Migration Toolkit for Applications 6.2

Release Notes

New features, known issues, and resolved issues
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Abstract

Migration Toolkit for Applications 6.2 accelerates large-scale application modernization efforts across hybrid cloud environments on Red Hat OpenShift. This solution provides insight throughout the adoption process, at both the portfolio and application levels: inventory, assess, analyze, and manage applications for faster migration to OpenShift via the user interface. This document describes new features and improvements, known issues, and resolved issues for the Migration Toolkit for Applications, version 6.2.
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MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see our CTO Chris Wright’s message.
CHAPTER 1. INTRODUCTION

Migration Toolkit for Applications 6.2 accelerates large-scale application modernization efforts across hybrid cloud environments on Red Hat OpenShift. This solution provides insight throughout the adoption process, at both the portfolio and application levels: inventory, assess, analyze, and manage applications for faster migration to OpenShift via the user interface.

These release notes cover all $z$-stream releases of MTA 6.2 with the most recent release listed first.
2.1. RESOLVED ISSUES

The following highlighted issues have been resolved in MTA version 6.2.1.

CVE-2023-44487 HTTP/2: Multiple HTTP/2 enabled web servers are vulnerable to a DDoS attack (Rapid Reset Attack)

A flaw was found in handling multiplexed streams in the HTTP/2 protocol. In previous releases of MTA, the HTTP/2 protocol allowed a denial of service (server resource consumption) because request cancellation could reset multiple streams quickly. The server had to set up and tear down the streams while not hitting any server-side limit for the maximum number of active streams per connection, which resulted in a denial of service due to server resource consumption.

The following issues have been listed under this issue:

- (MTA-I428)
- (MTA-I430)
- (MTA-I448)

To resolve this issue, upgrade to MTA 6.2.1 or later.

For more information, see CVE-2023-44487 (Rapid Reset Attack).

CVE-2023-39325: Multiple HTTP/2 enabled web servers are vulnerable to a DDoS attack (Rapid Reset Attack in the Go language packages)

The HTTP/2 protocol is susceptible to a denial of service attack because request cancellation can reset multiple streams quickly. The server has to set up and tear down the streams while not hitting any server-side limit for the maximum number of active streams per connection. This results in a denial of service due to server resource consumption.

The following issues have been listed under this issue:

- MTA-I429
- MTA-I482
- MTA-I447

To resolve this issue, upgrade to MTA 6.2.1 or later.

For more information, see CVE-2023-39325 (Rapid Reset Attack in the Go language packages).
CHAPTER 3. MTA 6.2.0

3.1. NEW FEATURES

This section describes the new features of the Migration Toolkit for Applications (MTA) 6.2.0.

Integration with JIRA

The integration of Migration Toolkit for Applications with Jira allows you to track and manage the whole migration process. To introduce changes to the applications in the portfolio, you can create issues in Jira and assign them to developers.

For more information, see Creating and configuring a Jira connection.

Migration Waves management

A migration wave is a small collection of workloads that deliver business value. MTA’s Migration Wave groups applications to be migrated on a specified schedule.

In addition, a migration wave enables you to export a list of the wave’s applications to the Jira issue management system. This automatically creates a separate Jira issue for each application of the migration wave for tracking.

For more information, see Creating migration waves and Creating Jira issues for a migration wave.

OpenShift Monitoring integration

MTA integrates with OpenShift Monitoring, which allows users to consume metrics from their MTA installation.

3.2. KNOWN ISSUES

MTA version 6.2.0 has the following issues.

CVE-2023-44487: Multiple HTTP/2 enabled web servers are vulnerable to a DDoS attack (Rapid Reset Attack)

A flaw has been found in handling multiplexed streams in the HTTP/2 protocol. The HTTP/2 protocol allows a denial of service (server resource consumption) because request cancellation can be reset multiple streams quickly. The server has to set up and tear down the streams while not hitting any server-side limit for the maximum number of active streams per connection, which resulted in a denial of service due to server resource consumption.

The following issues have been listed under this issue:

- (MTA-1428)
- (MTA-1430)
- (MTA-1448)

To resolve this issue, upgrade to MTA 6.2.1 or later.

For more details, see CVE-2023-44487 (Rapid Reset Attack)

CVE-2023-39325: Multiple HTTP/2 enabled web servers are vulnerable to a DDoS attack (Rapid Reset Attack in the Go language packages)
The HTTP/2 protocol is susceptible to a denial of service attack because request cancellation can reset multiple streams quickly. The server has to set up and tear down the streams while not hitting any server-side limit for the maximum number of active streams per connection. This results in a denial of service due to server resource consumption.

The following issues have been listed under this issue:

- MTA-1429
- MTA-1482
- MTA-1447

To resolve this issue, upgrade to MTA 6.2.1 or later.

For more information, see CVE-2023-39325 (Rapid Reset Attack in the Go language packages).

Re-enabling Keycloak breaks MTA

Keycloak is enabled by default. If you disable and then re-enable Keycloak, you cannot perform any actions in the MTA web console after logging in again.

This error is caused as the credential-mta-rhssos secret is updated when auth/Keycloak is disabled and re-enabled.

The suggested workaround is to restore the old password in the credential-mta-rhssos secret, after re-enabling auth. MTA-1152

Analysis fails when fetching rules from a repository with a folder that contains spaces in its name

When fetching custom rules from a repository during an analysis, if the Root path field contains spaces, the mta-cli command is not properly composed and the analysis fails. MTA-458

Update notifications are disabled for Application, Job functions, and Business services

Update notifications are disabled for Application, Job function and Business services, as a result, no notifications are displayed. MTA-1024

Repository type field is not required

The Repository type field is not required when saving the configuring rules files from a repository in analysis. MTA-1047

False 'not connected' status for new Jira instance

When creating a new Jira instance, the connection status is initially shown as Not connected before it moves to Connected, and this delay could cause the user to think that the provided credentials are incorrect. MTA-1019

For a complete list of all known issues in this release, see the list of Known Issues in Jira.

3.3. RESOLVED ISSUES

The following highlighted issues have been resolved in MTA version 6.2.0.

Analysis wizard
The release of MTA 6.2.0 resolves the issue that Analysis wizard was stuck on the custom rules page on moving Back from the Repository tab. For more information on this issue, see MTA-464.

Tags & Reports tabs

The release of MTA 6.2.0 resolves the issue that an analysis was running for an application, and after clicking on that application to see the Tags and Reports, both the tabs keep loading until the analysis finished. For more information on this issue, see MTA-465.

For a complete list of all issues resolved in this release, see the list of Resolved Issues in Jira.