list, and the commands can be customized in the Command to Execute text area. Click the Submit button to submit the command execution procedure. Go to the Procedure Activity page to view procedure progress. The output of the command will be displayed in the deployment procedure output.

AHF Command

Command *	ahfctl	Other
-----------	--------	-------

Command to Execute *

```
ahfctl statusahf -tfa -json
```

Command Instructions

- Only a single command is allowed to execute.
- Command must start with ahfctl or tfactl or exachk.
- Don't use the characters ;|<>/\

Credential *

Click Search to select a credential.

Targets

Target	Credential	AHF Version
DB Machine exa03.rsthybrid.oracle.com		25.5.0
exa03-Cluster-c6		25.5.0

9. Select the named credential **EXA_HOST_ROOT** and click **OK**

Execute AHF Commands

Execute AHF commands on the selected targets. The most frequently used ahfctl, tfactl and exachk commands can be selected from the dropdown list, and the commands can be customized in the Command to Execute text area. Click the Submit button to submit the command execution procedure. Go to the Procedure Activity page to view procedure progress. The output of the command will be displayed in the deployment procedure output.

AHF Command

Command *	ahfctl	Other
-----------	--------	-------

Command to Execute *

```
ahfctl statusahf -tfa -json
```

Command Instructions

- Only a single command is allowed to execute.
- Command must start with ahfctl or tfactl or exachk.
- Don't use the characters ;|<>/\

Credential *

OK

Targets

Target	Credential	AHF Version
DB Machine exa03.rsthybrid.oracle.com		25.5.0
exa03-Cluster-c6		25.5.0



Oracle Enterprise Manager: Exadata Management

+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

Learn More

Acknowledgements

+ Need Help?

10. Click **Submit** to submit the command execution procedure

11. Copy the **Job Id** & Click on **Close**



Oracle Enterprise Manager: Exadata Management

+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

Learn More

Acknowledgements

+ Need Help?

The screenshot shows the 'AHF Command' interface. In the 'Command' dropdown, 'ahfctl' is selected. In the 'Command to Execute' dropdown, 'ahfctl statusahf -lta -json' is entered. Under 'Credential', 'EXA_HOST_ROOT' is selected. The 'Targets' section shows a single target: 'DB Machine exa03.rsthybrid.or...'. A modal window titled 'AHF Execute Command Job Details' is open, displaying the message: 'The job has been submitted. Click on the Job ID link below to view job details.' Below this, it shows 'Job ID: ExaAHFExecuteCmd 406310280E789243E06349003C0A5F2D6', 'Status: Submitted', and 'Schedule: Immediate'. The 'AHF Version' is listed as 25.5.0. The 'Close' button in the modal is highlighted with a red box.

Task 2: Analyze AHF Command Execution Job Status

1. Click on AHF Management Jobs tab

AHF Management Jobs provides a summary of all the Oracle Enterprise Manager AHF management jobs run across all Engineered System hosts.

- o Ring charts shows total Engineered Systems, job Status & job type
- o Table view provides very detailed view of each job that have been run

The screenshot shows the 'Engineered System Autonomous Health Framework Administration' dashboard under the 'AHF Management Jobs' tab. At the top, there are three donut charts: 'Total Engineered Systems' (2), 'Job Status' (1 successful, 4 completed with errors, 3 pending), and 'Job Type' (1 execute AHF Commands, 4 schedule EXAChk Autorun). Below these are three buttons: 'View', 'Click Search to filter the table.', and a search bar. A table follows, with columns: Job ID, Job Type, Job Status, Target, Target Type, Host, and Scheduled Time. The table contains four rows of data, with the first row's Job ID 'ExaAHFExecuteCmd 406310280E789243E06349003C0A5F2D6' highlighted with a red box.

Job ID	Job Type	Job Status	Target	Target Type	Host	Scheduled Time
ExaAHFExecuteCmd 406310280E789243E06349003C0A5F2D6	Execute AHF Commands	✓	DB Machine exa03.rsthybrid.or...	2		Sun, 05 Oct 2025 22:34:07 GMT
ExaAHFExecuteCmd 403DBA21C2876EB0E06349003C0A15FC	Execute AHF Commands	⚠	2	60		Fri, 03 Oct 2025 09:57:39 GMT
ExaAHFExecuteCmd 400B0A925A6F275E06349003C0A970F	Execute AHF Commands	✓	DB Machine exa02.rsthybrid.or...	2		Tue, 30 Sep 2025 15:52:16 GMT
ExaAHFScheduleAutoruns 3FB671CF187763D1E06349003C0AB480	Schedule EXAChk Autorun	✓	DB Machine exa02.rsthybrid.or...	12		Tue, 30 Sep 2025 15:47:36 GMT

2. Filter the jobs based on the job id

Click on **filter** icon

The screenshot shows the same AHF Management Jobs dashboard as before, but with a red box highlighting the 'Filter' icon in the bottom right corner of the table header. The table data is identical to the previous screenshot.

Paste the **Job ID** copied from Task 1 in the field of Job ID.



Oracle Enterprise Manager: Exadata Management

- + Introduction
- + Get Started
- + Lab 1: Exadata Fleet Dashboards
- + Lab 2: Database Impact Advisor
- + Lab 3: Chargeback Administration
- Lab 4 (Optional): Autonomous Health Framework Administration
 - Introduction
 - Task 1: Execute AHF Command at Fleet Level
 - Task 2: Analyze AHF Command Execution Job Status
 - Learn More
 - Acknowledgements
- + Need Help?

Job ID

ExecuteCmd 406310280E789243E06349003C0AF2D6

Target

Target Type

Host

Job Status

Job Type

Scroll down & click on **Apply**



Oracle Enterprise Manager: Exadata Management

+ Introduction
+ Get Started
+ Lab 1: Exadata Fleet Dashboards
+ Lab 2: Database Impact Advisor
+ Lab 3: Chargeback Administration
- Lab 4 (Optional): Autonomous Health Framework Administration
Introduction
Task 1: Execute AHF Command at Fleet Level
Task 2: Analyze AHF Command Execution Job Status
Learn More
Acknowledgements

Host

Job Status

Job Type

Apply Close

Shows jobs that matches the Job ID provided.

Engineered System Autonomous Health Framework Administration

Page Refreshed Oct 5, 2025 10:52:51 PM EDT

Job ID	Job Type	Job Status	Target	Target Type	Host	Scheduled Time
ExaAHFExecuteCmd 406310280E789243E06349003C0AF2D6	Execute AHF Commands	Success	DB Machine exa03.rsthybrid.ora...	DB Machine	2	Sun, 05 Oct 2025 22:34:07 GMT

- Click on the job that is filtered using the job id to view the job submitted to execute the **AHF Command**



Oracle Enterprise Manager: Exadata Management

+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

Learn More

Acknowledgements

+ Need Help?

The screenshot shows the Oracle Enterprise Manager interface for Exadata Management. At the top, there are three circular dashboards: 'Total Engineered Systems' (2 nodes), 'Job Status' (4 successful, 1 completed with errors), and 'Job Type' (1 execute AHF commands, 4 schedule EXAChk Autorun). Below these are two pie charts. The main area is a table titled 'Job ID' with one row. The 'Job ID' column contains 'ExaAHFExecuteCmd 406310280E789243E06349003C0AF2D6'. The 'Job Type' column shows 'Execute AHF Commands'. The 'Job Status' column shows a green circle with '1' and '4'. The 'Target' column shows 'DB Machine exa03.rsthybrid.oracle.com'. The 'Target Type' column shows '2'. The 'Host' column shows '2'. The 'Scheduled Time' column shows 'Sun, 05 Oct 2025 22:34:07 GMT'.

A procedure activity opens in a new tab.

- Click on the **Expand All** to view all the steps performed in the job execution

The screenshot shows the 'Procedure Steps' section of the job execution details. It includes a table with columns 'View', 'Columns', and 'Status'. The 'View' column has an option 'Expand All' highlighted with a red box. The 'Status' column shows checkmarks for all rows. To the right, there is an 'Information' panel with the text: 'Select an execution step from the Procedure Steps tree on the left to see the details.'

- Select **Summary** to review the job execution summary and status

In the cluster **ex03-Cluster-c6** selected we have two nodes and the AHF command has been executed on both. This feature helps running ahf commands at scale and analyzing its output within Enterprise Manager.

The screenshot shows the 'Procedure Steps' section with the 'Summary' step selected, indicated by a red box around the checkbox. To the right, a 'Summary' panel displays the JSON output of the command execution. The output shows results for two nodes: 'DB Machine exa03.rsthybrid.oracle.com' and 'DB Machine exa03.rsthybrid.oracle.com'. Both nodes show 'Success' status. The JSON structure is as follows:

```

{
  "results": [
    {
      "engSystem": "DB Machine exa03.rsthybrid.oracle.com",
      "engSystemType": "oracle dbmachine",
      "engSystemStatus": "Success",
      "hostName": "exa03dbadm03vm06.rsthybrid.oracle.com",
      "hostType": "host",
      "hostStatus": "Success"
    },
    {
      "engSystem": "DB Machine exa03.rsthybrid.oracle.com",
      "engSystemType": "oracle dbmachine",
      "engSystemStatus": "Success",
      "hostName": "exa03dbadm04vm06.rsthybrid.oracle.com",
      "hostType": "host",
      "hostStatus": "Success"
    }
  ]
}
  
```

The summary message at the bottom states: 'Step: Summary has been executed successfully.'

- Select **Run Command** under one of the node to review command output



Oracle Enterprise Manager: Exadata Management

+ Introduction

+ Get Started

+ Lab 1: Exadata Fleet Dashboards

+ Lab 2: Database Impact Advisor

+ Lab 3: Chargeback Administration

- Lab 4 (Optional): Autonomous Health Framework Administration

Introduction

Task 1: Execute AHF Command at Fleet Level

Task 2: Analyze AHF Command Execution Job Status

Learn More

Acknowledgements

+ Need Help?

Run EXP4PERFERENCEWU
406310280E7B9243E06349003C0AF2D6
Procedure Execute AHF Command
Owner SYSMAN
Status Succeeded

Scheduled Oct 5, 2025 10:34:10 PM EDT
Start Date Oct 5, 2025 10:34:10 PM EDT
Last Updated Oct 5, 2025 10:34:35 PM EDT
Completed Date Oct 5, 2025 10:34:35 PM EDT
Elapsed Time 25 seconds
Execution Id 406310280E7B9243E06349003C0AF2D6

Procedure Steps

Step Name	Status
Run Command	✓
Execute AHF Command	✓
DB Machine exa03.rsthybrid.oracle.com	✓
Run AHF Command (Host)	✓
exa03dbadm03vm06.rsthybrid.oracle.com	✓
Run AHF Command (Virtual Platforms)	✓
Summary	✓

Run Command

```

✓ Run Command
AHF_COMMAND: ahfctl statusahf -tfa -json
Verifying AHF installation:
AHF installation found at /opt/oracle.ahf
AHF version: 25.5.0

Execute command: /opt/oracle.ahf/bin/ahfctl statusahf -tfa -json
{
  "tfa": {
    "exa03dbadm03vm06": {
      "Status": "RUNNING",
      "PID": "15209",
      "Port": "49152",
      "Version": "25.5.0.0",
      "BuildId": "2505080020250529012923",
      "InventoryStatus": "COMPLETE"
    }
  }
}

```

Learn More

- Autonomous Health Framework Administration
- Engineered Systems Packs
- Enterprise Manager 24ai Documentation Library
- Enterprise Manager 24ai Tech Forum Video Playlist

Acknowledgements

- Author** - Anand Prabhu, Principal Member of Technical Staff, Enterprise Manager
- Contributors** - Swapnil Sinhal, Bjorn Bolltoft, 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

[About Oracle](#) [Contact Us](#)[Products A-Z](#) [Terms of Use & Privacy](#) [Cookie Preferences](#) [Ad Choices](#)

© Oracle