

Release notes for Cloudera Migration Assistant

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What's new

Cloudera Migration Assistant 4.0 adds major capabilities across Ozone migration, Airflow DAG migration, the CMA Master-Agent model, migration plans and executions, and the web UI, together with numerous bug fixes and a small set of removals and behavior changes.

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

HDFS to Ozone migration

Ozone support is significantly enhanced, including the ability to migrate from HDFS to Ozone through Cloudera Replication Manager integration. Scanning discovers volumes, buckets, keys, and snapshot metadata across Ozone. The UI supports mapping and migrating files, collection support for Ozone locations, and detailed display of Ozone bucket and volume attributes.

Ozone Layout Provisioning (technical preview)

CMA can define and deploy Ozone storage layouts (volumes, buckets, and quotas) from the **Storage Layout Editor**. This workflow is a technical preview and is not ready for production use.

Airflow DAG migration (technical preview)

This release introduces migration of workloads from Cloudera Data Engineering to Cloudera Workflow Orchestrator by automating movement of Airflow DAGs into version-controlled Git repositories. The CMA Agent scans virtual clusters to find Airflow DAGs and their resource pools, organizes them into collections, and maps them to the target repository. An integrated diff editor resolves duplicate DAG IDs and updates environment-specific variables before assets are migrated securely into the target repository without changing the source environment. This workflow is a technical preview and is not ready for production use.

Master-agent architecture

Deployment and security updates introduce the CMA Master-Agent pattern. Agent-based cluster discovery replaces manual UI-based registration. CMA Agents automatically locate their cluster through Cloudera Manager and register with the CMA Master over gRPC. Security enhancements include configurable user and principal in CSDs for agent authentication, use of the Agent's own Kerberos keytab for scanners, and Vault support for CMA Master credential storage.

Migration plans and executions

Cloudera Migration Assistant 4.0 substantially evolves how migrations are modeled and run. Migration plans and executions are separate: plans are versioned and can be run multiple times. Versioned plan collections group datasets and workloads with full history. Versioning extends to structure mappings, workflow configuration, and Hive SQL transformations. Structure mappings are created automatically when items are added to a plan, including Hive, Spark, and Hive SQL. The release also introduces underlying support for incremental migration.

Ranger policy discovery (technical preview)

Scan Ranger policies (access, masking, row-filter) from source clusters. Browse policies in the Discovery browser grouped by Ranger service. Policy indicators on HDFS and Hive resources show authorization coverage. Organize policies into collections for migration planning.

Database support

PostgreSQL support for production deployments (CMA Master, Auth Server, and CMA Agent), with an automated setup script for database provisioning.

UI improvements

Workload visibility is improved in the split view used for mapping. You can create folders on the target side directly in the UI. The execution view adds a plan filter; the Scan UI is revamped; the Cluster Services tab introduces a table view. The plan view displays source and target cluster services and versions, scanning settings are easier to use, and manual cluster creation is hidden in production mode.

Related Information

[Fixed issues](#)

[Deprecations](#)

[Behavioral changes](#)

Deprecation notices in Cloudera Migration Assistant 4.0

Deprecation notices in Cloudera Migration Assistant 4.0 describe removed features and functional changes so you can adjust migration plans and deployment expectations accordingly.

Removed

Public cloud migration

Public cloud migration capabilities are removed in this release.

Express Migration

Express Migration is removed. Use the standard plan-based migration flow instead.

Air-gapped deployment mode

Air-gapped deployment mode is no longer supported in this release.

Behavioral changes in Cloudera Migration Assistant 4.0

Behavioral changes denote a marked change in behavior from the previously released version to this version of Cloudera Migration Assistant. This release separates versioned migration plans from executions, aligns the product experience with that model, and ends support for certain deployment paths.

Cloudera Migration Assistant 4.0.0

Summary: Migration plans and executions are distinct

Previous behavior:

Migrations were modeled in ways that did not consistently separate the migration plan from individual runs of that work.

New behavior:

Migration plans and executions are separate concepts. Plans are versioned and can be run multiple times.

Summary: Express Migration workflow replaced by plan-based migration

Previous behavior:

You could follow an Express Migration path alongside other migration flows.

New behavior:

You must use the standard plan-based migration flow. For removal details, see *Deprecations*.

Summary: Public cloud migration removed

Previous behavior:

Public cloud migration paths were available in prior releases.

New behavior:

Public cloud migration support is removed in this release. It will be reintroduced in a future release with the new architecture.

Summary: Air-gapped deployment mode removed**Previous behavior:**

Air-gapped deployment mode was supported for restricted networks.

New behavior:

Air-gapped deployment mode is no longer supported.

Related Information

[Deprecations](#)

Fixed issues

Review highlighted Cloudera Migration Assistant issues resolved in 4.0.0 for this release.

Cloudera Migration Assistant 4.0.0**AMCM-3563: appendLogContents throws lock timeout exception at large HDFS scan**

4.0.0

During very large HDFS scans, the server called appendLogContents faster than work could finish, which triggered database lock timeouts. The change paces that work so log upload no longer contends on the same lock during heavy scans.

AMCM-3836: HDFS scan performance issue when FS_LOCATION table is full

4.0.0

When the FS_LOCATION table grew very large, HDFS scans slowed sharply because the server did expensive work against that table. The fix reduces that cost so scan progress stays usable on busy clusters.

AMCM-3844: Hdfs items in plan are loading slowly with numerous paths in other plans

4.0.0

Opening the tree for an HDFS source in one plan could spend seconds per level if other plans contained thousands of stored paths. The UI query path was tightened so tree navigation stays responsive even when many paths exist elsewhere.

AMCM-3825: Lock remains on the FS_LOCATION table

4.0.0

Concurrent updates against FS_LOCATION (for example clearing snapshot flags) could wait until the statement timed out while locking FS_LOCATION. Lock handling and transaction scope were adjusted so those updates complete reliably.

AMCM-3433: Hive Scanning with Kerberos failure

4.0.0

Hive scans failed under Kerberos with JDBC handshake errors (GSS initiate failed) because the driver URI and principal wiring did not match how the CMA Agent authenticates. The agent now builds the Hive JDBC connection so Kerberos negotiation succeeds.

AMCM-3583: HDFS2HDFS B2B Migration fails at Cloudera Replication Manager policy submit with Missing destination path

4.0.0

Base-to-base HDFS migrations could fail when submitting the Cloudera Replication Manager policy with HTTP 400 and a missing destination path in the create-policy response. Policy generation now supplies the destination layout Cloudera Replication Manager expects so submission succeeds.

AMCM-3367: SQL Workload Scan Fails with in M-A Mode unable to SSH

4.0.0

In Master-Agent mode, SQL workload preparation still tried to SSH from the CMA Agent host even when SSH was not available or permitted. The flow was corrected to use in-process and supported execution paths so you are not blocked by SSH reachability for those scans.

AMCM-3376: .sql is not Migrated at SQL Workload Migration

4.0.0

SQL workload migration picked up table metadata but left the selected .sql artifact behind on the source, so the migration dashboard could not show the file as moved or ready to remap. The pipeline now treats the script like other workload assets so it appears on the target side for review and mapping.

AMCM-3391: --vault arg not working with distributed mode and ssl

4.0.0

Vault integration with TLS in distributed deployments did not propagate SSL settings correctly when Vault was enabled, so Vault looked active while SSL stayed off. Argument parsing, environment handoff, and tests were fixed so Vault and SSL settings reflect the configured deployment mode.

AMCM-3452: Ozone scan can't be canceled when the ozone server isn't responding

4.0.0

Java Ozone scans could hang retrying a dead or overloaded Ozone endpoint, and cancel commands (UI or /api/clusters/{clusterId}/commands/cancel) did not unwind the work. Cancellation now tears down the stuck client path and related sync so you can stop a runaway scan without waiting for a long RPC timeout.

AMCM-3552: No way to change HDFS Java scan user

4.0.0

HDFS Java scans always ran as the Cloudera Migration Assistant Agent service account. You can now configure which Cloudera Manager service's process user or Kerberos principal is used for scans by setting the CMA_MIGRATE_WITH_USER_OF_SERVICE environment variable (for example, HDFS to scan as the HDFS service user). This does not allow specifying an arbitrary Unix username.

AMCM-3694: Scan doesn't delete children if no child remained in the parent

4.0.0

After incremental scans removed the last child under a parent, stale child rows could remain in Cloudera Migration Assistant metadata. Cleanup now removes those orphans so the catalog matches what is actually on the cluster.

AMCM-4111: Access token may exceed header size limits on clusters with many groups

4.0.0

Access tokens embedded full role and policy objects, producing oversized Authorization headers and HTTP 431 errors on clusters with many groups. Tokens now carry role names and a version counter; servers resolve full roles through a versioned role catalogue cache.

AMCM-4114: Browser column selector icon not fully visible in some layouts

4.0.0

The column selector icon in data browsers could be clipped or partially hidden in some layout configurations. Layout and icon placement were adjusted so the control remains fully visible.

AMCM-4119: Ozone/HDFS scan type selection UI element is misaligned

4.0.0

The scan type selector for Ozone and HDFS scans was misaligned in the scan configuration UI. Alignment and spacing were corrected.

AMCM-4131: Execution Step Settings drawer layout is broken

4.0.0

Command text in the Execution Step Settings drawer could overflow and break the drawer layout. Overflow handling and layout constraints were fixed so long command text displays correctly.

AMCM-4133: Execution page Review Settings panel fails to load

4.0.0

The Review Settings panel on the Execution page could fail to load or render. The underlying API and UI wiring were corrected so the panel loads reliably.

AMCM-4147: Migration Plan title field cannot be cleared once set

4.0.0

After setting a migration plan title, you could not clear the field to remove the title. The form now allows clearing the title value.

AMCM-4162: Discovery page triggers duplicate services API call when selecting a collection

4.0.0

Selecting a collection on the Discovery page triggered duplicate services API requests. The services list query was deduplicated so selection performs a single fetch.

AMCM-4170: Triggered By field overflows its container in the Cloudera Data Engineering info panel

4.0.0

In the Cloudera Data Engineering info panel, the Triggered By field could overflow its fixed-height container. Layout constraints were adjusted so long values wrap or truncate correctly.

AMCM-4209: Delete Copied Item button non-functional on Git target side in Cloudera Data Engineering Airflow Metadata tab

4.0.0

On the Git target side of the Cloudera Data Engineering Airflow Metadata tab, Delete Copied Item did not remove mapped entries. The delete action now calls the correct endpoint and updates the UI.

AMCM-4220: Commands list does not refresh automatically when new commands start while the page is open

4.0.0

The Commands list did not update when new commands started while you kept the page open. The UI now refreshes the list when new command activity is detected.

AMCM-4222: Cloudera Replication Manager App credential suggestion shows masked password value instead of the usable credential

4.0.0

Credential suggestions for the Cloudera Replication Manager App showed a masked password placeholder instead of the value you could use. Suggestions now surface the usable credential reference.

AMCM-4229: HDFS to Ozone same-cluster migration fails

4.0.0

Same-cluster HDFS-to-Ozone migrations could generate Hive ALTER TABLE ... SET LOCATION SQL that still pointed at HDFS paths after files were moved to Ozone. Generated SQL now uses the correct Ozone locations, including for partitioned tables.

Known issues

Review open issues in Cloudera Migration Assistant 4.0.0 that may affect your deployment or migration workflows.

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

4.0.0

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.

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

4.0.0

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

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

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

4.0.0

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

- 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.

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

4.0.0

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

None

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

4.0.0

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.

AMCM-4123: Agent /api/agent/config endpoint is unauthenticated; agent /api/ uses HTTP Basic auth**
4.0.0

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.

AMCM-4126: Agent UI Settings and Admin menu items do not work
4.0.0

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

None

AMCM-4128: Plan page View Documentation link does not work
4.0.0

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

None

AMCM-4130: Plan page Execution tab plan filter shows invalid data
4.0.0

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

None

AMCM-4134: Ozone browser navigates to parent when switching from Review tab back to Data tab
4.0.0

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.

AMCM-4135: Collections item count includes parent folders, not just mapped items
4.0.0

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

None

AMCM-4139: Typos present in Settings > Cloudera Replication Manager App Access Settings tab
4.0.0

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.

AMCM-4144: HDFS scan does not support running under a custom user
4.0.0

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.

AMCM-4145: HDFS discovery Info column is too wide

4.0.0

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.

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

4.0.0

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.

AMCM-4148: Assign button has no tooltip

4.0.0

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.

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

4.0.0

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.

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

4.0.0

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.

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

4.0.0

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.

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

4.0.0

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.

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

4.0.0

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).

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

4.0.0

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

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

4.0.0

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.

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

4.0.0

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

None

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

4.0.0

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.

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

4.0.0

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.

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

4.0.0

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

None

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

4.0.0

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.

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

4.0.0

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

None

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

4.0.0

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.

AMCM-4230: Dead URL after session expiry

4.0.0

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.