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EMS configuration

ONTAP 9

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EMS configuration

EMS configuration overview

This content describes how to quickly configure ONTAP 9 to send important EMS (Event Management System) event notifications directly to an email address, a syslog server, or a Simple Management Network Protocol (SNMP) traphost so that you are immediately notified of system issues that require prompt attention.

To monitor the most important activities in your system, you must monitor the important EMS events.

Because important event notifications are not enabled by default, you must configure the EMS to send notifications to either an email address, a syslog server, or an SNMP traphost.

Use this content to configure EMS event notifications for important events if the following are true:

- You are implementing one of the following scenarios:
 - You are setting up a new system running ONTAP 9 that does not have EMS configured.
 - You have an existing system running ONTAP 9 that does not have EMS configured.
 - You are upgrading to ONTAP 9 that does not have EMS configured.
 - You have just completed a transition from Data ONTAP operating in 7-Mode to ONTAP 9.
- You want to use best practices, not explore every available option.
- You do not want to read a lot of conceptual background.

You can find the EMS Event Catalog under More Resources on this page: ONTAP 9 Product Library.

Configure EMS event notifications and filters with System Manager

You can use System Manager to configure how the Event Management System (EMS) delivers event notifications so that you can be notified of system issues that require your prompt attention.

ONTAP version	With ONTAP System Manager, you can
ONTAP 9.10.1	Configure email addresses, syslog servers, and REST API clients (WebHooks), as well as SNMP traphosts.
ONTAP 9.7 to 9.10.0	Configure only SNMP traphosts. You can configure other EMS destination with the ONTAP CLI. See EMS configuration overview.

You can perform the following procedures:

- · Add an EMS event notification destination
- · Create a new EMS event notification filter

- Edit an EMS event notification destination
- · Edit an EMS event notification filter
- Delete an EMS event notification destination
- Delete an EMS event notification filter

Related information

- EMS Event Catalog
- Using the CLI to configure SNMP traphosts to receive event notifications

Add an EMS event notification destination

You can use System Manager to specify to where you want EMS messages sent.

Steps

- 1. Click Cluster > Settings.
- 2. In the Notifications Management section, click ; , then click View Event Destinations.
- 3. On the **Notification Management** page, select the **Events Destinations** tab.
- 4. Click + Add.
- 5. Specify a name, an EMS destination type, and filters.
 - (i)

If needed, you can add a new filter. Click Add a New Event Filter.

6. Depending on the EMS destination type you selected, specify the following:

To configure	Specify or select
SNMP traphost	Traphost name
Email (Beginning with 9.10.1)	Destination email addressMail serverFrom email address
Syslog server (Beginning with 9.10.1)	Host name or IP address of the server
Webhook (Beginning with 9.10.1)	 Webhook URL Client authentication (select this option to specify a client certificate)

Create a new EMS event notification filter

Beginning with ONTAP 9.10.1, you can use System Manager to define new customized filters that specify the rules for handling EMS notifications.

Steps

- 1. Click Cluster > Settings.
- 2. In the Notifications Management section, click :, then click View Event Destinations.
- 3. On the **Notification Management** page, select the **Event Filters** tab.
- Click + Add.
- 5. Specify a name, and select whether you want to copy rules from an existing event filter or add new rules.
- 6. Depending on your choice, perform the following steps:

If you choose	Then, perform these steps
Copy rules from existing event filter	 Select an existing event filter. Modify the existing rules. Add other rules, if needed, by clicking + Add.
Add new rules	Specify the type, name pattern, severities, and SNMP trap type for each new rule.

Edit an EMS event notification destination

Beginning with ONTAP 9.10.1, you can use System Manager to change the event notification destination information.

Steps

- 1. Click Cluster > Settings.
- 2. In the Notifications Management section, click :, then click View Event Destinations.
- 3. On the Notifications Management page, select the Events Destinations tab.
- 4. Next to the name of the event destination, click :, then click **Edit**.
- 5. Modify the event destination information, then click **Save**.

Edit an EMS event notification filter

Beginning with ONTAP 9.10.1, you can use System Manager to modify customized filters to change how event notifications are handled.



You cannot modify system-defined filters.

Steps

- Click Cluster > Settings.
- 2. In the **Notifications Management** section, click ; then click **View Event Destinations**.
- 3. On the **Notification Management** page, select the **Event Filters** tab.
- 4. Next to the name of the event filter, click :, then click Edit.
- 5. Modify the event filter information, then click **Save**.

Delete an EMS event notification destination

Beginning with ONTAP 9.10.1, you can use System Manager to delete an EMS event notification destination.



You cannot delete SNMP destinations.

Steps

- 1. Click Cluster > Settings.
- 2. In the **Notifications Management** section, click ; then click **View Event Destinations**.
- 3. On the Notification Management page, select the Events Destinations tab.
- 4. Next to the name of the event destination, click •, then click **Delete**.

Delete an EMS event notification filter

Beginning with ONTAP 9.10.1, you can use System Manager to delete customized filters.



You cannot delete system-defined filters.

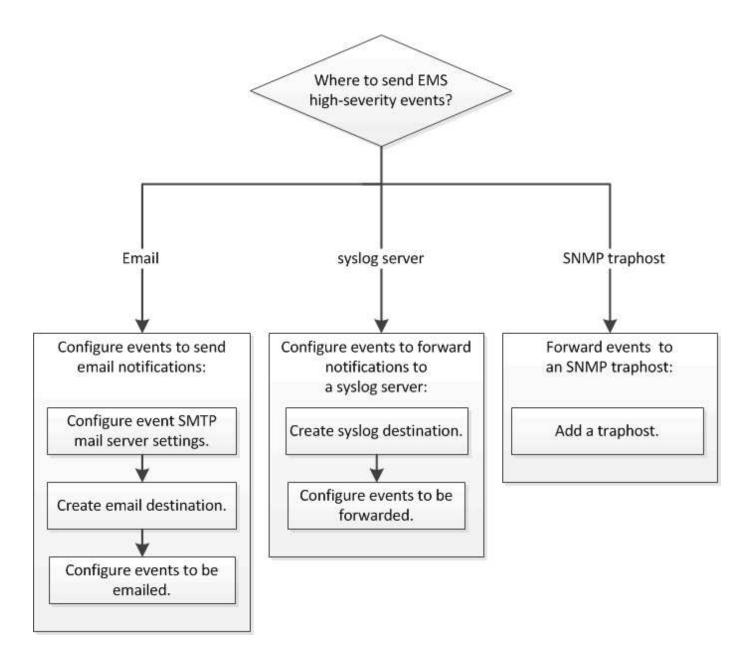
Steps

- 1. Click Cluster > Settings.
- 2. In the Notifications Management section, click :, then click View Event Destinations.
- 3. On the **Notification Management** page, select the **Event Filters** tab.
- 4. Next to the name of the event filter, click ; then click **Delete**.

Configure EMS event notifications with the CLI

EMS configuration workflow

You must configure important EMS event notifications to be sent either as email, forwarded to a syslog server, or forwarded to an SNMP traphost. This helps you to avoid system disruptions by taking corrective actions in a timely manner.



Decide where to send important event notifications

Before you configure important EMS event notifications, you need to decide whether to send the notifications to an email address, a syslog server, or an SNMP traphost.

About this task

If your environment already contains a syslog server for aggregating the logged events from other systems, such as servers and applications, then it is easier to use that syslog server also for important event notifications from storage systems.

If your environment does not already contain a syslog server, then it is easier to use email for important event notifications.

If you already forward event notifications to an SNMP traphost, then you might want to monitor that traphost for important events.

Choices

Set EMS to send event notifications.

If you want	Refer to this
The EMS to send important event notifications to an email address	Configuring important EMS events to send email notifications
The EMS to forward important event notifications to a syslog server	Configuring important EMS events to forward notifications to a syslog server
If you want the EMS to forward event notifications to an SNMP traphost	Configuring SNMP traphosts to receive event notifications

Configure important EMS events to send email notifications

To receive email notifications of the most important events, you must configure the EMS to send email messages for events that signal important activity.

What you'll need

DNS must be configured on the cluster to resolve the email addresses.

About this task

You can perform this task any time the cluster is running by entering the commands on the ONTAP command line.

Steps

1. Configure the event SMTP mail server settings:

```
event config modify -mail-server mailhost.your_domain -mail-from
cluster admin@your domain
```

2. Create an email destination for event notifications:

```
event notification destination create -name storage-admins -email your_email@your_domain
```

3. Configure the important events to send email notifications:

event notification create -filter-name important-events -destinations storage-admins

Configuring important EMS events to forward notifications to a syslog server

To log notifications of the most severe events on a syslog server, you must configure the EMS to forward notifications for events that signal important activity.

What you'll need

DNS must be configured on the cluster to resolve the syslog server name.

About this task

If your environment does not already contain a syslog server for event notifications, you must first create one. If your environment already contains a syslog server for logging events from other systems, then you might want to use that one for important event notifications.

You can perform this task any time the cluster is running by entering the commands on the ONTAP command line.

Steps

1. Create a syslog server destination for important events:

```
event notification destination create -name syslog-ems -syslog syslog-server-address
```

2. Configure the important events to forward notifications to the syslog server:

```
event notification create -filter-name important-events -destinations syslog-ems
```

Configure SNMP traphosts to receive event notifications

To receive event notifications on an SNMP traphost, you must configure a traphost.

What you'll need

• SNMP and SNMP traps must be enabled on the cluster.



SNMP and SNMP traps are enabled by default.

• DNS must be configured on the cluster to resolve the traphost names.

About this task

If you do not already have an SNMP traphost configured to receive event notifications (SNMP traps), you must add one.

You can perform this task any time the cluster is running by entering the commands on the ONTAP command line.

Step

1. If your environment does not already have an SNMP traphost configured to receive event notifications, add one:

```
system snmp traphost add -peer-address snmp traphost name
```

All event notifications that are supported by SNMP by default are forwarded to the SNMP traphost.

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