



# **Monitoring your Environment**

## Cloud Insights

NetApp  
May 15, 2022

This PDF was generated from [https://docs.netapp.com/us-en/cloudinsights/concept\\_audit.html](https://docs.netapp.com/us-en/cloudinsights/concept_audit.html) on May 15, 2022. Always check docs.netapp.com for the latest.

# Table of Contents

|                                   |   |
|-----------------------------------|---|
| Monitoring your Environment ..... | 1 |
| Auditing .....                    | 1 |

# Monitoring your Environment

## Auditing

To identify changes both expected (for tracking) or unexpected (for troubleshooting), you can view an audit trail of the Cloud Insights system events and user activities.

### Viewing Audited Events

To View the Audit page, click **Admin > Audit** in the menu. The Audit page is displayed, providing the following details for each audit entry:

- **Time** - Date and time of the event or activity
- **User** - The User who initiated the activity
- **Role** - The user's role in Cloud Insights (guest, user, administrator)
- **IP** - The IP address associated with the event
- **Action** - Type of activity, for example Login, Create, Update
- **Category** - The category of activity
- **Details** - Details of the activity

### Displaying audit entries

There are a number of different ways to view audit entries:

- You can display audit entries by choosing a particular time period (1 hour, 24 hours, 3 days, etc.).
- You can change the sort order of entries to either ascending (up arrow) or descending (down arrow) by clicking the arrow in the column header.

By default, the table displays the entries in descending time order.

- You can use the filter fields to show only the entries you want in the table. Click the [ + ] button to add additional filters.

Filter By

Category

Management

X

User

Tony

X

Action

Any

X

+

Audit (15)

| Time ↓                 | User        | Role  | IP             |
|------------------------|-------------|-------|----------------|
| 12/09/2020 10:16:42 AM | Tony Lavoie | admin | 216.240.1...   |
| 12/09/2020 10:16:42 AM | Tony Lavoie | admin | 216.240.200.25 |

☒ Create

☒ Delete

☒ Update

☐ Enable

☐ Disable

☐ Accept

## More on Filtering

You can use any of the following to refine your filter:

| Filter            | What it does   | Example                     | Result   |
|-------------------|--|-----------------------------|--|
| * (Asterisk)      | enables you to search for everything   | vol*rhel                    | returns all resources that start with "vol" and end with "rhel"    |
| ? (question mark) | enables you to search for a specific number of characters  | BOS-PRD??-S12               | returns BOS-PRD <b>12</b> -S12, BOS-PRD <b>23</b> -S12, and so on  |
| OR                | enables you to specify multiple entities   | FAS2240 OR CX600 OR FAS3270 | returns any of FAS2440, CX600, or FAS3270                          |
| NOT               | allows you to exclude text from the search results   | NOT EMC*                    | returns everything that does not start with "EMC"                  |
| None              | searches for blank/NULL/None in any field where selected   | None                        | returns results where the target field is not empty                |
| Not *             | as with <i>None</i> above, but you can also use this form to search for NULL values in <i>text-only</i> fields | Not *                       | returns results where the target field is not empty.               |
| ""                | searches for an exact match  | "NetApp*"                   | returns results containing the exact literal string <i>NetApp*</i> |

If you enclose a filter string in double quotes, Insight treats everything between the first and last quote as an exact match. Any special characters or operators inside the quotes will be treated as literals. For example, filtering for ""\*"" will return results that are a literal asterisk; the asterisk will not be treated as a wildcard in this case. The operators OR and NOT will also be treated as literal strings when enclosed in double quotes.

## Audited Events and Actions

The events and actions audited by Cloud insights can be categorized in the following broad areas:

- **User account:** Log in, log out, role change, etc.

Example: User **Tony Lavoie** logged in from **10.1.120.15**, user agent **Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/85.0.4183.121 Safari/537.36**, login method(s) **Cloud Central Portal Login**

- **Acquisition Unit:** create, delete, etc.

Example: Acquisition unit **AU-Boston-1** removed.

- **Data Collector:** add, remove, modify, postpone/resume, change acquisition unit, start/stop, etc.

Example: Datasource **FlexPod Lab** removed, vendor **NetApp**, model **ONTAP Data Management Software**, ip **192.168.106.5**.

- **Application:** add, assign to object, remove, etc.

Example: *Internal Volume **ocisedev:t1appSVM01:t1appFlexVol01** added to application **Test App**.*

- **Annotation:** add, assign, remove, annotation rule actions, annotation value changes, etc.

Example: *Annotation value **Boston** added to annotation type **SalesOffice**.*

- **Query:** add, remove, etc.

Example: *Query **TL Sales Query** is added.*

- **Monitor:** add, remove, etc.

Example: *Monitor **Aggr Size - CI Alerts Notifications Dev** updated*

- **Notification:** change email, etc.

Example: *Recipient **ci-alerts-notifications-dl** created*

## Exporting Audit Events

You can export the results of your Audit display to a .CSV file, which will allow you to analyze the data or import it into another application.

### Steps

1. On the Audit page, set the desired time range and any filters you want. Cloud Insights will export only the Audit entries that match the filtering and time range you have set.
2. Click the *Export* button  in the upper right of the table.

The displayed Audit events will be exported to a .CSV file, up to a maximum of 10,000 rows.

## Retention of Audit Data

The amount of time Cloud Insights retains Audit data is based on your Edition:

- Basic Edition: Audit data is retained for 30 days
- Standard and Premium Editions: Audit data is retained for 1 year plus 1 day

Audit entries older than the retention time are automatically purged. No user interaction is needed.

## Troubleshooting

Here you will find suggestions for troubleshooting problems with Audit.

| Problem:  | Try this:   |
|---|---|
| I see Audit messages telling me that a monitor has been exported. | Export of a custom monitor configuration is typically used by NetApp engineers during development and testing of new features. If you did not expect to see this message, please consider exploring the actions of the user named in the audited action or contact support. |

## Copyright Information

Copyright © 2022 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system-without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

## Trademark Information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.