

Release notes for Cloudera Migration Assistant

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Cloudera Migration Assistant 4.1.1

Release notes for Cloudera Migration Assistant 4.1.1 on Cloudera on premises.

This section documents fixes and enhancements for the 4.1.1 maintenance release. For the initial 4.1.0 general availability content, see the release notes topics that follow this section in the table of contents.

What's new in Cloudera Migration Assistant 4.1.1

Cloudera Migration Assistant 4.1.1 is a maintenance release for Cloudera on premises that adds CMA Agent on Cloud deployment and security improvements.

CMA Agent on Cloud

On Cloudera on cloud Data Lake and Data Hub clusters, deploy **CMA Agent on Cloud** through Cloudera Manager with control plane credentials configured on the agent service.

Security

This release upgrades dependencies to address CVE findings, rate-limits the OAuth2 token endpoint, and adds standard HTTP security headers for the CMA and gateway.

Fixed issues in Cloudera Migration Assistant 4.1.1

Selected issues resolved in Cloudera Migration Assistant 4.1.1.

Cloudera Migration Assistant 4.1.1

CMA-4453: Rate limiting on Auth Server OAuth2 token endpoint

4.1.1

The OAuth2 token endpoint did not limit request rates, which could allow denial-of-service against authentication. The gateway now rate-limits this endpoint.

CMA-4455: Security response headers (CSP, HSTS, X-Frame-Options)

4.1.1

This release adds standard browser security headers for the CMA and gateway.

CMA-4448: Dependency version lift for Spring Boot 4.0.7 (CVE)

4.1.1

Third-party library versions were upgraded to address critical and high severity vulnerabilities reported in security scans, including Jackson, Netty, PostgreSQL JDBC, and Bouncy Castle components.

What's new

Cloudera Migration Assistant 4.1 adds user and agent connection management, LDAP and Knox authentication integration, and platform updates for CDP Private Cloud Base migrations.

For defect lists, removals, and behavior changes, see *Fixed issues*, *Deprecations*, and *Behavioral changes*.

Cloudera Migration Assistant 4.1.0

User connection management

Users create **User Connections** on registered clusters to store Git and workload credentials in Vault. Scans and migrations resolve credentials for the signed-in user without embedding passwords in configuration files. See *Managing user connections*.

Agent connection management

Cloudera Manager and control plane endpoint connections are managed separately from cluster registration. New clusters registered through the CMA Agent receive the appropriate connection automatically. After upgrading from an earlier release, an administrator creates agent connections on the **Connections** page for clusters that were registered before 4.1.

Supported platforms

Release 4.1 continues CDP Private Cloud Base to CDP Private Cloud Base migrations, including HDFS to Ozone on supported clusters. See *Supported platforms and migration paths* for path and version requirements.

LDAP and Knox authentication

The Auth Server integrates with LDAP and discovers Knox SSO URLs for supported deployment patterns, including improved bootstrap behavior on secured clusters.

Related Information

[Fixed issues](#)

[Deprecations](#)

[Behavioral changes](#)

Deprecation notices in Cloudera Migration Assistant

Deprecation notices for Cloudera Migration Assistant 4.1.0.

Cloudera Migration Assistant 4.1.0

CDP Public Cloud as a migration target

Using a CDP Public Cloud data platform as the migration **target** is not supported in 4.1.0. CDP Private Cloud Base to CDP Private Cloud Base paths remain supported.

Behavioral changes in Cloudera Migration Assistant

Behavioral changes denote a marked change in behavior between Cloudera Migration Assistant releases. This topic covers 4.1.0.

Cloudera Migration Assistant 4.1.0

Summary: User-scoped connections for Git and workloads

Previous behavior:

Cluster and migration credentials were configured primarily through administrator settings and agent configuration, not per user in the UI.

New behavior:

Users create **User Connections** on eligible clusters. Scans and migrations resolve credentials for the active user from Vault-backed connection records. See *Managing user connections*.

Summary: Agent connections for Cloudera Manager and control plane endpoints

Previous behavior:

Agent credentials for Cloudera Manager and related control plane endpoints were tied to cluster registration or agent configuration files.

New behavior:

Administrators manage agent connections on the **Connections** page. Clusters registered in 4.1 receive connections automatically; upgraded deployments require manual connection setup for clusters registered before 4.1. See *What's new* and *Registering clusters*.

Related Information

[Deprecations](#)

Fixed issues

Review selected Cloudera Migration Assistant issues resolved in 4.1.0 for this release.

Cloudera Migration Assistant 4.1.0

CMA-4482: Spark migration failure caused by missing runAirflow build tool

4.1.0

The code-migration build agent could call a runAirflow tool that was not implemented, which failed Spark migrations. The agent prompt no longer references that tool.

CMA-4381: External agent gRPC connection drops silently after idle period

4.1.0

After a long idle period, an external CMA Agent could lose its gRPC session to the CMA Master without a clear error. Connection handling was improved so idle sessions are detected and re-established.

CMA-4380: Unable to find transition config

4.1.0

Startup could fail when the transition configuration directory was missing from the deployment layout. The server now falls back to transition definitions on the classpath when the directory is absent.

CMA-4251: Execution Details Collections empty for CDE-to-Git plans

4.1.0

After you created a new version of a Cloudera Data Engineering-to-Git plan, the Execution Details Collections view could stay empty because plan label metadata was not copied to the new version. Label versions are now copied when a plan version is created.

CMA-4147: Migration Plan Title cannot be cleared

4.1.0

After you set a migration plan title, the UI did not let you clear the field back to empty. You can now remove the title when you need to reset it.

CMA-4095: Git scan doesn't work with enterprise github

4.1.0

Git scans against some GitHub Enterprise Server instances failed because repository URLs and API endpoints were not resolved correctly. Scanning now supports common enterprise GitHub deployment patterns.

CMA-4090: Git scan failed with NoSuchFieldError: SNAKE_CASE

4.1.0

Git scans could fail with a NoSuchFieldError for SNAKE_CASE because of an incompatible Jackson dependency on the agent classpath. Dependency alignment was corrected so Git scanning completes successfully.

CMA-3980: Migration unexpectedly creates build files in the git repo root

4.1.0

Some code migrations wrote build artifacts at the root of the target Git repository instead of under the expected project directories. Output paths were corrected so build files land in the intended locations.

CMA-3979: Git push does not happen until the last iteration is completed

4.1.0

During iterative Git migrations, changes were not pushed to the remote repository until the final iteration finished, which delayed verification on the target. Push timing was adjusted so intermediate results are available when appropriate.

Known issues

Review open issues in Cloudera Migration Assistant that may affect your deployment or migration workflows.

Known issues are grouped by the release in which they were first identified. Issues listed under 4.0.0 also affect 4.1.0 unless they are resolved in a later maintenance release.

Known issues identified in Cloudera Migration Assistant 4.0.0**CMA-4369: Ozone files missing after rescan**

4.0.0, 4.1.0

After the final scan of a migration execution, migrated files may not appear in the scan results. Folders are visible, but files are not.

Rescan Ozone on the target cluster.

CMA-4108: Example feature flag not removed from production build

4.0.0, 4.1.0

The example-feature-flag toggle remains visible in Settings > Feature Flags in production builds.

Do not enable example-feature-flag in production deployments.

CMA-4109: Ozone Layout Structure templates are placeholder or demo only

4.0.0, 4.1.0

Built-in Ozone layout structure templates in the Storage Editor are placeholders and are not intended for production use.

Do not use the built-in Ozone Layout Structure templates in production. Create custom YAML layouts manually instead.

CMA-4343: Ozone Layout Provisioning (Technical Preview) limitations

4.0.0, 4.1.0

- CMA does not validate layout definitions for volumes, buckets, or quotas.

- CMA does not verify whether the specified settings are feasible on the target cluster.
- Ozone Layout Provisioning has not been tested as part of the end-to-end migration workflow.

Use this feature for evaluation purposes only. Verify layout definitions manually before deploying. Do not rely on this feature in production migration workflows.

CMA-4120: Feature Flags: 500 error banner not cleared after successful configuration update

4.0.0, 4.1.0

On Settings > Feature Flags, a 500 Internal Server Error banner can remain visible after a later configuration update succeeds.

None

CMA-4121: Feature Flags: viewer role can toggle flags; 403 does not revert toggle state; scope filter not working

4.0.0, 4.1.0

Users with the viewer role can interact with feature-flag toggles. Failed updates can leave toggles in the wrong state, and the scope filter does not work as expected.

Restrict access to the Feature Flags page to admin users only. Do not rely on the UI to enforce viewer-role permissions.

CMA-4123: Agent /api/agent/config endpoint is unauthenticated; agent /api/ uses HTTP Basic auth**

4.0.0, 4.1.0

The Cloudera Migration Assistant Agent exposes GET /api/agent/config without authentication, returning bootstrap details such as the auth server URI and gRPC endpoint. Other /api/** endpoints use HTTP Basic authentication.

Restrict network access to the Cloudera Migration Assistant Agent API. Enforce the TLS (ssl) profile on non-isolated deployments. Treat /api/agent/config as bootstrap-only infrastructure.

CMA-4126: Agent UI Settings and Admin menu items do not work

4.0.0, 4.1.0

On the Cloudera Migration Assistant Agent web UI, Settings and Admin menu items fail, show a blank page, or have no effect.

None

CMA-4128: Plan page View Documentation link does not work

4.0.0, 4.1.0

The View Documentation control on the Plan page fails, shows an error, or navigates to a blank page.

None

CMA-4130: Plan page Execution tab plan filter shows invalid data

4.0.0, 4.1.0

On the Plan page Execution tab, the plan filter dropdown shows invalid or unexpected values that do not match available plans.

None

CMA-4134: Ozone browser navigates to parent when switching from Review tab back to Data tab

4.0.0, 4.1.0

When the Ozone browser is navigated to a specific path on the Data tab, switching to Review and back returns the browser to the parent path instead of the previous location.

After you switch back to the Data tab, re-navigate to the Ozone path you need.

CMA-4135: Collections item count includes parent folders, not just mapped items

4.0.0, 4.1.0

The Collections view item count includes parent folders in the hierarchy, not only explicitly mapped items, which can inflate counts.

None

CMA-4139: Typos present in Settings > Cloudera Replication Manager App Access Settings tab

4.0.0, 4.1.0

The Settings > Cloudera Replication Manager App Access Settings tab contains typographical errors in user-facing text.

None. The typos appear in user-facing labels only and do not affect functionality.

CMA-4144: HDFS scan does not support running under a custom user

4.0.0, 4.1.0

There is no supported way to configure the Cloudera Migration Assistant Agent to run an HDFS scan as a specific Unix user. You can set `CMA_MIGRATE_WITH_USER_OF_SERVICE` to use a Cloudera Manager service identity (process user or Kerberos principal), but not an arbitrary username. Scans run as the agent service account by default and may miss directories owned by other users.

Ensure the Cloudera Migration Assistant Agent service account has read permissions on all HDFS directories you want to scan. Scans run as the agent service account and may miss directories owned by other users.

CMA-4145: HDFS discovery Info column is too wide

4.0.0, 4.1.0

On the HDFS scan Discovery tab, the Info column is wider than needed for its two action buttons.

None. The column width does not affect HDFS discovery results or scan behavior.

CMA-4146: Selected columns are not preserved across HDFS scan result navigation

4.0.0, 4.1.0

Custom column selections on the HDFS scan Discovery tab reset to defaults when you navigate to another directory.

Re-select your custom columns after you navigate to a new directory or page.

CMA-4148: Assign button has no tooltip

4.0.0, 4.1.0

On the Plan Collections tab, the Assign button lacks a tooltip while adjacent Info and Scan buttons show tooltips.

None. The Assign button works as expected; only the tooltip is missing.

CMA-4149: Plan Collections tab does not visually separate bulk actions from selection-independent actions

4.0.0, 4.1.0

On the Plan Collections tab, bulk actions such as Assign are not visually distinguished from always-available actions such as Info and Scan.

Select items before you click Assign. The layout does not affect how the buttons work.

CMA-4150: Metadata tab shown for plans that have no Hive entries in collections

4.0.0, 4.1.0

The Metadata tab appears on migration plans that contain only HDFS paths and no Hive databases or tables, which can be confusing.

You can ignore the Metadata tab on HDFS-only plans. It does not contain Hive metadata for those plans.

CMA-4164: HDFS scan silently skips the HBase directory; not documented

4.0.0, 4.1.0

HDFS scans skip the /hbase directory without surfacing a warning in the UI or documentation.

Account for the skipped /hbase path when planning HDFS discovery and migration scope.

CMA-4176: Permission-denied failures in HDFS-to-Ozone migration show no actionable error message

4.0.0, 4.1.0

HDFS-to-Ozone migrations that fail because of filesystem permission errors (for example source files owned by root:root with mode 600) do not show a clear, actionable error in the UI.

Check source file permissions before migration. Adjust permissions or ACLs on files owned by root:root with mode 600 so the replication user can access them.

CMA-4185: CSD AutoTLS integration does not auto-enable TLS on secured clusters

4.0.0, 4.1.0

On Kerberized clusters with AutoTLS enabled, deploying Cloudera Migration Assistant through a parcel may not enable TLS automatically. You may need to set `ssl_enabled` and `keystore` properties manually in Cloudera Manager. The Gateway default HTTP port 8090 can conflict with YARN ResourceManager.

In Cloudera Manager, set `ssl_enabled` to true and configure keystore location and password for each role. If the Gateway fails with port 8090 in use, change `cma_gateway_server_http_port` (for example to 8092).

CMA-4212: Progress bar in code editor is misaligned and partially outside the editor area

4.0.0, 4.1.0

When editing large Airflow DAG files in the code editor, the progress bar is misaligned and can render outside the editor with inconsistent styling.

None

CMA-4213: Plan creation is allowed before source and target clusters have been scanned

4.0.0, 4.1.0

Cloudera Migration Assistant allows creating a migration plan before source and target cluster scans finish, which can lead to incomplete plan data.

Wait until cluster scans complete before creating a migration plan.

CMA-4214: Cloudera Data Engineering: mapped GitHubFile entries remain visible in UI after plan deletion

4.0.0, 4.1.0

After deleting a Cloudera Data Engineering migration plan, mapped GitHubFile entries can remain in the database and UI with `mappingStatus=MAPPED`.

None

CMA-4215: Storage Editor shows incorrect DS Quota value in table view after YAML import

4.0.0, 4.1.0

After importing a YAML layout in the Storage Editor, the table view can show an incorrect DS Quota value while the edit drawer shows the correct value.

Open the edit drawer for a volume or bucket to verify the DS Quota value. The table view can show an incorrect number after YAML import.

CMA-4216: Storage Editor skips folders on YAML import — only last bucket gets root folders

4.0.0, 4.1.0

YAML import in the Storage Editor may import root folders and subfolders for only the last bucket in the file, skipping folders for other buckets.

Import YAML files one bucket at a time, or manually add folders for every bucket except the last one after import.

CMA-4218: Storage Editor Import shows "[object Object]" instead of a readable validation error

4.0.0, 4.1.0

When YAML import validation fails (for example a type mismatch), the Import Structure dialog shows [object Object] instead of a readable error message.

None

CMA-4225: Replication policy submission fails if source cluster was renamed

4.0.0, 4.1.0

Cloudera Replication Manager policy submission can fail with HTTP 500 when the source cluster was renamed after registration.

Do not rename source clusters in Cloudera Manager after you register them in Cloudera Migration Assistant. If a cluster was renamed, re-register it with its current name.

CMA-4226: Cloudera Data Engineering Airflow Scan/Plan/Migration has schema inconsistencies

4.0.0, 4.1.0

The data model for Cloudera Data Engineering Airflow scan, plan, and migration workflows has schema inconsistencies that can affect mapping and execution behavior.

None

CMA-4227: Cloudera Data Engineering execution includes all plan mappings instead of only selected collection

4.0.0, 4.1.0

When you run a Cloudera Data Engineering-to-Git execution and select one collection, the execution can include all mapped DAGs from the plan instead of only the selected collection.

Keep all mapped DAGs in a single collection if you intend to run a selective execution. Executions can include mappings from other collections.

CMA-4230: Dead URL after session expiry

4.0.0, 4.1.0

After session expiry, the login page can redirect to a URL that does not reopen the Cloudera Migration Assistant Master UI, leaving a blank page until you navigate manually.

After re-authenticating, open the correct Cloudera Migration Assistant Master UI URL directly in the browser.