Update deprecated EMS event mapping

ONTAP 9

NetApp
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Table of Contents

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Learn about ONTAP EMS event mapping models

Prior to ONTAP 9.0, EMS events could only be mapped to event destinations based on event name pattern matching. The ONTAP command sets (`event destination`, `event route`) that use this model continue to be available in the latest versions of ONTAP, but they have been deprecated starting with ONTAP 9.0.

Beginning with ONTAP 9.0, the best practice for ONTAP EMS event destination mapping is to use the more scalable event filter model in which pattern matching is done on multiple fields, using the `event filter`, `event notification`, and `event notification destination` command sets.

If your EMS mapping is configured using the deprecated commands, you should update your mapping to use the `event filter`, `event notification`, and `event notification destination` command sets. Learn more about `event` in the ONTAP command reference.

There are two types of event destinations:

1. **System-generated destinations**: There are five system-generated event destinations (created by default)

   ° `allevents`

   ° `asup`

   ° `criticals`

   ° `pager`

   ° `traphost`

   Some of the system-generated destinations are for special purpose. For example, the asup destination routes callhome.* events to the AutoSupport module in ONTAP to generate AutoSupport messages.

2. **User-created destinations**: These are manually created using the `event destination create` command.

```
cluster-1::event*> destination show
                                                              Hide
Name             Mail Dest.        SNMP Dest.        Syslog Dest.
Params
---------------- ----------------- ----------------- -----------------
------
allevents        -                 -                 -
false
asup             -                 -                 -
false
criticals        -                 -                 -
false
pager            -                 -                 -
false
traphost         -                 -                 -
false
5 entries were displayed.
+
cluster-1::event*> destination create -name test -mail test@xyz.com
This command is deprecated. Use the "event filter", "event notification
destination" and "event notification" commands, instead.
+
cluster-1::event*> destination show
+
Hide
Name             Mail Dest.        SNMP Dest.        Syslog Dest.
Params
---------------- ----------------- ----------------- -----------------
------
allevents        -                 -                 -
false
asup             -                 -                 -
false
criticals        -                 -                 -
false
pager            -                 -                 -
false
test             test@xyz.com      -                 -
false
traphost         -                 -                 -
false
6 entries were displayed.
```

In the deprecated model, EMS events are individually mapped to a destination using the `event route add-destinations` command.

```
cluster-1::event*> route add-destinations -message-name raid.aggr.*
-destinations test
This command is deprecated. Use the "event filter", "event notification
destination" and "event notification" commands, instead.
4 entries were acted on.

cluster-1::event*> route show -message-name raid.aggr.*
                                                      Freq
Time
Message                         Severity      Destinations  Threshd
Threshd
------------------------------- ------------- ------------- -------
-------
raid.aggr.autoGrow.abort        NOTICE        test          0        0
raid.aggr.autoGrow.success      NOTICE        test          0        0
raid.aggr.lock.conflict         INFORMATIONAL test          0        0
raid.aggr.log.CP.count          DEBUG         test          0        0
4 entries were displayed.
```

The new, more scalable EMS event notifications mechanism is based on event filters and event notification destinations. Refer to the following KB article for detailed information on the new event notification mechanism:

- Overview of Event Management System for ONTAP 9

Event route — Event 1 → **Event Destination1** someone@example.com

Event route — Event 2 → **Event Destination2** syslog-server-1

Event route — Event 3 → **Event Destination3** someone@example.com, syslog-server-2, snmp-server-1

Event notification based model

Event1 — matches filter based on rules → Event filter1 — Event Notification → **Event notification destination1** someone@example.com

Event1, Event2, Event3 — matches filter based on rules → Event filter2 — Event Notification → **Event notification destination2** syslog-server-1
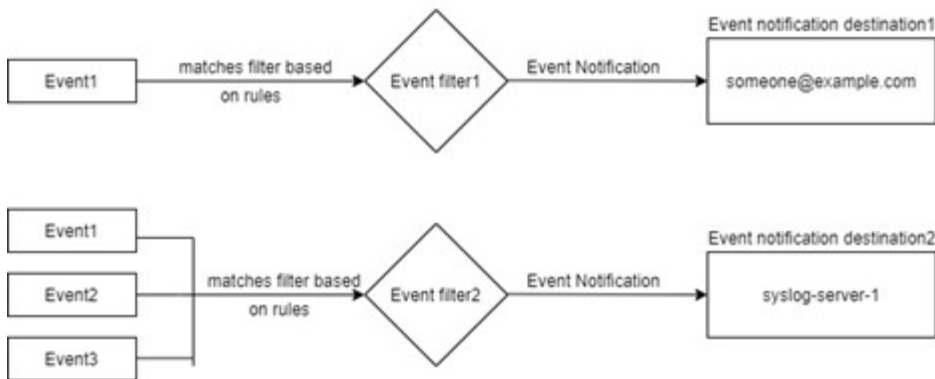
Update ONTAP EMS event mapping from deprecated commands

If your EMS event mapping is currently configured using the deprecated ONTAP command sets (`event destination`, `event route`), you should follow this procedure to update your mapping to use the `event filter`, `event notification`, and `event notification destination` command sets.

Steps

1. List all the event destinations in the system using the `event destination show` command.

```
cluster-1::event*> destination show

Hide
Name              Mail Dest.        SNMP Dest.        Syslog Dest.
Params
---------------- ---------------- ---------------- ----------------
------
allevents        -                -                -
false
asup             -                -                -
false
criticals        -                -                -
false
pager            -                -                -
false
test             test@xyz.com     -                -
false
traphost         -                -                -
false
6 entries were displayed.
```

2. For each destination, list the events being mapped to it using the `event route show -destinations`
   `<destination name>` command.

```
cluster-1::event*> route show -destinations test
                                                            Freq
Time
Message                          Severity      Destinations  Threshd
Threshd
-------------------------------- ------------- ------------- -------
-------
raid.aggr.autoGrow.abort         NOTICE        test          0        0
raid.aggr.autoGrow.success       NOTICE        test          0        0
raid.aggr.lock.conflict          INFORMATIONAL test          0        0
raid.aggr.log.CP.count           DEBUG         test          0        0
4 entries were displayed.
```

3. Create a corresponding `event filter` which includes all these subsets of events. For example, if you
   want to include only the `raid.aggr.*` events, use a wildcard for the `message-name` parameter when
   creating the filter. You can also create filters for single events.

   Learn more about `event filter` in the ONTAP command reference.

   (i)   You can create up to 50 event filters.

```
cluster-1::event*> filter create -filter-name test_events

cluster-1::event*> filter rule add -filter-name test_events -type
include -message-name raid.aggr.*

cluster-1::event*> filter show -filter-name test_events
Filter Name Rule       Rule        Message Name              SNMP Trap Type
Severity
            Position Type
----------- -------- --------- --------------------- ---------------
--------
test_events
            1          include   raid.aggr.*               *                    *
            2          exclude   *                         *                    *
2 entries were displayed.
```

4. Create an `event notification destination` for each of the `event destination` endpoints (i.e., SMTP/SNMP/syslog)

```
cluster-1::event*> notification destination create -name dest1 -email
test@xyz.com

cluster-1::event*> notification destination show
Name             Type        Destination
-------------- ---------- --------------------
dest1            email       test@xyz.com (via "localhost" from
"admin@localhost", configured in "event config")
snmp-traphost   snmp        - (from "system snmp traphost")
2 entries were displayed.
```

Learn more about `event notification destination` and `event destination` in the ONTAP command reference.

5. Create an event notification by mapping the event filter to the event notification destination.

```
cluster-1::event*> notification create -filter-name asup_events
-destinations dest1

cluster-1::event*> notification show
ID   Filter Name                         Destinations
---- ----------------------------------  -----------------
1    default-trap-events                 snmp-traphost
2    asup_events                         dest1
2 entries were displayed.
```

6. Repeat steps 1-5 for each `event destination` that has an `event route` mapping.

> (i) Events routed to SNMP destinations should be mapped to the `snmp-traphost` event notification destination. The SNMP traphost destination uses the system configured SNMP traphost.

```
cluster-1::event*> system snmp traphost add 10.234.166.135

cluster-1::event*> system snmp traphost show
        scspr2410142014.gdl.englab.netapp.com
(scspr2410142014.gdl.englab.netapp.com) <10.234.166.135>    Community:
public

cluster-1::event*> notification destination show -name snmp-traphost

               Destination Name: snmp-traphost
            Type of Destination: snmp
                    Destination: 10.234.166.135 (from "system snmp
traphost")
 Server CA Certificates Present?: -
   Client Certificate Issuing CA: -
Client Certificate Serial Number: -
        Client Certificate Valid?: -
```