

# Change the IP Address of the Management or Telemetry Interface on CTB Manager and Broker Nodes

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## Introduction

This document describes how to change management and telemetry IP's from Cisco Telemetry Broker (CTB) Manager and Broker nodes.

## Prerequisites

### Requirements

You must have console access to the Command Line Interface (CLI) to the desired appliance is necessary to perform the change of management IP.

Cisco recommends that you have knowledge of these topics:

- Basic Linux administration
- Basic Cisco Telemetry Broker architecture

## Components used

- CTB Manager node running release 2.2.1.
- CTB Broker node running release 2.2.1.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

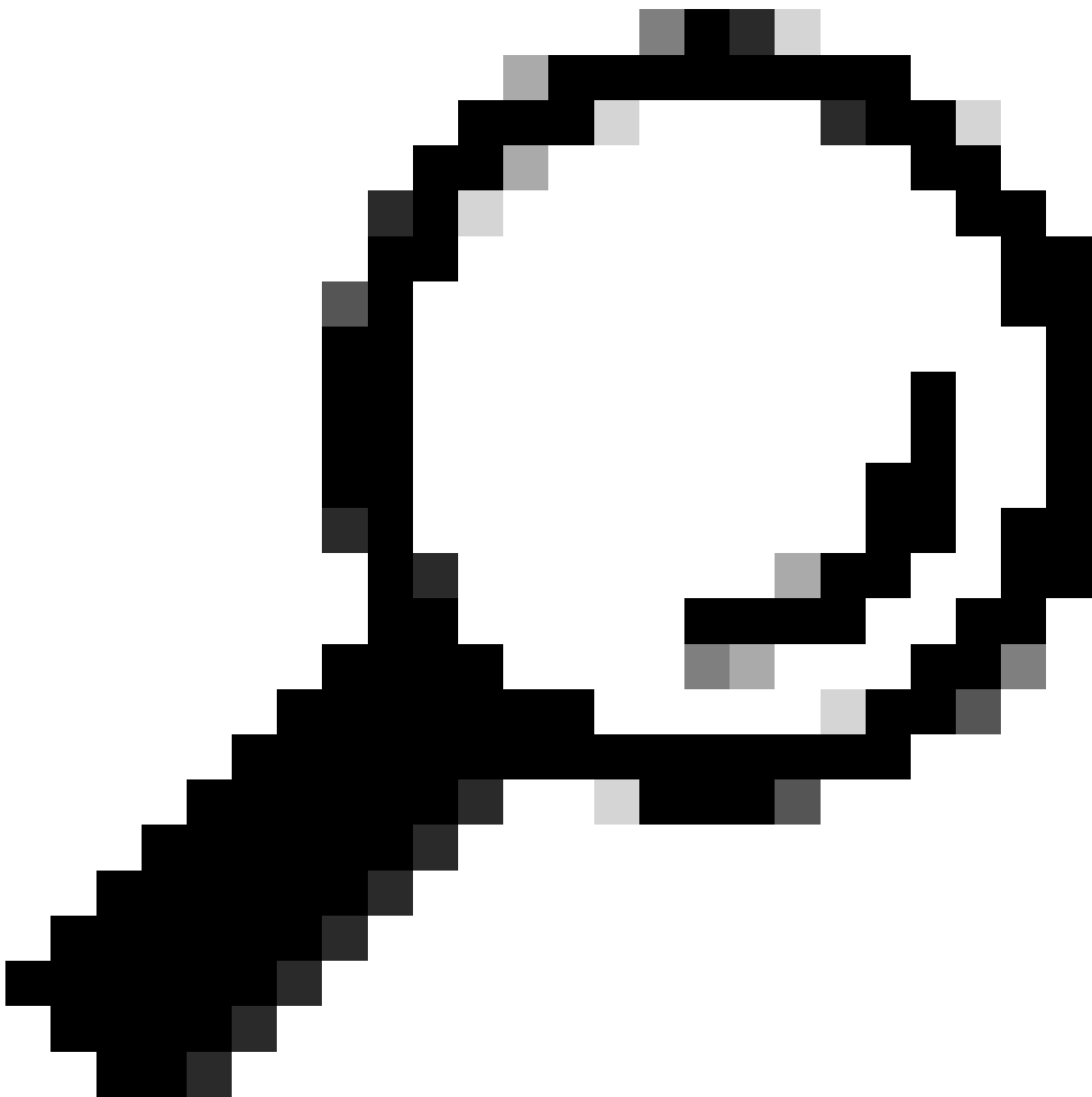
## Configure

The process of changing the management IP of either the CTB Manager or Broker node is performed individually.

In this scenario the IP address of the management interface is being changed on both the Manager node and the Broker nodes.

From a high level the process is:

- Remove all Broker nodes
- Update the Manager nodes management IP address
- Generate and upload a new certificate
- Update the Broker nodes management IP address
- Associate the Broker nodes to the manager
- Add the desired rules to the desired Brokers

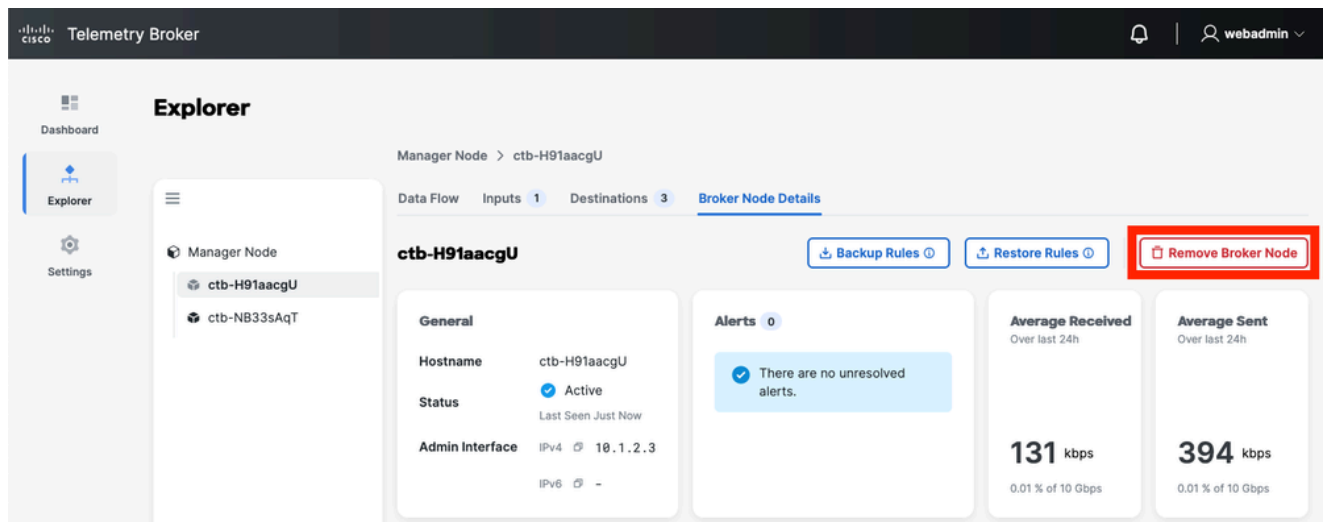


**Tip:** Broker nodes do not forward traffic as the rules are deleted when it is removed from the Manager node

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## Remove all Broker nodes

1. Log in to the CTB Manager's web interface and click **Explorer** in the left pane.
2. Remove a broker nodes by selecting a Broker node in the list and then click **Broker Node Details** > **Remove Broker Node**.



3. Repeat step 2 for all Broker nodes.

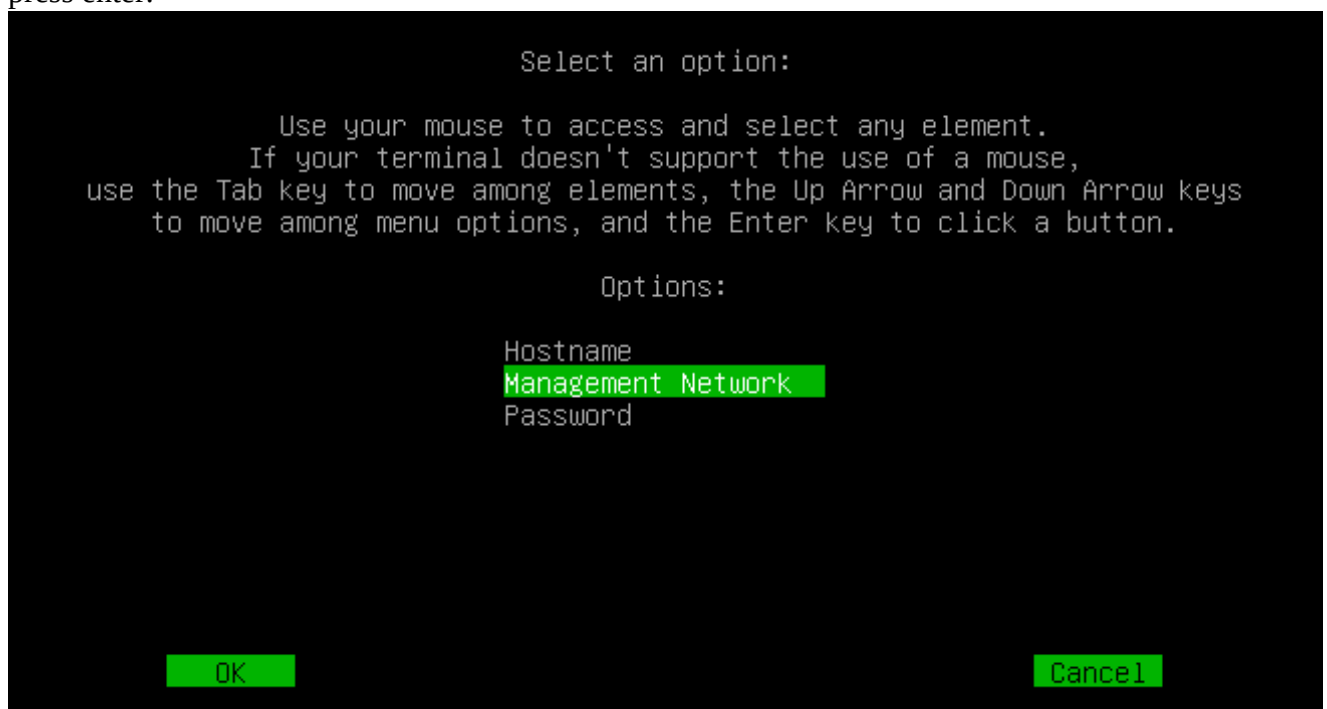
## Update the Manager nodes management IP address

1. Connect to the Manager node console, and log in as the admin user.

2. Launch the configuration utility on the Manager with the `sudo ctb-install --config` command.

```
sudo ctb-install --config
```

3. Navigate to the Management Network option using the Tab key, press the Tab key again to select OK and press enter.



4. Update the Manager's IP address, gateway, and DNS settings to the new value.

Management Network:

Use your mouse to access and select any element.  
If your terminal doesn't support the use of a mouse,  
use the Tab key to move among elements, the Up Arrow and Down Arrow keys  
to move among menu options, and the Enter key to click a button.

|                                   |            |                                       |            |
|-----------------------------------|------------|---------------------------------------|------------|
| IPv4:                             |            | Interface:                            |            |
| Address/Netmask:                  | X.X.X.X/16 |                                       | (*) ens160 |
| Gateway:                          | X.X.X.X    |                                       |            |
|                                   |            |                                       |            |
| IPv6:                             |            |                                       |            |
| Address/Netmask:                  |            |                                       |            |
| Gateway:                          |            |                                       |            |
|                                   |            |                                       |            |
| DNSs:                             |            |                                       |            |
| DNS:                              | X.X.X.X    |                                       |            |
| DNS (optional):                   |            |                                       |            |
| <input type="button" value="OK"/> |            | <input type="button" value="Cancel"/> |            |

5. Use the Tab key to highlight the **OK** option and press Enter. This restarts Manager services but does not reboot the appliance.
6. Wait a few minutes and access the CTB Manager node web interface at the new IP address.

## Generate and upload a new certificate

After changing the IP address, generate a new certificate for the Manager that includes the new IP address in the Common Name field.

For guidance, refer to this article: <https://www.cisco.com/c/en/us/support/docs/security/telemetry-broker/220537-replace-telemetry-broker-identity-certif.html>

Once the new certificate has been installed on the Manager, proceed to update the IP address on each broker node in your deployment.

## Update the Broker nodes management IP address

1. Connect to each Broker node's console, and log in as the admin user.
2. Launch the configuration utility on the Broker node with the `sudo ctb-install --config` command.  

```
sudo ctb-install --config
```
3. Navigate to the **Management Network** section using the Tab key, then select **OK** and press Enter.

Select an option:

Use your mouse to access and select any element.  
If your terminal doesn't support the use of a mouse,  
use the Tab key to move among elements, the Up Arrow and Down Arrow keys  
to move among menu options, and the Enter key to click a button.

Options:

- Hostname
- Management Network
- Telemetry Interface
- Monitoring Interface
- Password

OK Cancel

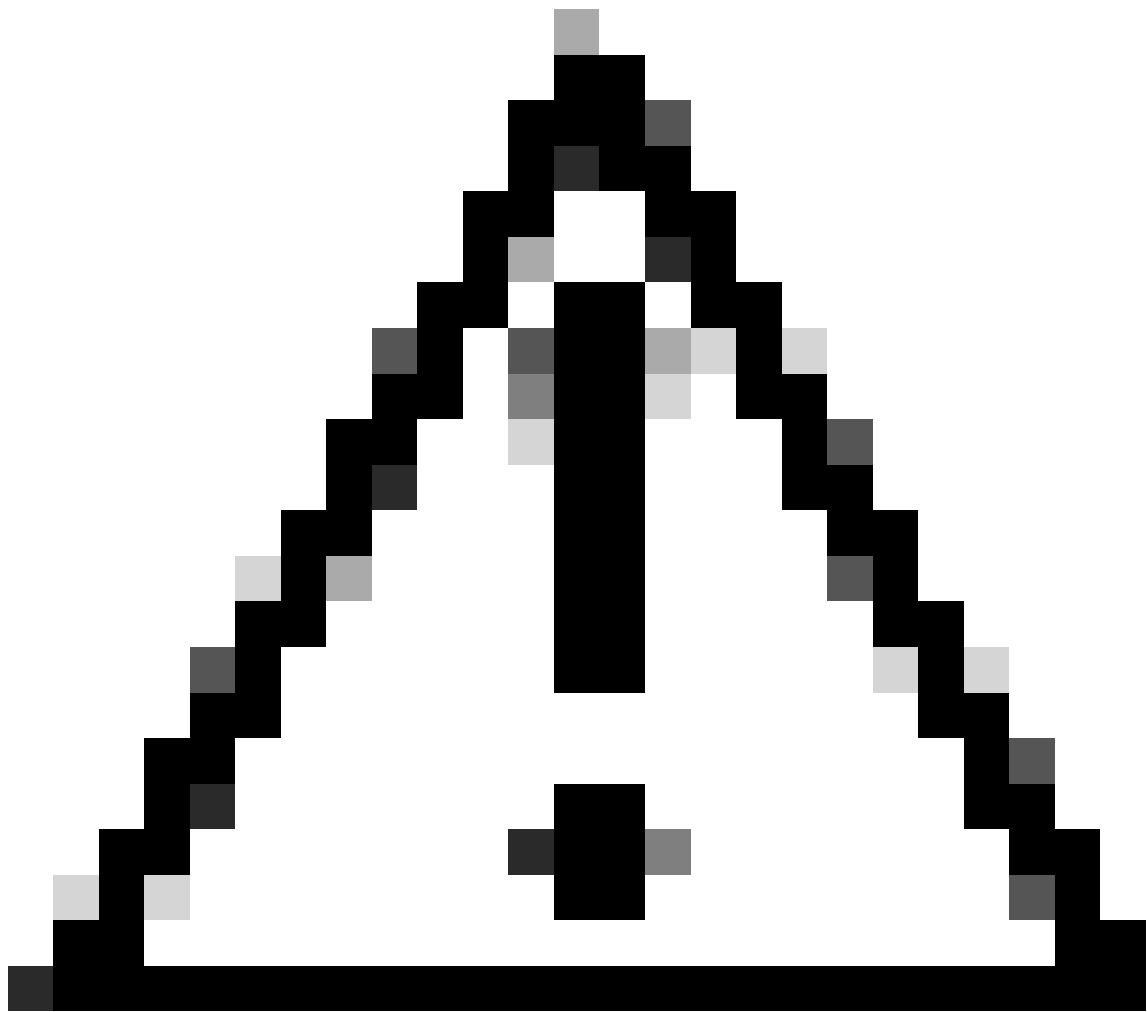
4. Update the Broker node's IP address, gateway, and DNS settings as required.

Management Network:

Use your mouse to access and select any element.  
If your terminal doesn't support the use of a mouse,  
use the Tab key to move among elements, the Up Arrow and Down Arrow keys  
to move among menu options, and the Enter key to click a button.

|                  |            |            |        |
|------------------|------------|------------|--------|
| IPV4:            |            | Interface: |        |
| Address/Netmask: | X.X.X.X/16 | (*)        | ens160 |
|                  |            | ( )        | ens224 |
| Gateway:         | X.X.X.X    |            |        |
| IPV6:            |            |            |        |
| Address/Netmask: |            |            |        |
| Gateway:         |            |            |        |
| DNSs:            |            |            |        |
| DNS:             | X.X.X.X    |            |        |
| DNS (optional):  |            |            |        |

OK Cancel



**Caution:** Do not change the Telemetry interface IP address in this menu; this is done in the Manager node's web interface.

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5. Press the Tab key to select **OK** and press Enter. This restarts certain Broker node services but does not reboot the appliance.

## Associate the Broker nodes to the manager

1. Connect to the Broker node console, and log in as the admin user.
2. Run the `sudo ctb-manage` command to associate the Broker node with the Manager:

```
sudo ctb-manage
```

3. When prompted, select option "**o**" to associate the Broker node with the new Manager.

```

root@ctb-H91aacgU:/home/admin# ctb-manage

=== Management Configuration [2025-08-27T23:19:00+00:00]

A manager configuration already exists for 10.1.2.2
Options:

(o) Associate this node with a new manager
(c) Re-fetch the manager's certificate but keep everything else
(d) Deactivate this node (should be done after removing this node on the manager UI)
(a) Abort

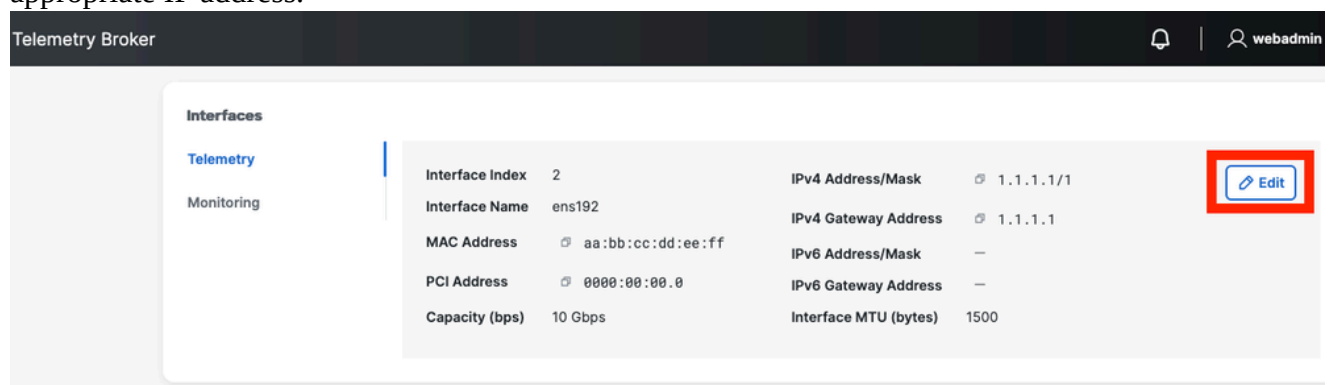
How would you like to proceed? [o/c/d/a] o_

```

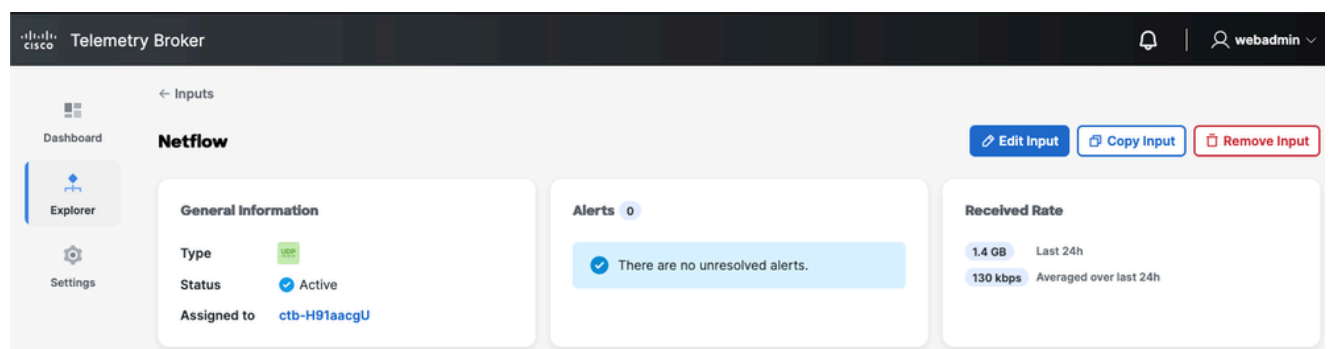
4. Complete the prompts to associate the Broker node with the Manager. Ensure the Manager's certificate includes the updated IP address for successful completion.
5. Repeat these steps for each Broker node in your deployment.

## Add the desired rules to the desired Brokers

1. Once all Broker nodes have been added, log into the Manager node's web interface and navigate to **Explorer**, select the desired Broker node, click **Edit** for the Telemetry interface, and assign the appropriate IP address.



2. Assign the new Telemetry interface to each Broker node as needed.
3. Navigate to the **Inputs** tab, select each input, and assign the appropriate Broker node to each input.



4. In the **Data Flow** tab, ensure each input is connected to a designated destination.
5. Confirm that telemetry data is being forwarded to the specified destinations.



## Verify

Log into the web interface of the Manager node.

Connect to the console of the Broker node over SSH.

## Troubleshoot

### General

Since the appliance is running a stock Debian operating system, you can apply most general Linux system administration practices to troubleshooting.

### Management Networking

The Management Network interface on the appliance is managed through the `systemd-networkd` service rather than the `ifup`, `ifdown` or `ifconfig` tools. After you have completed the installation of Cisco Telemetry Broker, you can find configuration information in this file:

`/etc/systemd/network/management.network`

### Telemetry Networking

The Manager Node manages the Telemetry Network interface on the appliance. After installation, the Telemetry Network interface is mostly invisible to the operating system.

Therefore, you must make configurations using the Cisco Telemetry Broker management layer.

### Telemetry Packet Capture

Refer to this article for performing a packet capture on Cisco Telemetry

Broker: <https://www.cisco.com/c/en/us/support/docs/security/telemetry-broker/221628-perform-a-packet-capture-in-a-telemetry.html>

### Diagnostics

The appliance contains a diagnostic tool named Mayday that can capture debug information for the Cisco Telemetry Broker engineering team.

This helpful information is useful to TAC.

To create a diagnostic pack with Mayday, simply SSH to the appliance and run the `sudo mayday` command: This compiles the relevant system information into a tar ball that can be copied off the node to another location using the SCP tool.

The location of the resulting tar ball is shown in the output.

Example:

```
$ ssh admin@<ctb-node-ip>
ctb-node> sudo mayday
<output-redacted>
2020/08/05 19:04:45 Output saved in /tmp/mayday-ctb-5SWTpSx-202008051904.677025165.tar.gz
2020/08/05 19:04:45 All done!
```

## Contact Support

If you need technical support, please do one of the following:

- Contact your local Cisco Telemetry Broker Partner
- Contact Cisco Telemetry Broker Support
- To open a case by web: <http://www.cisco.com/c/en/us/support/index.html>
- To open a case by email: [tac@cisco.com](mailto:tac@cisco.com)
- For phone support: 1-800-553-2447 (U.S.)
- For worldwide support numbers: <https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html>