Configure the ONTAP Mediator service for unplanned automatic switchover

ONTAP MetroCluster

NetApp
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Preparing to install the ONTAP Mediator service

Beginning with ONTAP 9.7, the ONTAP Mediator service can assist the MetroCluster IP configuration in performing an automatic unplanned switchover by providing a physically separate repository for status information. Your environment must meet the following requirements. You may need to update your Linux version.

- The ONTAP Mediator service and MetroCluster Tiebreaker software should not both be used with the same MetroCluster configuration.
- The ONTAP Mediator must be installed on a LINUX host at a separate location from the MetroCluster sites.
- The ONTAP Mediator service can support up to five MetroCluster configurations simultaneously.
- Automatic unplanned switchover is supported in ONTAP 9.7 and later.

Network requirements for using Mediator in a MetroCluster configuration

To install the ONTAP Mediator service in a MetroCluster configuration, you must ensure that the configuration meets several network requirements.

- Round trip latency

  Round trip latency must be no more than 25 ms.

- MTU

  The MTU size must be at least 1400.

- Packet loss

  Packet loss must be less than or equal to 0.01%.

- Bandwidth

  The link between the Mediator service and the MetroCluster configuration must have at least 1 Gbps of bandwidth.

Firewall requirements for ONTAP Mediator

ONTAP Mediator uses a number of ports to communicate with specific services.

- If you are using a third-party firewall:
  - HTTPS access must be enabled.
  - It must be configured to allow access on ports 31784 and 3260.

When using the default Red Hat or CentOS firewall, the firewall is automatically configured during Mediator installation.

The following table lists the ports that you must allow in your firewall:

Port/services	Source	Destination	Purpose
31784/tcp	ONTAP cluster management interfaces	ONTAP Mediator web server	REST API (HTTPS)
3260/tcp	ONTAP cluster	ONTAP Mediator iSCSI targets	iSCSI data connection for mailboxes

Guidelines for upgrading the ONTAP Mediator in a MetroCluster configuration

If you are upgrading the ONTAP Mediator you must meet the Linux version requirements and follow guidelines for the upgrade.

- The Mediator service can be upgraded from version 1.0 to 1.1.
- All Mediator versions are supported on MetroCluster IP configurations running ONTAP 9.7 or later.

Upgrading the host operating system and Mediator together

The following table provides the upgrade guidelines if you are upgrading from RHEL/CentOS 7.6 to a later RHEL/CentOS release in addition upgrading the Mediator version.

Target Linux version	Target Mediator version	Upgrade notes

RHEL/CentOS 7.7	1.1	• The upgrade must be performed in the following order: a. Upgrade the operating system from RHEL/CentOS version 7.6 to 7.7. **Note**: The ONTAP Mediator and Mediator-assisted automatic unplanned switchover is not available during the operating system upgrade. The Mediator is offline until the Mediator version 1.0 to 1.1 upgrade process is complete.. b. Reboot the host to apply the kernel module changes. c. Upgrade the Mediator from version 1.0 to 1.1. Installing or upgrading the ONTAP Mediator service • The storage iscsi-initiator show command will report that the connection to the Mediator service is down during the upgrade. • The ONTAP operating system will generate cf.mccip.med.auso.stDisabled EMS events during the upgrade. • The ONTAP operating system will generate a cf.mccip.med.auso.stEnabled EMS event when automatic unplanned switchover is re-enabled.

RHEL/CentOS 8.0 or 8.1	1.1	There is no direct upgrade path. You must remove the 1.0 version and install the 1.1 version after the operating system upgrade:
		1. Delete the Mediator service from the ONTAP configuration:
		`metrocluster configuration-settings mediator remove`
		2. Uninstall the 1.0 version of the Mediator service.
		Uninstalling the ONTAP Mediator service
		3. Upgrade the Linux operating system to version 8.0 or 8.1.
		4. Install the 1.1 version of the Mediator service.
		Installing or upgrading the ONTAP Mediator service
		5. Add the Mediator service to the ONTAP configuration:
		`metrocluster configuration-settings add -mediator-address-1.1-ip-address`

After the upgrade

After the Mediator and operating system upgrade is complete, you should issue the `storage iscsi-initiator show` command to confirm that the Mediator connections are up.

Reverting from a Mediator 1.1 installation

A direct revert from Mediator version 1.1 to 1.0 is not supported. You must remove the 1.1 version and reinstall the 1.0 version.

1. Delete the Mediator service from the ONTAP configuration:

   ```
   metrocluster configuration-settings mediator remove
   ```

2. Uninstall the 1.1 version of the Mediator service.

   Uninstalling the ONTAP Mediator service

3. Install the 1.0 version of the Mediator service.

   Installing or upgrading the ONTAP Mediator service

4. Add the Mediator service to the ONTAP configuration:

   ```
   metrocluster configuration-settings add -mediator-address-1.0-ip-address
   ```

Recovering from Linux kernel upgrades

The ONTAP Mediator requires the SCST kernel module. If the Linux kernel is updated, this dependency may lead to a loss of service. It is highly recommended that you rebuild the SCST kernel module when any kernel package changes are made.

- Upgrading from ONTAP Mediator version 1.0 to 1.1 rebuilds the SCST module.
- Kernel module changes are applied after the Linux kernel is rebooted.

You can use either of the following procedures to recover from a kernel upgrade that has resulted in loss of service for the Mediator.

Procedure	Steps

Remove and reinstall the SCST kernel module	You must have the SCST tar bundle used by your version of Mediator:
	• ONTAP Mediator 1.0 requires scst-3.3.0.tar.bz2
	• ONTAP Mediator 1.1 requires scst-3.4.0.tar.bz2
	1. Uninstall the SCST module:
	a. Download and untar the SCST tar bundle required by your version of Mediator.
	b. Run the following commands inside of the scst directory:
	`systemctl stop mediator-scst`
	`make scstadm_uninstall`
	`make iscsi_uninstall`
	`make usr_uninstall`
	`make scst_uninstall`
	`depmod`
	2. Reinstall the SCST module for your version of Mediator by issuing the following commands inside of the scst directory:
	`make scst_install`
	`make usr_install`
	`make iscsi_install`
	`make scstadm_install`
	`depmod`
	`patch /etc/init.d/scst <`
	`/opt/netapp/lib/ontap_mediator/systemd/scst.`
	`patch`
	`reboot`

Remove and reinstall ONTAP Mediator
Note: This requires a reconfiguration of the Mediator in ONTAP.
	1. Delete the Mediator service from the ONTAP configuration:
	`metrocluster configuration-settings mediator remove`
	2. Uninstall the ONTAP Mediator service.
	3. Reinstall the Mediator service.
	4. Add the Mediator service to the ONTAP configuration:
	`metrocluster configuration-settings add -mediator -address-ip-address`

Installing or upgrading the ONTAP Mediator service

To install the ONTAP Mediator service, you must ensure all prerequisites are met, get the installation package and run the installer on the host.

Before you begin

You must meet the following prerequisites.

Mediator version	Supported Linux versions
1.3	• Red Hat Enterprise Linux: 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3 • CentOS: 7.6, 7.7, 7.8, 7.9
1.2	• Red Hat Enterprise Linux: 7.6, 7.7, 7.8, 8.0, 8.1 • CentOS: 7.6, 7.7, 7.8

The kernel version must match the operating system version.

- 64-bit physical installation or virtual machine
- 8 GB RAM
- User: Root access

The best practices for installing Red Hat Enterprise Linux or CentOS and the associated repositories on your system are listed below. Systems installed or configured differently might require additional steps.

- You must install Red Hat Enterprise Linux or CentOS according to Red Hat best practices. Due to end of life support for CentOS 8.x versions, it is not recommended that you use RHEL or a compatible version of CentOS 7.x.
- While installing the ONTAP Mediator service on Red Hat Enterprise Linux or CentOS, the system must have access to the appropriate repository so that the installation program can access and install all the required software dependencies.
- For the yum installer to find dependent software in the Red Hat Enterprise Linux repositories, you must have registered the system during the Red Hat Enterprise Linux installation or afterwards by using a valid Red Hat subscription.

  See the Red Hat documentation for information about the Red Hat Subscription Manager.

- The following ports must be unused and available for the Mediator:
  - 31784
  - 3260
- If using a third-party firewall: refer to Firewall requirements for ONTAP Mediator
- If the Linux host is in a location without access to the internet, you can either install the packages manually or you must ensure that the required packages are available in a local repository.

  You can use the following link for information about setting up a repository.

  If you are using Link Aggregation Control Protocol (LACP) in a Linux environment, you must correctly

configure the kernel and make sure the `sysctl net.ipv4.conf.all.arp_ignore` is set to “2”.

The following packages are required by the ONTAP Mediator service:

All RHEL/CentOS versions	Additional packages for RHEL/CentOS 7.x	Additional packages for RHEL/CentOS 8.x
• openssl • openssl-devel • kernel-devel • gcc • libselinux-utils • make • redhat-lsb-core • patch • bzip2 • python36 • python36-devel • perl-Data-Dumper • perl-ExtUtils-MakeMaker • python3-pip	• policycoreutils-python • python36-pip	• elfutils-libelf-devel • policycoreutils-python-utils

- If signature verification is configured, it must be disabled. This can be done in one of two ways:
  - If the UEFI SecureBoot mechanism is configured, disable it.
  - Disable the signature verification mechanism by updating and regenerating the grub.cfg file:
    i. Open the /etc/default/grub file.
    ii. Add the string module.sig_enforce=0 to the end of the GRUB_CMDLINE_LINUX statement.
    iii. Regenerate the grub.cfg file to implement the change:

```
update-bootloader || update-grub || grub2-mkconfig -o
/boot/grub2/grub.cfg
```

    iv. Reboot the host.

The Mediator installation package is a self-extracting compressed tar file that includes:

- An RPM file containing all dependencies that cannot be obtained from the supported release’s repository.
- An install script.

A valid SSL certification is recommended, as documented in this procedure.

This procedure is used for an installation or an upgrade of an existing installation.

Guidelines for upgrading the ONTAP Mediator in a MetroCluster configuration

Enable access to the repositories

If your operating system is…	You must provide access to these repositories…
RHEL 7.x	rhel-7-server-optional-rpms
CentOS 7.x	C7.6.1810 - Base repository
RHEL 8.x	• rhel-8-for-x86_64-baseos-rpms • rhel-8-for-x86_64-appstream-rpms
CentOS 8.0	kernel-devel

Enable access to the repositories listed above so Mediator can access the required packages during the installation process. Use the procedure below for your operating system.

- Procedure for RHEL 7.x operating system.
- Procedure for RHEL 8.x operating system.
- Procedure for CentOS 7.x operating system.
- Procedure for CentOS 8.0.1095 or later operating system.

Procedure for RHEL 7.x operating system

If your operating system is **RHEL 7.x**:

Steps

1. Subscribe to the required repository:

   ```
   subscription-manager repos --enable rhel-7-server-optional-rpms
   ```

   The following example shows the execution of this command:

   ```
   [root@localhost ~]# subscription-manager repos --enable rhel-7-server-
   optional-rpms
   Repository 'rhel-7-server-optional-rpms' is enabled for this system.
   ```

2. Run the `yum repolist` command.

   The following example shows the execution of this command. The “rhel-7-server-optional-rpms” repository should appear in the list.

```
[root@localhost ~]# yum repolist
Loaded plugins: product-id, search-disabled-repos, subscription-manager
rhel-7-server-optional-rpms | 3.2 kB  00:00:00
rhel-7-server-rpms | 3.5 kB  00:00:00
(1/3): rhel-7-server-optional-rpms/7Server/x86_64/group
|  26 kB  00:00:00
(2/3): rhel-7-server-optional-rpms/7Server/x86_64/updateinfo
| 2.5 MB  00:00:00
(3/3): rhel-7-server-optional-rpms/7Server/x86_64/primary_db
| 8.3 MB  00:00:01
repo id                                        repo name
status
rhel-7-server-optional-rpms/7Server/x86_64   Red Hat Enterprise Linux 7
Server - Optional (RPMs)   19,447
rhel-7-server-rpms/7Server/x86_64            Red Hat Enterprise Linux 7
Server (RPMs)              26,758
repolist: 46,205
[root@localhost ~]#
```

Procedure for RHEL 8.x operating system

If your operating system is **RHEL 8.x**:

Steps

1. Subscribe to the required repository:

   ```
   subscription-manager repos --enable rhel-8-for-x86_64-baseos-rpms

   subscription-manager repos --enable rhel-8-for-x86_64-appstream-rpms
   ```

   The following example shows the execution of this command:

   ```
   [root@localhost ~]# subscription-manager repos --enable rhel-8-for-
   x86_64-baseos-rpms
   [root@localhost ~]# subscription-manager repos --enable rhel-8-for-
   x86_64-appstream-rpms
   Repository 'rhel-8-for-x86_64-baseos-rpms' is enabled for this system.
   Repository 'rhel-8-for-x86_64-appstream-rpms' is enabled for this
   system.
   ```

2. Run the `yum repolist` command.

   The newly subscribed repositories should appear in the list.

Procedure for CentOS 7.x operating system

If your operating system is **CentOS 7.x**:

Steps

1. Add the C7.6.1810 - Base repository. The C7.6.1810 - Base vault repository contains the kernel-devel package needed for ONTAP Mediator.
2. Add the following lines to /etc/yum.repos.d/CentOS-Vault.repo.

```
[C7.6.1810-base]
name=CentOS-7.6.1810 - Base
baseurl=http://vault.centos.org/7.6.1810/os/$basearch/
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-7
enabled=1
```

3. Run the `yum repolist` command.

   The following example shows the execution of this command. The “CentOS-7.6.1810 - Base” repository should appear in the list.

```
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: distro.ibiblio.org
 * extras: distro.ibiblio.org
 * updates: ewr.edge.kernel.org
C7.6.1810-base                                                | 3.6
kB  00:00:00
(1/2): C7.6.1810-base/x86_64/group_gz                         | 166
kB  00:00:00
(2/2): C7.6.1810-base/x86_64/primary_db                       | 6.0
MB  00:00:04
repo id                                          repo name
status
C7.6.1810-base/x86_64                            CentOS-7.6.1810 - Base
10,019
base/7/x86_64                                    CentOS-7 - Base
10,097
extras/7/x86_64                                  CentOS-7 - Extras
307
updates/7/x86_64                                 CentOS-7 - Updates
1,010
repolist: 21,433
[root@localhost ~]#
```

Procedure for CentOS 8.0.1905 or later operating system

> Life support for CentOS 8.x will end on December 31, 2021. If using CentOS with ONTAP, it is recommended that you revert to CentOS 7.x operating system or use RHEL.

If your operating system is **CentOS 8.0.1905 or later builds**:

Before you begin

In the CentOS Vault, locate the kernel-devel package that matches your operating system. Because the latest versions of the 8.0 (CentOS 8.0.1905 and later) core reside in the CentOS Vault, you must provide access to the matching kernel-devel package to compile the needed kernel module.

Steps

1. Directly install the kernel-devel package:

   ```
   rpm -i http://vault.centos.org/8.0.1905/BaseOS/x86_64/os/Packages/kernel-devel-$(uname -r).rpm
   ```

   > The above command is an example that is specific to CentOS 8.0.1905. Change the path where appropriate for other CentoOS 8.x builds.

2. If the system displays an error indicating that the package is already installed, remove the package and try again:

   a. Remove the kernel-devel package:

      ```
      yum remove kernel-devel
      ```

   b. Repeat the `rpm` command shown in Step 1.

Download the Mediator installation package

Steps

1. Download the Mediator installation package from the ONTAP Mediator page.

   ONTAP Mediator download page

2. Confirm that the Mediator installation package is in the target directory:

   ```
   ls
   ```

   ```
   [root@mediator-host ~]#ls
   ./ontap-mediator_1.3
   ```

   If you are at a location without access to the internet, you must ensure that the installer has access to the required packages.

3. If necessary, move the Mediator installation package from the download directory to the installation directory on the Linux Mediator host.

Install the ONTAP Mediator installation package

Step

1. Install the Mediator installation package and respond to the prompts as required:

   ```
   ./ontap-mediator_1.3
   ```

   The installation process proceeds to create the required accounts and install required packages. If you have a previous version of Mediator installed on the host, you will be prompted to confirm that you want to upgrade.

Example of ONTAP Mediator installation (console output)

Verify the installation

Steps

1. Run the following command to view the status of the ONTAP Mediator services:

   ```
   systemctl
   ```

```
 [root@scspr1915530002 ~]# systemctl status ontap_mediator mediator-scst

        · ontap_mediator.service - ONTAP Mediator
           Loaded: loaded
(/opt/netapp/lib/ontap_mediator/systemd/ontap_mediator.service; enabled;
vendor preset: disabled)

           Active: active (running) since Thu 2020-06-18 09:55:02 EDT;
3 days ago

         Main PID: 3559 (uwsgi)

           Status: "uWSGI is ready"

           CGroup: /system.slice/ontap_mediator.service

                   \u251c\u25003559
/opt/netapp/lib/ontap_mediator/pyenv/bin/uwsgi --ini
/opt/netapp/lib/ontap_mediator/uwsgi/ontap_mediator.ini

                   \u251c\u25004510
/opt/netapp/lib/ontap_mediator/pyenv/bin/uwsgi --ini
/opt/netapp/lib/ontap_mediator/uwsgi/ontap_mediator.ini

                   \u2514\u25004512
/opt/netapp/lib/ontap_mediator/pyenv/bin/uwsgi --ini
/opt/netapp/lib/ontap_mediator/uwsgi/ontap_mediator.ini
```

```
         Jun 18 09:54:43 scspr1915530002 systemd[1]: Starting ONTAP
Mediator...

         Jun 18 09:54:45 scspr1915530002 ontap_mediator[3559]: [uWSGI]
getting INI configuration from
/opt/netapp/lib/ontap_mediator/uwsgi/ontap_mediator.ini

         Jun 18 09:55:02 scspr1915530002 systemd[1]: Started ONTAP
Mediator.



         · mediator-scst.service
            Loaded: loaded
(/opt/netapp/lib/ontap_mediator/systemd/mediator-scst.service; enabled;
vendor preset: disabled)

            Active: active (running) since Thu 2020-06-18 09:54:51 EDT;
3 days ago

           Process: 3564 ExecStart=/etc/init.d/scst start (code=exited,
status=0/SUCCESS)

         Main PID: 4202 (iscsi-scstd)

            CGroup: /system.slice/mediator-scst.service

                    \u2514\u25004202 /usr/local/sbin/iscsi-scstd



         Jun 18 09:54:43 scspr1915530002 systemd[1]: Starting mediator-
scst.service...

         Jun 18 09:54:48 scspr1915530002 iscsi-scstd[4200]:
max_data_seg_len 1048576, max_queued_cmds 2048

         Jun 18 09:54:51 scspr1915530002 scst[3564]: Loading and
configuring SCST[  OK  ]

         Jun 18 09:54:51 scspr1915530002 systemd[1]: Started mediator-
scst.service.

         [root@scspr1915530002 ~]#
```

2. Confirm the ports the ONTAP Mediator service is using: netstat

```
[root@scspr1905507001 ~]# netstat -anlt | grep -E '3260|31784'

tcp        0      0 0.0.0.0:31784           0.0.0.0:*
LISTEN

tcp        0      0 0.0.0.0:3260            0.0.0.0:*
LISTEN

tcp6       0      0 :::3260                 :::*
LISTEN
```

Result

The ONTAP Mediator service is now installed and running. Further configuration must be performed in the ONTAP storage system to use the Mediator features.

Configuring the ONTAP Mediator service from a MetroCluster IP configuration

The ONTAP Mediator service must be configured on the ONTAP node for use in a MetroCluster IP configuration.

Before you begin

- The ONTAP Mediator must have been successfully installed on a network location that can be reached by both MetroCluster sites.
- You must have the IP address of the host running the ONTAP Mediator service.
- You must have the username and password for the ONTAP Mediator service.
- All nodes of the MetroCluster IP configuration must be online.

About this task

- This task enables automatic unplanned switchover by default.
- This task can be performed on the ONTAP interface of any node in the MetroCluster IP configuration.
- A single installation of the ONTAP Mediator service can be configured with up to five MetroCluster IP configurations.

Steps

1. Add the ONTAP Mediator service to ONTAP:

   `metrocluster configuration-settings mediator add -mediator-address` *`ip-address-of-mediator-host`*

   You will be prompted for the username and password for the Mediator admin user account.

2. Verify that the automatic switchover feature in enabled:

   ```
   metrocluster show
   ```

3. Verify that the Mediator is now running.
   a. Show the Mediator virtual disks:

      ```
      storage disk show -container-type mediator
      ```

      ```
       cluster_A::> storage disk show -container-type mediator
                            Usable           Disk    Container
      Container
       Disk                 Size Shelf Bay Type    Type        Name
      Owner
       ---------------- ---------- ----- --- ------- ----------- ---------
      --------
       NET-1.5                 -     -   - VMDISK  mediator    -
      node_A_2
       NET-1.6                 -     -   - VMDISK  mediator    -
      node_B_1
       NET-1.7                 -     -   - VMDISK  mediator    -
      node_B_2
       NET-1.8                 -     -   - VMDISK  mediator    -
      node_A_1
      ```

   b. Set the privilege mode to advanced:

      ```
      set advanced
      ```

      ```
       cluster_A::> set advanced
      ```

   c. Display the initiators labelled as mediator:

      ```
      storage iscsi-initiator show -label mediator
      ```

```
 cluster_A::*> storage iscsi-initiator show -label mediator
   (storage iscsi-initiator show)
  +
Status
 Node Type Label    Target Portal      Target Name
Admin/Op
 ---- ---- -------- ------------------
--------------------------------- --------
 node_A_1
      mailbox
           mediator 1.1.1.1       iqn.2012-
05.local:mailbox.target.6616cd3f-9ef1-11e9-aada-
00a098ccf5d8:a05e1ffb-9ef1-11e9-8f68- 00a098cbca9e:1 up/up
 node_A_2
      mailbox
           mediator 1.1.1.1       iqn.2012-
05.local:mailbox.target.6616cd3f-9ef1-11e9-aada-
00a098ccf5d8:a05e1ffb-9ef1-11e9-8f68-00a098cbca9e:1 up/up
```

Connecting a MetroCluster configuration to a different ONTAP Mediator instance

If you want to connect the MetroCluster nodes to a different ONTAP Mediator instance, you must unconfigure and then reconfigure the Mediator connection in the ONTAP software.

Before you begin

You need the username, password, and IP address of the new ONTAP Mediator instance.

About this task

These commands can be issued from any node in the MetroCluster configuration.

Steps

1. Remove the current ONTAP Mediator from the MetroCluster configuration:

   `metrocluster configuration-settings mediator remove`

2. Establish the new ONTAP Mediator connection to the MetroCluster configuration:

   `metrocluster configuration-settings mediator add -mediator-address` *`ip-address-of-mediator-host`*

Changing the ONTAP Mediator password

After you have installed ONTAP Mediator service, you might want to change the

password. You can change the password in two ways.

About this task

This task is performed on the Linux host on which the ONTAP Mediator service is installed.

If you are unable to reach this command, you might need to run the command using the full path as shown in the following example:

```
/usr/local/bin/mediator_change_password
```

Procedure

Change the password by choosing one of the following options:

- Run the mediator_change_password command and respond to the prompts as shown in the following example:

```
[root@mediator-host ~]# mediator_change_password
Change the Mediator API password by entering the following values:
   Mediator API User Name: mediatoradmin
             Old Password:
             New Password:
         Confirm Password:
The password has been updated successfully.
[root@mediator-host ~]#
```

- Run the following command:

```
MEDIATOR_USERNAME= mediatoradmin MEDIATOR_PASSWORD=mediator1
MEDIATOR_NEW_PASSWORD=mediator2 mediator_change_password
```

The example shows the password is changed from "mediator1" to "mediator2".

```
 [root@mediator-host ~]# MEDIATOR_USERNAME=mediatoradmin
MEDIATOR_PASSWORD=mediator1 MEDIATOR_NEW_PASSWORD=mediator2
mediator_change_password
 The password has been updated successfully.
 [root@mediator-host ~]#
```

Changing the ONTAP Mediator user name

After you have installed ONTAP Mediator service, you might want to change the user name. You can change the password in two ways.

About this task

This task is performed on the Linux host on which the ONTAP Mediator service is installed.

If you are unable to reach this command, you might need to run the command using the full path as shown in

the following example:

```
/usr/local/bin/mediator_username
```

Procedure

Change the username by choosing one of the following options:

- Run the command mediator_change_user and respond to the prompts as shown in the following example:

```
[root@mediator-host ~]# mediator_change_user
Modify the Mediator API username by entering the following values:
    Mediator API User Name: mediatoradmin
                  Password:
New Mediator API User Name: mediator
The account username has been modified successfully.
[root@mediator-host ~]#
```

- Run the following command:

```
MEDIATOR_USERNAME=mediator MEDIATOR_PASSWORD=mediator2
MEDIATOR_NEW_USERNAME=mediatoradmin mediator_change_user
```

```
[root@mediator-host ~]# MEDIATOR_USERNAME= mediator
MEDIATOR_PASSWORD='mediator2' MEDIATOR_NEW_USERNAME= mediatoradmin
mediator_change_user
The account username has been modified successfully.
[root@mediator-host ~]#
```

Uninstall the ONTAP Mediator service

If necessary, you can remove the ONTAP Mediator service.

Before you begin

The Mediator must be disconnected from ONTAP before you remove the Mediator service.

About this task

This task is performed on the Linux host on which the ONTAP Mediator service is installed.

If you are unable to reach this command, you might need to run the command using the full path as shown in the following example:

```
/usr/local/bin/uninstall_ontap_mediator
```

Step

1. Uninstall the ONTAP Mediator service:

```
uninstall_ontap_mediator
```

```
 [root@mediator-host ~]# uninstall_ontap_mediator

 ONTAP Mediator: Self Extracting Uninstaller

 + Removing ONTAP Mediator. (Log:
/tmp/ontap_mediator.GmRGdA/uninstall_ontap_mediator/remove.log)
 + Remove successful.
 [root@mediator-host ~]#
```