

# Upgrade the Multicloud Defense Gateway from the Multicloud Defense Controller

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## Introduction

This document describes the Multicloud Defense Gateway upgrade process from the Multicloud Defense Controller.

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- Multicloud Defense Controller
- Multicloud Defense Gateway

### Components Used

The information in this document is based on these software and hardware versions:

- Multicloud Defense Gateway version 23.08-14.

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.

## Background Information

The upgrade process has no operational impact or downtime. Multicloud Defense Controller creates a new set of instances with the new image version. Once the new instances are available, the gateway begins processing traffic. Once the traffic on the old instances is flushed, the old instances are deleted.

# Configure

## Upgrade the Multicloud Defense Gateway

These pictures show the process to upgrade the Multicloud Defense Gateway. Both, Ingress and Egress gateway upgrade process are the same.

1. First, login to your Multicloud Defense Controller and navigate to Manage > Gateways.

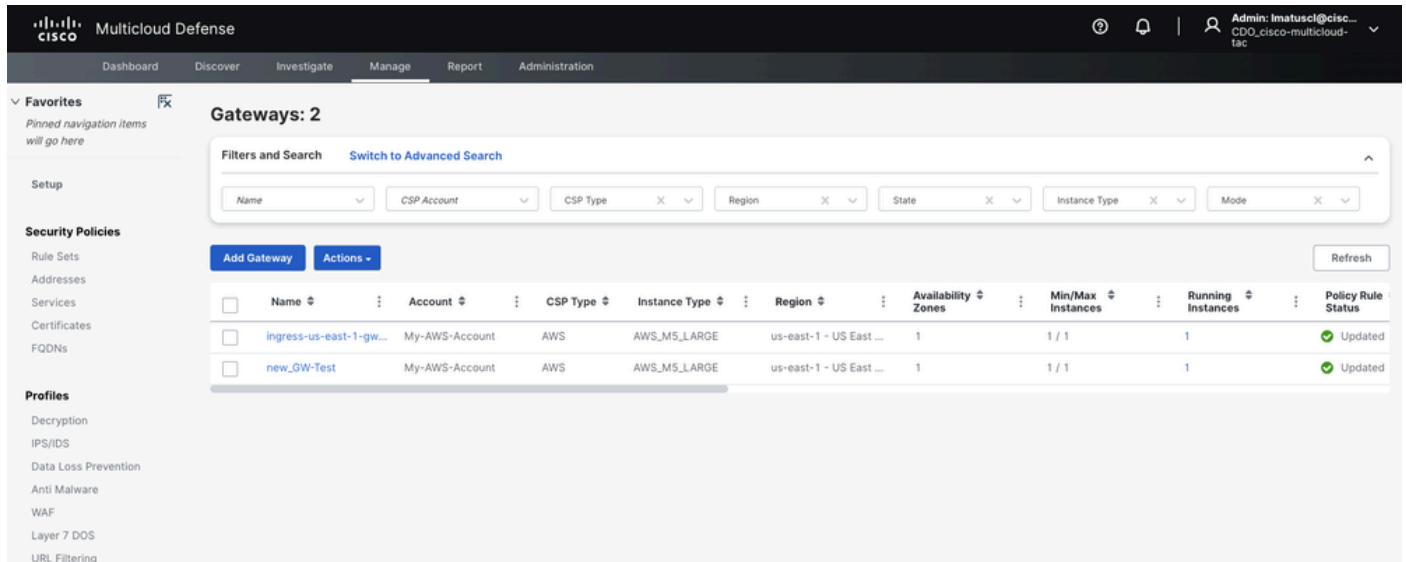


Image 1. Gateway list.

2. Identify and select the gateway you want to upgrade. You can make only one selection at this time.

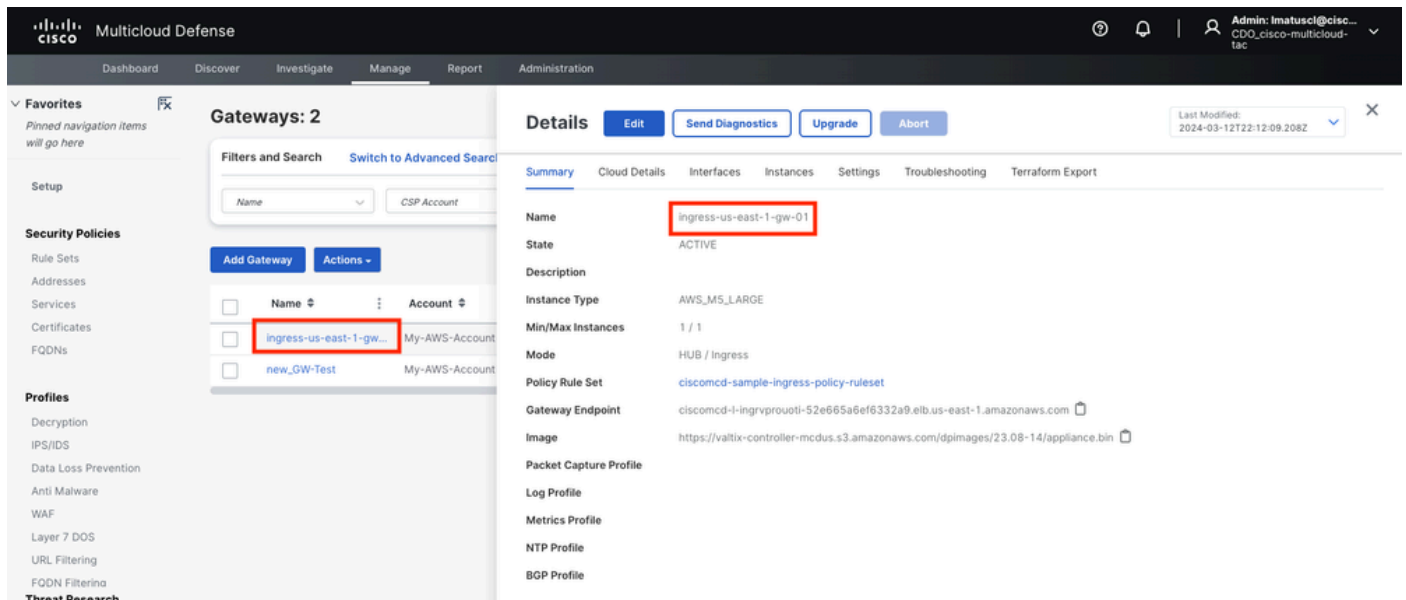


Image 2. Gateway details.

3.a. Select Upgrade from the gateway details window.

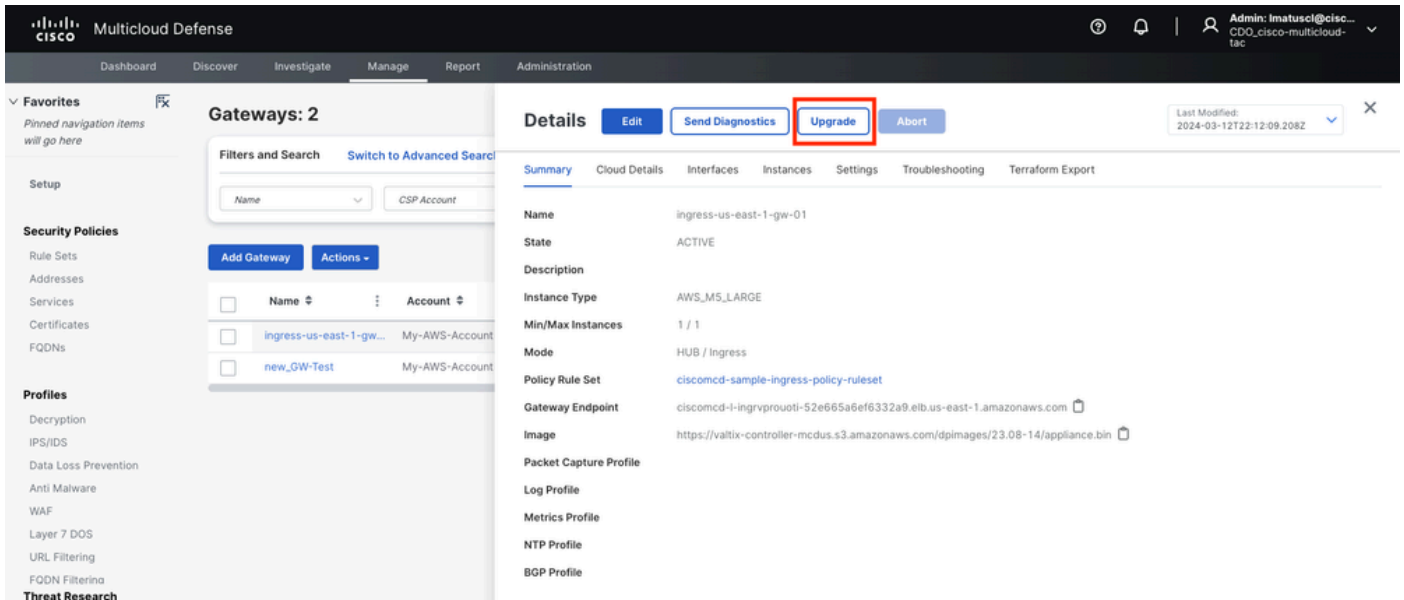


Image 3. You can upgrade the gateway from the details tab.

### 3.b. You can also select Actions > Upgrade.

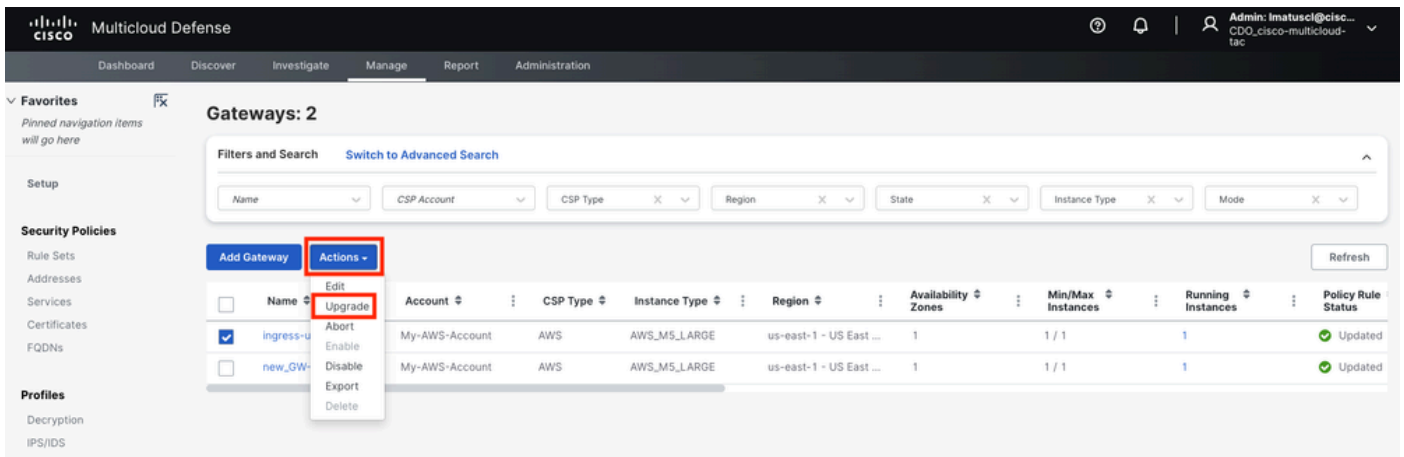


Image 4. You can upgrade the gateway from the Action button.

4. Select the drop down menu in order to display the available gateways versions. Then, select your target version and save the changes.

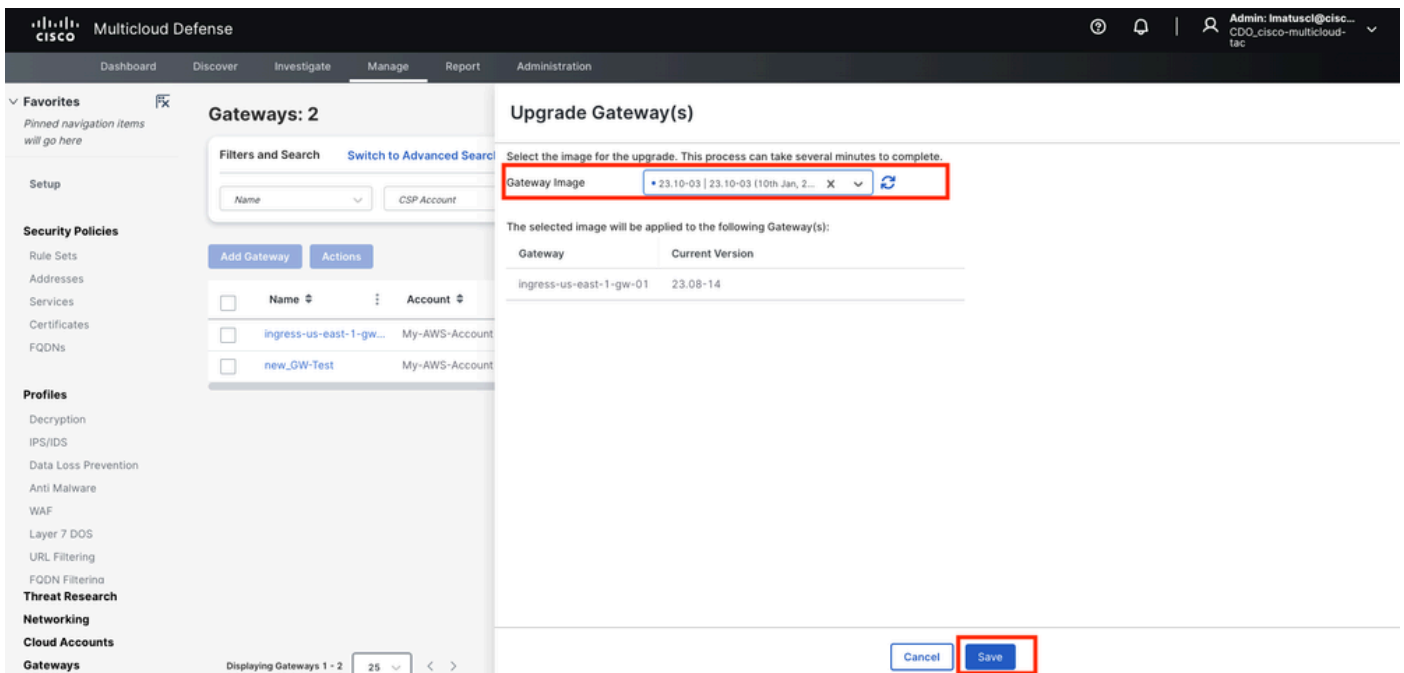


Image 5. Available gateway versions.

Confirm the cloud service provider resource allocation necessary for the upgrade.

6. Select **Yes** if the resource allocation is sufficient. Click **No** if the resource allocation is insufficient, increase the resource allocation in the cloud service provider, and return to continue the upgrade.

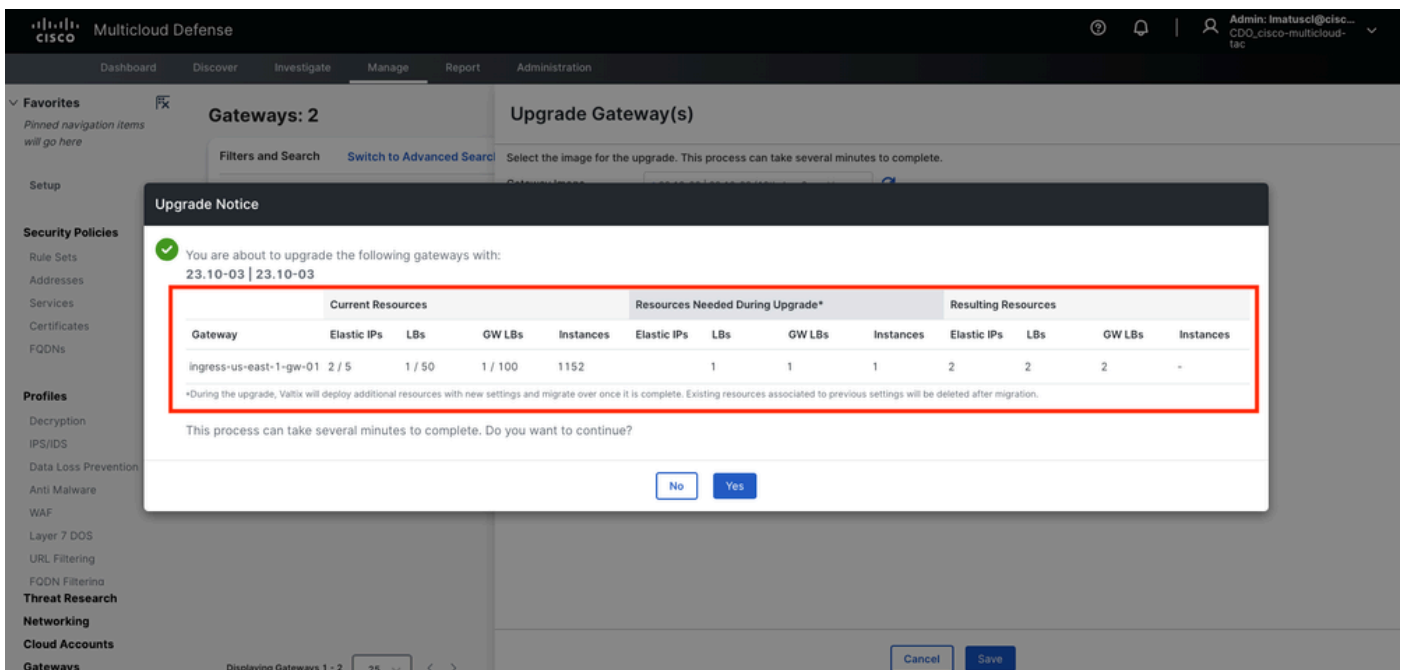


Image 6. Resource allocation in the cloud service provider.

## Verify

### Monitor the upgrade process from the Gateway List.

The process can take several minutes to complete. You can monitor the process from the gateway list page.

Navigate to Manage > Gateways.

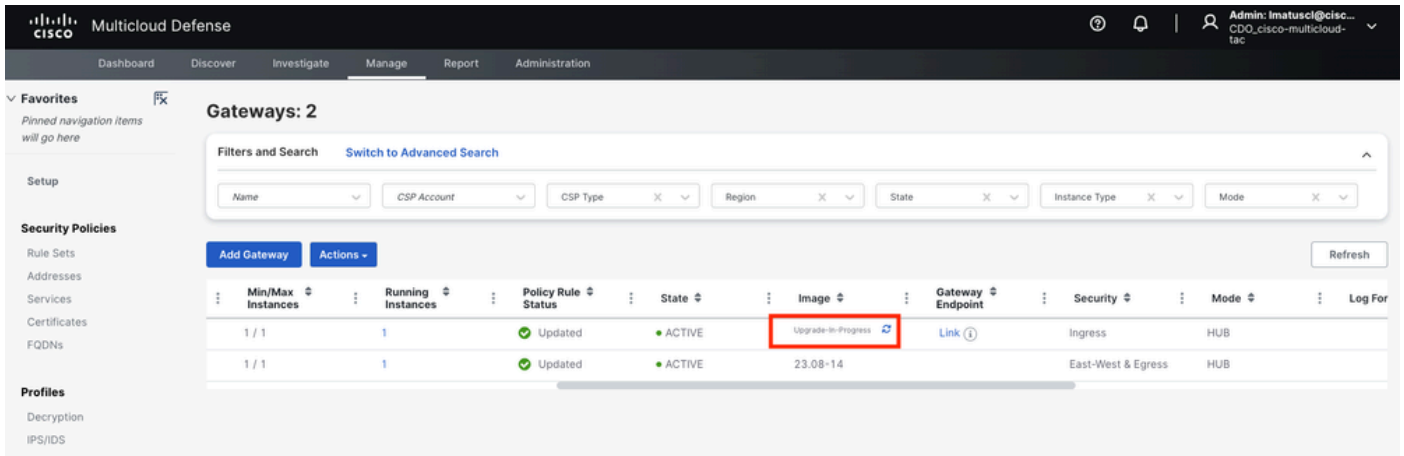


Image 7. Refresh button to monitor the upgrade process.

Once the upgrade process is completed, the gateway displays the new version.

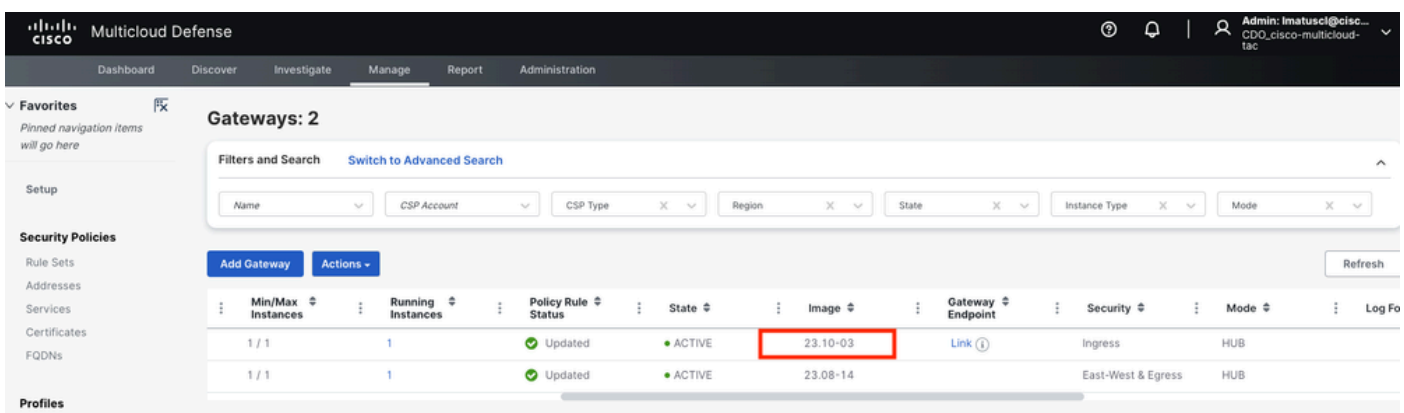


Image 8. Upgrade process completed.

## Monitor the gateway process from the System Logs.

Navigate to Investigate > System Logs.

You can see the date and time the upgrade process initiates and completes.

Select **more** in order to display more information about the system logs.

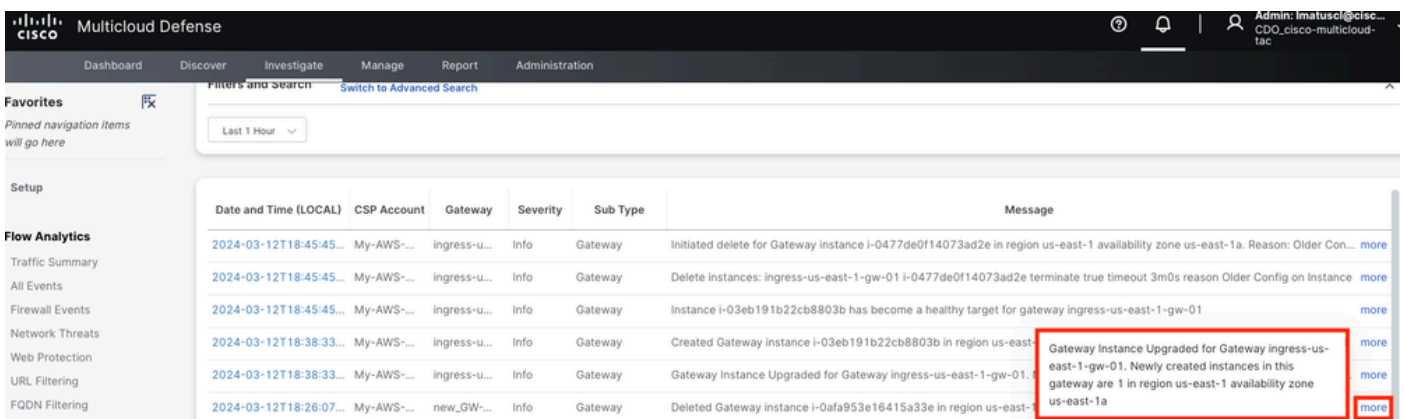


Image 9. System logs.

This picture shows how the System Logs displays the creation of the new gateway instance and the deletion of the old one once the new one is healthy and ready.

2024-03-12T18:48:51...	My-AWS-...	ingress-u...	Info	Gateway	Upgrade to DP Image Version 23.10-03 and CSP image ID ami-03ce47873675045eb is complete	more
2024-03-12T18:48:47...	My-AWS-...	ingress-u...	Info	Gateway	Deleted Gateway instance i-0477de0f14073ad2e in region us-east-1 availability zone us-east-1a	more
2024-03-12T18:45:45...	My-AWS-...	ingress-u...	Info	Gateway	Initiated delete for Gateway instance i-0477de0f14073ad2e in region us-east-1 availability zone us-east-1a. R...	more
2024-03-12T18:45:45...	My-AWS-...	ingress-u...	Info	Gateway	Delete instances: ingress-us-east-1-gw-01 i-0477de0f14073ad2e terminate true timeout 3m0s reason Older ...	more
2024-03-12T18:45:45...	My-AWS-...	ingress-u...	Info	Gateway	Instance i-03eb191b22cb8803b has become a healthy target for gateway ingress-us-east-1-gw-01	more
2024-03-12T18:38:33...	My-AWS-...	ingress-u...	Info	Gateway	Created Gateway instance i-03eb191b22cb8803b in region us-east-1 availability zone us-east-1a. Gateway In...	more
2024-03-12T18:38:33...	My-AWS-...	ingress-u...	Info	Gateway	Gateway Instance Upgraded for Gateway ingress-us-east-1-gw-01. Newly created instances in this gateway ar...	more

Image 10. Creation and deletion of the old and new instance.

This picture shows all the system logs related to the gateway upgrade process.

The screenshot displays the Cisco Multicloud Defense System Logs interface. The main content area shows a table of logs with columns for Date and Time (LOCAL), CSP Account, Gateway, Severity, Sub Type, and Message. Several log entries are highlighted with a red border, showing the sequence of events for a gateway upgrade: deletion of the old instance, initiation of the delete process, deletion of the old instance, the new instance becoming a healthy target, and the final upgrade completion.

Date and Time (LOCAL)	CSP Account	Gateway	Severity	Sub Type	Message
2024-03-12T18:48:51...	My-AWS-...	ingress-u...	Info	Gateway	Upgrade to DP Image Version 23.10-03 and CSP image ID ami-03ce47873675045eb is complete
2024-03-12T18:48:47...	My-AWS-...	ingress-u...	Info	Gateway	Deleted Gateway instance i-0477de0f14073ad2e in region us-east-1 availability zone us-east-1a
2024-03-12T18:45:45...	My-AWS-...	ingress-u...	Info	Gateway	Initiated delete for Gateway instance i-0477de0f14073ad2e in region us-east-1 availability zone us-east-1a. Reason: Older Config on Insta...
2024-03-12T18:45:45...	My-AWS-...	ingress-u...	Info	Gateway	Delete instances: ingress-us-east-1-gw-01 i-0477de0f14073ad2e terminate true timeout 3m0s reason Older Config on Instance
2024-03-12T18:45:45...	My-AWS-...	ingress-u...	Info	Gateway	Instance i-03eb191b22cb8803b has become a healthy target for gateway ingress-us-east-1-gw-01
2024-03-12T18:38:33...	My-AWS-...	ingress-u...	Info	Gateway	Created Gateway instance i-03eb191b22cb8803b in region us-east-1 availability zone us-east-1a. Gateway Instance Upgraded
2024-03-12T18:38:33...	My-AWS-...	ingress-u...	Info	Gateway	Gateway Instance Upgraded for Gateway ingress-us-east-1-gw-01. Newly created instances in this gateway are 1 in region us-east-1 avail...

Image 11. System logs related to the gateway upgrade process.

## Related Information

- [Cisco Multicloud Defense User Guide](#)
- [Technical Support & Documentation - Cisco Systems](#)