



**Rubrik CDM
Release Notes
Version 7.0
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rubrik®

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Introduction

These release notes contain supplemental information about the General Availability release of Rubrik CDM version 7.0.

New features

Rubrik CDM version 7.0 has new features.

| Feature | Description |
|---|--|
| Rubrik Edge to Rubrik Edge replication support | Rubrik Edge nodes with 30 TB capacities are now valid Rubrik Edge replication targets. Rubrik Edge nodes with other capacities cannot be specified as Rubrik Edge replication targets. |
| Selective Throttling | Replication throttling can be overridden on a specific network relationship. For example, when replication network traffic is throttled on a cluster, outgoing traffic from that cluster to all replication traffic is throttled. This feature enables throttle overrides for specific replication targets. |
| Improved onboarding | Streamlined the workflow to register and set up a new Rubrik cluster setup with Polaris. |
| SDFS BRIK awareness | Third-party hardware platforms now have Brik awareness. |
| RHEL/SUSE on PowerPC fileset support | PowerPC hosts running the RHEL or SUSE Linux distributions now support filesets. |
| AHV pre and post backup scripts | AHV virtual machines now support scripts to run before and after taking a backup snapshot. |
| Nutanix segmented data services support | Nutanix virtual machines can use a segmented volumes network to isolate Rubrik backup traffic to a separate network. |
| AHV exclude disk | Individual virtual disks can now be excluded from Nutanix virtual machine backups. |
| Nutanix/AHV Live Mount | Customers can create a Live Mount from a snapshot of a Nutanix virtual machine. Such a Live Mount can also migrate to a Nutanix storage container. |
| Oracle RAC Backup Distribution | Backup operations from a RAC to a Rubrik cluster can now use all nodes on the cluster. |
| Data Guard Member Node log deletion | Archive logs can now be deleted on all the members of Data Guard according to the host log retention policy configured for the Data Guard database. |
| PowerStore support | Enables support for the Dell EMC PowerStore feature with array-integrated VMware virtual machine backups. |
| VMware restore operations performance improvement | Enables HotAdd transport mode for export operations for increased export performance. |
| Faster Hyper-V backups | Hyper-V backup and restore performance is improved and storage space is reduced through cross-deduplication. Existing Hyper-V virtual machine backups taken with versions of Rubrik CDM earlier than 6.0 require a one-time action to benefit from this improvement. Knowledge base article 000006461 provides more details. |
| AWS S3 PrivateLink endpoint support | Enables access to specific S3 API endpoints for archiving, overriding the default endpoints determined by region selection. |

| Feature | Description |
|--|--|
| Immutable Archives for AWS S3 | Enables immutability for AWS S3 archive locations. |
| Upgrade events in Rubrik CDM web UI | Cluster and node upgrade events are now available in the Rubrik CDM web UI. |
| Hyperlinks to knowledge base articles for all error messages in Rubrik CDM web UI and emails | Error messages in the Rubrik CDM web UI and in emails sent to users now have hyperlinks to the relevant knowledge base articles. |
| Log backup for Oracle and SQL Server in SLA Domain | SLA Domains that protect Oracle and SQL Server databases can now specify log backup configurations. Existing log backup configurations will be migrated into the SLA Domain for centralized management of database and log backup configuration files. The databases with log configuration files that do not match the SLA Domain will be retained and still managed by the SLA Domain. Knowledge base article 000007196 provides more details. |
| Hyper-V Live Mount support for SCVMM | The SCVMM console can now manage a Live Mount of a Hyper-V virtual machine. |
| vCD option to retain MAC Addresses | The Rubrik CDM web UI provides the ability to retain MAC addresses for vApps and templates being recovered. |
| vCD 10.3 support | VMware Cloud Director support extended to version 10.3. |
| Trusted SSL-TLS interception | Support for Trusted SSL-TLS interception added to Rubrik CDM. Trusted SSL-TLS interception uses proxy servers to allow secure or trusted inspection of SSL-TLS encrypted network traffic. |
| CloudOn support for CentOS/RHEL 7.9 | CloudOn conversion now supports virtual machines on AWS or Azure running CentOS/RHEL version 7.9. |

Known issues

Some known issues exist for Rubrik CDM 7.0.

| Ticket | Issue |
|------------|---|
| CDM-300121 | Deleting the administrator account of a tenant organization without deregistering the Envoy virtual machine causes an inconsistent web UI experience when that virtual machine is redeployed in a different tenant organization. |
| CDM-305085 | In rare cases, the failover process in AppFlows may not successfully start one or more of the recovered virtual machines. Manual consolidation of the impacted virtual machines may help. Technical notes provides further information. |

Release 7.0.2 new features

Rubrik CDM version 7.0.2 has new features.

| Feature | Description |
|---|---|
| Improved auto upgrade capabilities for Rubrik Backup Service | Auto-upgrade of Rubrik Backup Service now provides additional package management features, including: package version update, retention of local cron settings and custom agent scripts, and maintaining the UUID, permissions, and keys from the prior version. Also, this version adds auto-upgrade for Oracle, SAP HANA, and Rubrik Envoy. |
| Enhanced support for multiple tags on VMware virtual machines | Added support for sorting and filtering vSphere virtual machines based on multiple tags, instead of just a single tag. |

Release 7.0.1 new features

Rubrik CDM version 7.0.1 has new features.

| Feature | Description |
|--|---|
| Support for Glacier Instant Retrieval Tier | Rubrik CDM now supports the Glacier Instant Retrieval tier for archival data on Amazon S3. |
| CloudOn support for CentOS/RHEL 8.4 | CloudOn conversion now supports virtual machines on AWS or Azure running CentOS/RHEL version 8.4. |
| CloudOn support for Windows 2019 | Rubrik CloudOn now supports the Windows 2019 operating system. |
| Envoy NG | Redesigned Rubrik Envoy feature for MSP environments. |
| Two-Person Rule | Cluster configuration changes and operations can require approval from a user with a specific approver role in order to proceed. |
| Download snapshots from replication target | Backups that are not locally available but that have been replicated to another Rubrik cluster can be downloaded in order to perform a local restore operation. |
| Linux host systemd support of RBS | Installations of the Rubrik Backup Service (RBS) on Linux hosts support systemd. |
| CDM Service Accounts | Enables the generation of short-lived (24 hour) API tokens used by dedicated user accounts for scripted automation. |

Version 7.0.2-p4 fixes

Rubrik CDM version 7.0.2-p4 includes general security improvements and the following fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-320793 | Upgrades from 6.0.3-p8 to 7.0.2-p3 can cause an internal logic error leading to a failure in backup, archival and other background jobs on the cluster. |
| CDM-308116 | Managed Volumes exceed capacity without alerting customers resulting in backup failures. |

Version 7.0.2-p3 fixes

Rubrik CDM version 7.0.2-p3 includes general security improvements and the following fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-311265 | Deployment failures when adding Isilon 9.3.0.6 to Rubrik CDM 7.0.1-p2. |
| CDM-307547 | Existing snapshot retention options are not available for "Do Not Protect" and "Clear Existing Protection". |
| CDM-307536 | Hyper-V backup may fail if the host has more than one interface. |
| CDM-306307 | Archival restore failures on Amazon S3 Glacier storage. |
| CDM-301377 | Leaked files causing spacing issues. |

Version 7.0.2-p2 fixes

Rubrik CDM version 7.0.2-p2 includes general security improvements and the following fixes.

| Ticket | Summary of issue |
|------------|--|
| CDM-311863 | Snapshot failure warnings and fileset backup scanning failures occur during NetApp NFS/SMB share backup. |
| CDM-310402 | Replication job for SAP HANA databases freezes, resulting in no recent data replication for affected databases. |
| CDM-310325 | Cloud incremental conversion job failed with "Failed to apply cloud dependencies for OS Disk". |
| CDM-310254 | Potential issue related to filter bypass in REST API. |
| CDM-310248 | Inconsistencies with authenticated users using Rubrik Backup Service and powershell script or win32. |
| CDM-310245 | Potential issue in a start up command used by the Rubrik Backup System software on Windows systems. |
| CDM-309920 | Overbroad permissions flagged for ibinject.so module. |
| CDM-308984 | Performance issues with CBT and Rubrik Backup Service. |
| CDM-308035 | Cloud incremental conversion job failed with message "Failed to apply cloud dependencies for OS Disk." |
| CDM-307547 | Existing snapshot retention options are not available for "Do Not Protect" and "Clear Existing Protection." |
| CDM-306209 | Virtual machine does not get correct SLA after failover. |
| CDM-301348 | Unable to complete backup when one node is down in a three-node cluster. |
| CDM-235308 | Compliance reports on Rubrik CDM and Rubrik Polaris are incorrect if protected objects are moved in and out of compliance. |
| CDM-294794 | Cross restore jobs stuck for a protected database. |
| CDM-298244 | Modify SAP HANA log to replicate more than one log in one job. |
| CDM-304057 | Stop scheduling Cross/Reverse/Consolidate jobs for group without incrementals. |

| Ticket | Summary of issue |
|------------|---|
| CDM-291909 | Add index to snappable_id in db_log_snapshot. |
| CDM-309390 | Restore from snapshots of archived or deleted system. |

Version 7.0.2-p1 fixes

Rubrik CDM version 7.0.2-p1 includes general security improvements and the following fixes.

| Ticket | Summary of issue |
|------------|--|
| CDM-308680 | SQL Server databases with names containing `` characters are incompatible. |

Version 7.0.2 fixes

Rubrik CDM version 7.0.2 includes general security improvements and the fixes listed in the following table.

| Ticket | Summary of issue |
|------------|--|
| CDM-307599 | SLA domain edits on the Rubrik cluster lead to removal of CDP protection from the SLA. |
| CDM-306768 | Security fix for Rubrik Backup Service on Linux hosts. |
| CDM-306527 | InfluxDB service remains in restart loop. |
| CDM-305529 | Hostname change fails when there are REMOVED nodes on the Rubrik cluster. |
| CDM-294794 | Cross restore jobs stuck for a protected database. |
| CDM-298244 | Modify SAP HANA log to replicate more than one log in one job. |
| CDM-304057 | Stop scheduling Cross/Reverse/Consolidate jobs for group without incrementals. |
| CDM-291909 | Add index to snappable_id in db_log_snapshot. |
| CDM-305362 | Periodic notifications for sanity checks on the Rubrik Cloud Cluster fail. |
| CDM-303261 | |
| CDM-305833 | |
| CDM-304979 | Rubrik cluster reboots during upgrade. |
| CDM-305198 | |
| CDM-304721 | SQL Server restores jobs to a failover Rubrik cluster freeze if the Rubrik cluster is unable to find an active host. |
| CDM-307086 | |
| CDM-307545 | |
| CDM-304326 | Erroneous data queries block expiry jobs, preventing transitions from FINISHING state. |
| CDM-303540 | Admin CLI does not show VDDK server logs in VMware section of support log_view command. |
| CDM-303357 | Envoy-NG registration failure when using username/password or API token. |
| CDM-308020 | |

| Ticket | Summary of issue |
|------------|--|
| CDM-302775 | Rubrik Edge clusters with virtual disks can observe low overall throughput/high disk IO latencies. |
| CDM-302731 | Rubrik Edge cluster upgrades fail in acquiring stage, triggering unexpected rollback to previous Rubrik cluster version. |
| CDM-302953 | |
| CDM-303815 | |
| CDM-302528 | Unsuccessful completion of decommissioning and node removal jobs on Rubrik cluster. |
| CDM-302273 | Delays on NFS server recognizing deleted files or folders are no longer in use, resulting in error. |
| CDM-302236 | Rubrik cluster name not updated in replication events on both target and source. |
| CDM-302099 | Node failure due to remote Rubrik cluster service not online after Rubrik Edge upgrade. |
| CDM-301855 | vCenter refresh latency when there are a large number of tags in vSphere inventory. |
| CDM-302959 | |
| CDM-307076 | |
| CDM-301454 | Sporadic failure of SQL Server master database backups. |
| CDM-301439 | Azure CycleCloud cluster deployment failures on VNets with custom DNS servers. |
| CDM-301245 | During SAP HANA cross restore, script fails with the error message: "Restore is already configured on the database." |
| CDM-301016 | Unable to poweroff or reboot Rubrik cluster after node names are changed. |
| CDM-300816 | Replicating virtual machine snapshots results in internal failure errors. |
| CDM-300512 | Hyper-V backup jobs crash looping after upgrading from Rubrik CDM versions 6.0.x - 7.0.x. |
| CDM-300397 | Oracle database not discovered after the upgrade to Rubrik CDM 5.3.3. |
| CDM-300135 | Recoverable chain broken and new resetlog ID created for DB. |
| CDM-299648 | Incorrect message placement for Load Balancer in web UI. |
| CDM-299631 | No index jobs running on nodes. |
| CDM-303914 | |
| CDM-303888 | |
| CDM-305063 | |
| CDM-305994 | |
| CDM-299269 | Backups fail with error message "Failed to initialize Rubrik SQL Writer." |
| CDM-299092 | Oracle databases not discoverable after Rubrik CDM version 7.0.0-p1-14932 upgrade. |
| CDM-299133 | |
| CDM-299087 | |
| CDM-298692 | SnapMirror Cloud version check incorrectly reads ONTAP version 9.10 as version 9.1. |

| Ticket | Summary of issue |
|--|--|
| CDM-298486 CDM-278803 CDM-233181 | vCenter refresh fails and CDM VMware web UI pages stop loading when virtual machine migrates to a new folder with a new parent. |
| CDM-298399 | Password logged in plaintext in syslogs and job fetcher logs. |
| CDM-298361 | Replication job throughput decreases after upgrade to Rubrik CDM version 7.0.x. |
| CDM-297857 CDM-300837 CDM-301091 CDM-299419 CDM-302791 CDM-298477 CDM-303904 CDM-299011 CDM-302291 CDM-307220 CDM-285054 | Performance page not loading on web UI. |
| CDM-297041 | Web UI calendar view displays inconsistent results. |
| CDM-297024 | Live Mount job durations for Oracle files vary even for the same PIT on a loaded Rubrik cluster. |
| CDM-296898 | Users do not have visibility to resource due to error message: "Exception: key not found: UNPROTECTED." |
| CDM-296367 | Backups of NAS SME filesets with DFS shares can skip some files. |
| CDM-296354 | No method in web UI to automatically add prefixes to virtual machines. |
| CDM-295785 | Frequent InfluxDB restarts due to graphite partition filling up and increased CPU and memory utilization by the InfluxDB service. |
| CDM-295175 | Enabling software encryption for at-rest data can cause upload jobs to fail. |
| CDM-295094 | After upgrading to Rubrik CDM version 7.0, when vSphere inventory has more than one datacenter, tag-based assignment of SLA Domains to virtual machines stops working. |
| CDM-295023 CDM-300031 | Upgrade failure with disk related errors after reboot. |
| CDM-295012 | Web UI displaying failed upgrade message while node is in BAD state. |
| CDM-293593 | Failure displaying virtual machine page in web UI. |
| CDM-292947 CDM-300974 | Recoverable chain failure during Oracle log backups when there are more than 100 archive logs in a backup job. |
| CDM-292828 CDM-240298 | Multiple NAS DA partitions overwrite some database values, causing backups to fail. |

| Ticket | Summary of issue |
|--------------------------|--|
| CDM-292486 CDM-293831 | Oracle Data Guard databases that are marked as relics and are assigned to an SLA Domain become unassigned. This results in a new recoverability chain. |
| CDM-291414 | Upgrade frozen for several days. |
| CDM-291165 CDM-303442 | Replaced FIPS disks fail to set up correctly. |
| CDM-291154 | Hyper-V virtual machine backups failing due to RCT information unavailability on host. |
| CDM-290266 | SQL Server scale backups fail to restore with a 9004 error appearing in the logs. |
| CDM-289714 | Multiple Oracle Data Guard databases and groups created after the discovery of primary and standby members. |
| CDM-284233 CDM-281982 | Incomplete log rotation policies for internal databases lead to full logs directories. |
| CDM-284028 CDM-290924 | Web UI incorrectly reports running jobs as canceled. |
| CDM-279427 | Updates to HealthMonitor policy logic do not correctly apply behavior after upgrade. |
| CDM-273711 CDM-290286 | Hosting a Hyper-V virtual machine VHDX file in a share that is not registered to SCVMM causes spurious migration and Unsupported Virtual Machine Configuration alerts. |
| CDM-272058 CDM-295386 | Duplicated gateways cause connectivity problems since metadata and Linux configurations are not synced. |
| CDM-243648 | vCenter Server delete job frozen. |
| CDM-240639 | Scrolling too quickly in the list of protectable objects in the Create/Edit Organization and Create/Edit Role wizards can leave data gaps, making all object selection more difficult. |

Version 7.0.1-p4 fixes

Rubrik CDM version 7.0.1-p4 includes fixes.

| Ticket | Summary of issue |
|------------|--|
| CDM-306768 | Security fix for Rubrik Backup Service on Linux hosts. |

Version 7.0.1-p3 fixes

Rubrik CDM version 7.0.1-p3 includes general security improvements and the fixes listed in the following table.

| Ticket | Summary of issue |
|--------------------------|---------------------------------|
| CDM-304979 CDM-305918 | Cluster reboots during upgrade. |

| Ticket | Summary of issue |
|------------|---|
| CDM-301439 | Failures when deploying a VM from Rubrik images in the Azure Marketplace. |
| CDM-298361 | Replication job throughput decreasing after upgrade to 7.0. |

Version 7.0.1-p2 fixes

Rubrik CDM version 7.0.1-p2 includes fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-299092 | Oracle databases not discoverable after Rubrik CDM 7.0.0-p1-14932 upgrade. |
| CDM-299133 | |
| CDM-299087 | |
| CDM-292828 | Multiple NAS DA partitions overwrite some database values, causing backups to fail. |
| CDM-240298 | |
| CDM-301855 | vCenter refresh latency when there are a large number of tags in vSphere inventory. |
| CDM-302959 | |
| CDM-303357 | Envoy-NG registration failure when using username/password or API token. |
| CDM-300816 | Replicating virtual machine snapshots results in internal failure errors. |
| CDM-301435 | Log backup snapshot jobs cannot progress past FINISHING state due to other Oracle database jobs reserving required resources. |
| CDM-300889 | |
| CDM-297857 | Performance page not loading on UI. |
| CDM-300837 | |
| CDM-301091 | |
| CDM-299419 | |
| CDM-302791 | |
| CDM-298477 | |
| CDM-303904 | |
| CDM-289714 | Primary and standby Oracle database names with different case sensitivity are mapped to different data guard groups. |
| CDM-299631 | No index jobs running on any nodes. |
| CDM-303780 | Internal errors with APIs targeting virtual machines when triggering a failover, resulting in failover termination. |
| CDM-304326 | Erroneous data queries block expiry jobs, preventing transitions from FINISHING state. |

Version 7.0.1-p1 fixes

Rubrik CDM version 7.0.1-p1 includes fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-301964 | Spurious failure of disk capacity prechecks prevents upgrade. |

Version 7.0.1 fixes

Rubrik CDM version 7.0.1 includes fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-298692 | SnapMirror Cloud version check incorrectly reads ONTAP version 9.10 as version 9.1. |
| CDM-298413 | Threat hunts can be scheduled on snapshots that are not locally available. |
| CDM-298017 | An error in memory configuration scaling sometimes causes out of memory errors when a full backup is uploaded to Azure. |
| CDM-296482 | Threat hunts scan unindexed snapshots, creating false positive hunt results. |
| CDM-296367 | Backups of NAS SMB filesets with DFS shares can skip some files. |
| CDM-295349 | Reporting tasks occasionally fail to complete. |
| CDM-295094 | When the vSphere inventory has more than one datacenter, tag-based assignment of SLA Domains to virtual machines stops working reliably on all virtual machines after upgrading to Rubrik CDM 7.0.0-p1-14932. |
| CDM-294903 | An error in memory configuration scaling sometimes causes out of memory errors when a full backup is uploaded to Azure. |
| CDM-294303 | After upgrading from Rubrik CDM version 5, some backup jobs become unresponsive and do not progress. |
| CDM-294145 | An error in metadata-handling logic causes archival jobs to fail. |
| CDM-293611 | Menus in the Rubrik CDM web UI close when using the tab key instead of focusing on each menu item in turn. |
| CDM-293444 | An error in tiering comparison logic can cause downloads from S3 or S3 compatible locations to fail. |
| CDM-292882 | Failed indexing jobs for recovery partitions lead to increased memory usage and node reboots. |
| CDM-292486 | Oracle Data Guard databases marked as relics have any existing SLA Domain unassigned and start a new recoverability chain. |
| CDM-292402 | Error in partition handling can cause data loss in filesets. |
| CDM-292049 | In-place Recovery operations can become unresponsive when the underlying vCenter for the virtual machine is disconnected. |
| CDM-292013 | Fileset backup operations for a NAS over SMB can skip files under a DFS when the initial path to the share is 2 or more levels deep. |
| CDM-291828 | Failing to manually provision SSD data disks for Cloud Cluster - Elastic Storage nodes does not generate a warning or check but prevents successful cluster operation. |

| Ticket | Summary of issue |
|------------|--|
| CDM-291757 | The default maximum wait time for an archival download is insufficient in rare cases of unusually large downloads. |
| CDM-291402 | Incorrect handling of directories with a hyphen as the initial character. |
| CDM-291397 | Invalid file descriptors cause snapshot failures for Managed Volumes. |
| CDM-291395 | The nslookup command can become unresponsive instead of timing out. |
| CDM-291385 | Incorrect handling of square bracket characters in a virtual machine name causes failed export operations. |
| CDM-291165 | Replaced FIPS disks fail to set up correctly. |
| CDM-291148 | Windows Server 2022 is not in the supported OS list. |
| CDM-291110 | The unmount job for a VMware virtual machine made available as a Live Mount can become unresponsive. |
| CDM-290992 | Oracle Data Guard logs do not propagate correctly when snapshots are taken with Data Guard on standby. As a result, logs are incorrectly recorded as missing sequences, which breaks the recoverability chain. |
| CDM-290897 | Exporting an AHV virtual machine can fail. |
| CDM-290631 | Jobs can fail to resume after being paused. |
| CDM-290266 | SQL Server scale backups fail to restore with a 9004 error appearing in the logs. |
| CDM-290232 | Oracle recovery jobs can create duplicate NFS exports. |
| CDM-290214 | Retention lock settings at an archival location prevent local snapshots from expiring according to their SLA Domain settings. |
| CDM-289924 | Rubrik clusters attempt to install the wrong version of the Rubrik Backup Service to Debian hosts. |
| CDM-289920 | Legacy customers see the registration screen after upgrading. |
| CDM-289358 | Manually restoring an Oracle database from a Live Mount can break the recoverability chain for that database. |
| CDM-288181 | General security improvements. |
| CDM-287710 | Subnets are not supported for Nutanix AHV virtual machines. |
| CDM-287688 | Failure cases for jobs to add HotAdd proxy virtual machines are incorrectly handled. |
| CDM-287558 | Jobs to verify connection to an archive store become unresponsive. |
| CDM-287365 | Live Mount names cannot contain spaces. |
| CDM-287300 | Linked virtual machines can prevent Rubrik cluster upgrades from completing successfully. |
| CDM-287177 | Fileset backup jobs fail intermittently due to an error in the agent server. |
| CDM-286840 | Download jobs from a reader connection to an Azure archival location with tiering enabled might fail. |
| CDM-286818 | Hyper-V virtual machines can create a duplicate entry in the host table instead of refreshing. |
| CDM-286083 | Virtual machines do not link properly. |
| CDM-286069 | Archival upload refresh jobs fail. |
| CDM-285631 | The VDDK service can stop unexpectedly, leading to job failures. |

| Ticket | Summary of issue |
|---------------|--|
| CDM-285439 | Stale NFS mounts can cause a database backup job to become unresponsive. |
| CDM-285430 | After the hostname changes, re-IP attempts fail. |
| CDM-285381 | Oracle backups fail after upgrading to Rubrik CDM version 6.0.2. |
| CDM-285286 | Database snapshots are missing from a recoverable backup chain. |
| CDM-285178 | After an upgrade, more open file handles are required than are available, resulting in backup failures. |
| CDM-285007 | The MSR and Recovery partitions are unformatted after a bare-metal recovery. |
| CDM-284220 | Standby Oracle databases can experience delays in receiving logs from the primary Oracle database, causing backup operations for the standby Oracle database to fail. |
| CDM-284124 | NAS SMB fileset backup can get stuck, requiring manual cancellation. |
| CDM-283999 | Uploads to Scalify archival locations fail when uploading large files. |
| CDM-283954 | An error in the version checking logic causes some hard disks to not pass cluster pre-checks, preventing the disks from being added to the Rubrik cluster. |
| CDM-283814 | On the vCD vApp details page, clicking on a virtual machine name may redirect the user to the details page for another virtual machine. |
| CDM-282678 | SDFS performance spikes can lead to transient high load conditions. |
| CDM-282655 | Upload jobs can show negative values for bytes remaining to upload and time remaining in the monitoring page on the UI. |
| CDM-282468 | Users in some organizations are unable to view Data Guard group databases despite proper permissions. |
| CDM-282444 | Default settings for Oracle Data Guard groups can lead to backups not being able to start for any Oracle database in the Data Guard group. |
| CDM-282215 | API calls to manage Oracle hosts and RACs do not provide a way to filter out archived items. |
| CDM-281954 | When concurrent NAS Filesets are scheduled, some jobs may fail to create a Nutanix snapshot for the share. |
| CDM-279427 | Updates to health-policy logic do not correctly update behavior after an upgrade. |
| CDM-278602 | The job monitoring dashboard shows a higher count of active jobs than the number of active jobs in the actual list. |
| CDM-277850 | Re-adding a VLAN does not refresh static routes. |
| CDM-277159 | Snapshots take up more disk space than necessary due to deduplication jobs failing. |
| CDM-275673 | Creating a Support bundle causes CDM nodes connect to the Python Package Index site as part of an unsuppressed PIP version check. |
| CDM-275431 | After an upgrade to Rubrik CDM version 6.0.0, Oracle DataGuard database backups can fail due to metadata errors. |
| CDM-273711 | Hosting a Hyper-V virtual machine VHDX file in a share that is not registered to SCVMM causes spurious migration and Unsupported Virtual Machine Configuration alerts. |
| CDM-272101 | Replication jobs can fail to clean up properly. |
| CDM-271855 | Backup jobs for Oracle databases become unresponsive without sending notifications due to an Oracle bug fixed by Oracle Patch 21813510. |

| Ticket | Summary of issue |
|------------|--|
| CDM-269778 | Cascading archival of VMware snapshots fails when the replication source is upgraded before the replication target is upgraded. |
| CDM-269707 | The removal of the NDC field from syslog in the 5.3.3 release of Rubrik CDM breaks a framework that relies on the presence of the field. |
| CDM-267751 | The Oracle database detail page does not load for some databases. |
| CDM-266618 | Weak TLS ciphers are not deprecated in the Rubrik Backup Service (RBS). |
| CDM-266053 | NAS shares show the wrong SLA Domain. |
| CDM-265764 | A default setting in the btrfs filesystem performs rebalancing for the filesystem. This rebalancing prevents virtual machine disks that use btrfs from unmounting until the partition rebalance completes. |
| CDM-262744 | After deleting a cloud account, the global connectivity check becomes unresponsive. |
| CDM-262609 | Restoring SQL Server backups can fail due to errors in the backup XML metadata. |
| CDM-257852 | Stopping an Oracle database instantiated as a Live Mount can take a long time. |
| CDM-251747 | Rubrik Backup Service (RBS) processes have a high performance effect on the hosts where RBS is installed. |
| CDM-248167 | Rubrik CDM is unable to complete FlashBlade snapshot operations using the FlashBlade REST API. |
| CDM-247899 | Excluding all disks of a virtual machine from backup operations does not require user validation. |
| CDM-243108 | Snapshot downloads from Azure Reader locations might fail. |

Version 7.0.0-p2 fixes

Rubrik CDM version 7.0.0-p2 includes fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-295094 | When the vSphere inventory has more than one datacenter, tag-based assignment of SLA Domains to virtual machines stops working after upgrading to Rubrik CDM 7.0. |
| CDM-290266 | SQL Server scale backups fail to restore with a 9004 error appearing in the logs. |

Version 7.0.0-p1 fixes

Rubrik CDM version 7.0.0-p1 includes fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-295175 | Enabling software encryption for at-rest data can cause upload jobs to fail. |
| CDM-294903 | An error in memory configuration scaling sometimes causes out of memory errors when a full backup is uploaded to Azure. |
| CDM-293319 | UML retry attempts do not verify whether the retry ultimately succeeded. |
| CDM-292402 | Error in partition handling can cause data loss in filesets. |

| Ticket | Summary of issue |
|------------|--|
| CDM-291828 | Failing to manually provision SSD data disks for Cloud Cluster - Elastic Storage nodes does not generate a warning or check but prevents successful cluster operation. |
| CDM-291397 | Invalid file descriptors cause snapshot failures for Managed Volumes. |
| CDM-290992 | Oracle Data Guard logs do not propagate correctly when snapshots are taken with Data Guard on standby. As a result, logs are incorrectly recorded as missing sequences, which breaks the recoverability chain. |
| CDM-290924 | Spurious events appear in the logs regarding canceled replication jobs that have not actually been canceled. |
| CDM-290214 | Retention lock settings at an archival location prevent local snapshots from expiring according to their SLA Domain settings. |
| CDM-286069 | Archival upload refresh jobs fail. |
| CDM-265764 | A default setting in the btrfs filesystem performs rebalancing for the filesystem. This rebalancing prevents virtual machine disks that use btrfs from unmounting until the partition rebalance completes. |
| CDM-262609 | Restoring SQL Server backups can fail due to errors in the backup XML metadata. |

Version 7.0 fixes

Rubrik CDM version 7.0 includes fixes.

| Ticket | Summary of issue |
|------------|---|
| CDM-288181 | General security improvements. |
| CDM-287177 | Fileset backup jobs fail intermittently due to an error in the agent server. |
| CDM-287176 | After a node replacement, an error in a cleanup script can result in abnormal storage usage filling the disk. |
| CDM-284124 | NAS SMB fileset backup can get stuck, requiring manual cancellation. |
| CDM-283999 | Uploads to Scalify archival locations fail when uploading large files. |
| CDM-281812 | An error in date-persistence logic occasionally causes backup jobs to remain in the Finishing state indefinitely. |
| CDM-280471 | Memory leak in Rubrik Backup Agent. |
| CDM-276701 | Log backup jobs report missing sequence numbers for backup chains. |
| CDM-275426 | Multiple unmount jobs trigger for the same Oracle Live Mount, causing every unmount job after the initial successful unmount to retry indefinitely. |
| CDM-267751 | The Oracle database detail page does not load for some databases. |
| CDM-255912 | Database status is not always refreshed before a Backup operation resulting in some failed backup attempts for removed databases. |
| CDM-225957 | Automatic recovery for disks that mount as read-only after errors. |

Technical notes

The notes in this section provide specific information related to features in Rubrik CDM version 7.0.x.

vCenter Diagnostics Tool

The vCenter Diagnostics tool introduced in Rubrik CDM 7.0 has been deprecated in Rubrik CDM 7.0.1.

Deprecation of SnapDiff API versions 1 and 2

Rubrik provides Rubrik CDM integration with SnapDiff v1 and SnapDiff v2 for customers with Rubrik CDM accounts that were created before the GA release of Rubrik CDM version 7.0.1. Customers with Rubrik CDM accounts created on or after the date of the GA release of Rubrik CDM version 7.0.1 are provided with Rubrik CDM integration with SnapDiff v3 but NOT with Rubrik CDM integration with SnapDiff v1 and SnapDiff v2.

vCenter Server connectivity issues with TLS versions prior to 1.2

In Rubrik CDM 7.0, upgrading the OpenJDK version removes support for TLS versions 1.0 and 1.1. Support for TLS version 1.2 was added to vCenter Server in release 5.5U3e. Upgrading to Rubrik CDM 7.0 will result in an inability to connect to a vCenter Server running a release earlier than 5.5U3e.

Unsuccessful failover process in AppFlows

In rare cases, for AppFlows running on Rubrik CDM 7.0, the failover process may fail to start some of the recovered virtual machines. When this happens, the web UI provides the messages "Virtual Machine Consolidation Needed" and "Unable to access file since it is locked." To work around this issue, you can manually consolidate the virtual machines that did not start. To do this, in the vSphere UI, right click each virtual machine and click **Snapshot > Consolidation**.

Required registration for new Rubrik clusters

All new Rubrik appliances, third-party appliances, Rubrik Edge, and Rubrik Cloud Cluster deployments running Rubrik CDM 7.0.2 or higher require registration with Rubrik Security Cloud following cluster bootstrap.

Oracle Active Data Guard bug

A known bug in Oracle databases causes the DEST_ID value in the v\$archived_log view to print an incorrect ID.

In an Active Data Guard configuration that produces a backup from a standby database, the DEST_ID value in the v\$archived_log view prints an incorrect ID. This error causes the Rubrik cluster archive log backup to fail, resulting in a break in the snapshot recovery chain.

Oracle describes this issue and provides a potential solution in article #9002767 on the Oracle support site (requires an Oracle account to log in). You can download patch 900276 for Oracle version 19.14 from the Oracle support site to resolve the bug.

This bug is fixed in Oracle version 21c.

For other Oracle database versions, contact Oracle support directly to request version-specific patch.

Rubrik CDM 6.0.x to 7.0.x upgrades and Rubrik Envoy

Redeployment of all new Rubrik Envoy virtual machines is required immediately following an upgrade from Rubrik CDM 6.0.x to Rubrik CDM 7.0.x.

Previously registered hosts need to be re-registered to show as connected in the Rubrik CDM. The Rubrik Backup Server (RBS) client software does not need to be reinstalled.

Removal of Rubrik CDM UI proxy support for Rubrik Envoy

Rubrik CDM UI proxy support is not available for Rubrik CDM 7.0 and higher. To facilitate management access to client networks, Rubrik recommends using a load balancer or a Rubrik CDM floating IP exposing TCP/443 into a shared DMZ.

Multiple networks passing Rubrik Envoy traffic

Beginning with Rubrik CDM 7.0, Rubrik Envoy communication is determined using the IP configuration information registered with the `cdm_nat_address` command. If no configuration is specified, Rubrik Envoy uses the IP addresses associated with the CDM management network.

Rubrik Envoy set up is currently limited to a single IP and port address per Rubrik CDM node. Rubrik Envoy ingress to Rubrik CDM using different Rubrik CDM networks is not supported in Rubrik CDM 7.0.

Rubrik CDM 7.0.2 API Changelog

The "internal" and "v1" Rubrik CDM REST API paths have several changes in Rubrik CDM version 7.0.2.

Changelog for internal endpoints

In Rubrik CDM 7.0.2, the Rubrik CDM REST API has additions and changes for endpoints on the "internal" path.

Breaking changes

- Changed Managed Volume delete endpoint `DELETE /managed_volume` to return unexport job ID instead of unit.

Feature additions and improvements

- Added new optional field `isRetentionLocked` to `PolarisManagedSlaDomainDefinition` object.
- Added new optional fields `isFilter`, `filterCondition`, `description` to `VsphereTag` used by `GET /vmware/vcenter/{id}/tag` and `GET /vmware/vcenter/tag/{tag_id}`.
- Added a new optional query parameter `should_include_filters` to `GET /vmware/vcenter/{id}/tag`.
- Added new optional fields `isFilterCategory` to `VsphereCategory` used by `GET /vmware/vcenter/{id}/tag_category` and `GET /vmware/vcenter/tag_category/{tag_category_id}`.
- Added a new optional query parameter `should_include_filter_categories` to `GET /vmware/vcenter/{id}/tag_category`.
- Added a new optional query parameter `should_fail_if_in_use` to `DELETE /replication/target/{id}`.
- Added new optional field `guestCredentialId` to the object `RestoreFilesJobConfig` used by `POST /vmware/vm/snapshot/{id}/restore_files`.
- Added new optional field `capacityInBytes` to the object `BootstrappableNodeInfo` used by `GET /cluster/{id}/discover`.
- Added new `shouldDownloadToLocal` field to `/managed_volume/snapshot/{id}/restore` and `/managed_volume/snapshot/{id}/export`. When the snapshot to be exported is not local, this field specifies whether the snapshot should be downloaded before exporting.
- Added new endpoint `POST /cluster/{me}/online_registration_request` to generate an online registration request for the Rubrik Cluster with Polaris.

- Added new endpoint `POST /cluster/{me}/online_registration` to start the online registration of the Rubrik cluster post Polaris OAuth confirmation.
- Added new endpoint `GET /cluster/{me}/is_host_reachable` to check if a host is reachable from the Rubrik cluster.

Changelog for v1 endpoints

In Rubrik CDM 7.0.2, the Rubrik CDM REST API has additions and changes for endpoints on the "v1" path.

Feature additions and improvements

- Added a new endpoint `POST /config_protection/backup` to backup the cluster configurations.
- Added a new endpoint `GET /config_protection/backup` to list the configurations backups.
- Added a new endpoint `DELETE /config_protection/backup` to delete the configurations backups.
- Added a new endpoint `POST /config_protection/restore` to restore the configurations backups.
- Added a new endpoint `POST /config_protection/download_config_backup` to download the configurations backups.
- Added a new endpoint `POST /config_protection/restore_form` to generate the restore form for the configurations backups.
- Updated endpoints `POST /nas/system` and `PATCH /nas/system/{id}` to support generic NAS host registration and modification.
- Added new endpoint `POST /vmware/vcenter/{id}/tag_filter` to create filters for multiple vSphere tags joined by conditional logic.
- Added new endpoint `PUT /vmware/vcenter/{id}/tag_filter/{filter_id}` to update a multi-tag filter.
- Added `DELETE /vmware/vcenter/{id}/tag_filter/{filter_id}` endpoint to delete multi-tag filters.
- Added new endpoint `GET /vmware/vcenter/{id}/tag_filter/preview` to preview virtual machines under a given multi-tag filter condition.
- Added new optional field `guestCredentialId` to the object `RestoreFileJobConfig` used by `POST /vmware/vm/snapshot/{id}/restore_file`.
- Added new optional field `guestCredentialId` to the object `VirtualMachineUpdateWithSecret` used by `PATCH /vmware/vm/{id}`.
- Updated existing endpoint `GET /cluster/{id}/offline_entitle` to support post-bootstrap workflow.
- Added new optional field `isEntitled` to `GET /cluster/{id}/offline_entitle`.
- Added a new endpoint to create a Managed Volume: `POST /managed_volume`.
- Added a new endpoint to delete a Managed Volume: `DELETE /managed_volume/{id}`.
- Added Managed Volume begin snapshot v1 endpoint: `POST /managed_volume/{id}/begin_snapshot`.
- Added Managed Volume end snapshot v1 endpoint: `POST /managed_volume/{id}/end_snapshot`.
- Added a new endpoint to delete an exported Managed Volume snapshot: `DELETE /managed_volume/snapshot/export/{id}`.
- Updated existing endpoint `/cluster/{id}/online_entitle` to support post-bootstrap workflow.
- Added a new endpoint `GET /vmware/vcenter/{id}/connectivity` to retrieve connectivity status for a given vCenter.
- Added a new field `lastUpdatedTime` to the object `VcenterConnectivityStatus` used by `GET /vmware/vcenter/{id}/connectivity`.
- Added a new field `jobId` to the object `VcenterConnectivityStatus` used by `GET /vmware/vcenter/{id}/connectivity`.

Rubrik CDM 7.0.1 API Changelog

The Rubrik CDM REST API paths: internal, v1,v2, and v3 have several changes in Rubrik CDM version 7.0.1.

Changelog for internal endpoints

In Rubrik CDM 7.0.1, the Rubrik CDM REST API has additions and changes for endpoints on the "internal" path.

Deprecation

- Deprecating `POST /internal/unmanaged_object/snapshot/assign_sla`.

Feature additions and improvements

- Added new endpoint `POST /sla_domain/bulk_assign` to assign multiple SLA Domains to the respective objects.
- Added new optional field `isPolarisNasModel` to the `FilesetCreate` object to be used by endpoints `POST /internal/fileset/bulk` and `POST /v1/fileset`.

Breaking changes

- Removed `POST /internal/unmanaged_object/snapshot/bulk_delete`.
- Removed `POST /internal/unmanaged_object/{id}/snapshot/bulk_delete`.

Changelog for v1 endpoints

In Rubrik CDM 7.0.1, the Rubrik CDM REST API has additions and changes for endpoints on the "v1" path.

Deprecation

- Deprecating `PUT /v1/sla_domain`.

Feature additions and improvements

- Added new endpoint `POST /volume_group/snapshot/{snapshot_id}/{location_id}/download` to download a Volume Group snapshot from a replication target.
- Added new endpoint `POST /nutanix/snapshot/{snapshot_id}/{location_id}/download` to download a Nutanix snapshot from a replication target.
- Added new endpoint `POST /hyperv/vm/snapshot/{snapshot_id}/{location_id}/download` to download a Hyper-V virtual machine snapshot from a replication target.
- Added new endpoint `POST /managed_volume/snapshot/{snapshot_id}/{location_id}/download` to download a Managed Volume snapshot from a replication target.
- Added new field `isEnforced` to `TprPolicyActionGroupDetail` returned by `GET /tpr/policy/action_groups`.
- Added new endpoint to create list of same quota settings for multiple organizations `PUT /organization/quotas/bulk`.
- Added new endpoint `GET /envoy_ng/live_mount_ips/{id}` to retrieve a list of live mount IP address to Rubrik CDM node UUID mappings for a specific tenant.
- Added new endpoint `PUT /envoy_ng/live_mount_ips/{id}` to update the list of live mount IP address to Rubrik CDM node UUID mappings for a specific tenant.
- Added new endpoint to get whether the two-person rule feature is enabled `GET /tpr/is_enabled`.

- Added new endpoint to add two-person rule action groups to two-person rule policy `PATCH /tpr/policy/action_groups/add`.
- Added new endpoint to remove two-person rule action groups from two-person rule policy `PATCH /tpr/policy/action_groups/remove`.
- Added new endpoint to update two-person rule configuration `PATCH /tpr/config`.
- Added new endpoint to get two-person rule configuration `GET /tpr/config`.
- Added new endpoints to enable and disable two-person rule: `POST /tpr` `DELETE /tpr`.
- Added new endpoint to get the two-person rule policy action groups: `GET /tpr/policy/action_groups`.
- Added new endpoints to approve, deny, and cancel two-person rule (TPR) requests: `POST /tpr/requests/approve`, `POST /tpr/requests/deny`, and `POST /tpr/requests/cancel`.
- Added new endpoints to retrieve two-person rule (TPR) requests: `GET /tpr/request/{id}` and `GET /tpr/requests`.
- Added new endpoint to submit two-person rule (TPR) request: `POST /tpr/request/{id}`.
- Add new parameter `is_archived` to SAP system endpoint: `GET /sap_hana/system`.
- Added new optional fields `shouldEncrypt`, `cryptoLibPath`, `trustStorePath`, `shouldValidateCertificate`, and `hostNameInCertificate` to the object `SapHanaSslInfo` used by `POST /sap_hana/system`.
- Updated existing endpoint `GET /vmware/vm` with new optional query parameter `should_include_advanced_summary`.
- Added new optional field `advancedSummary` to `VirtualMachineSummary` object.

Breaking changes

- Removed `PATCH /v1/sla_domain`.

Changelog for v2 endpoints

In Rubrik CDM 7.0.1, the Rubrik CDM REST API has additions and changes for endpoints on the "v2" path.

Feature additions and improvements

- Added new endpoint `POST /fileset/snapshot/{snapshot_id}/{location_id}/download` to download a Fileset snapshot from a replication target.
- Added new endpoint `POST /vcd/vapp/snapshot/{snapshot_id}/{location_id}/download` to download a vCD vApp snapshot from a replication target.
- Added new endpoint `POST /sla_domain/bulk_assign` to assign multiple SLA Domains to the respective objects.

Rubrik CDM 7.0.0 API Changelog

The Rubrik CDM REST API paths, internal, v1,v2, and v3 have several changes.

Internal API

In Rubrik CDM 7.0.0, the Rubrik CDM REST API has additions and changes for "internal" endpoints.

Feature additions and improvements

- Added new optional field `isIpv4ManualDiscoveryMode` to the `ClusterConfig` object used by `POST /cluster/{id}/bootstrap` and `POST /cluster/{id}/setupnetwork`.

- Added a new optional field `userType` to the object `UserDetail` used by `POST /user`, `GET /user/{id}`, `PATCH /user/{id}`.
- Added a new field `hasLogConfigFromSla` to the object `OracleRacSummary` used by `GET /oracle/rac`.
- Added a new field `hasLogConfigFromSla` to the object `OracleHostSummary` used by `GET /oracle/host`.
- Added a new field `hasLogConfigFromSla` to the object `OracleDbSummary` used by `GET /oracle/db`.
- Added a new field `hasLogConfigFromSla` to the object `OracleRacDetail` used by `GET /oracle/rac/{id}` and `PATCH /oracle/rac/{id}`.
- Added a new field `hasLogConfigFromSla` to the object `OracleHostDetail` used by `GET /oracle/host/{id}` and `PATCH /oracle/host/{id}`.
- Added a new field `hasLogConfigFromSla` to the object `OracleDbDetail` used by `GET /oracle/db/{id}` and `PATCH /oracle/db/{id}`.
- Added a new field `hasLogConfigFromSla` to the object `OracleUpdateCommon` used by `PATCH /oracle/rac/{id}`, `PATCH /oracle/host/{id}`, and `PATCH /oracle/db/{id}`.
- Added new optional field `hasLogConfigFromSla` to the object `MssqlSlaRelatedProperties` used by other objects `MssqlInstanceSummary`, `MssqlSlaPatchProperties`, `MssqlAvailabilityGroupSummary` and `MssqlHierarchyObjectSummary`.
- Added new optional field `shouldDistributeBackupsAutomatically` to the object `OracleHierarchyObjectSummary` used by `GET /oracle/hierarchy/{id}`, `GET /oracle/hierarchy/{id}/children`, and `GET /oracle/hierarchy/{id}/descendants`.
- Added optional fields to `NutanixVmPatch` to update pre- and post-scripts via `PATCH /nutanix/vm/{id}`. The response of `GET /nutanix/vm/{id}` is also impacted because it includes `NutanixVmPatch` in the `NutanixVmDetail` object.
- Added the `POST /cluster/{id}/brik_id` endpoint to set the Brik ID of Rubrik cluster nodes.
- Added a new object `BrikIdConfig` used by `POST /cluster/{id}/brik_id`.
- Added a new optional field `s3KmsEndpoint` to `ObjectStoreLocationSummary` object used by other objects `ObjectStoreLocationDefinition` and `ObjectStoreLocationDetail`.
- Added a new optional field `s3KmsEndpoint` to `ObjectStoreUpdateDefinition` object used by `PATCH /archive/object_store/{id}`.
- Added a new optional field `s3KmsEndpoint` to `ArchivalLocationSummary` object used by `GET /archive/location`.
- Added a new optional field `s3KmsEndpoint` to `ObjectStoreReaderConnectDefinition` object used by `POST /archive/object_store/reader/connect`.
- Added new optional boolean field `shouldDistributeBackupsAutomatically` to the `OracleUpdate` object, to be used by `PATCH /oracle/rac/{id}`.
- Added new optional field `totpReminderType` with type `TotpReminderType` to `SessionResponse` returned by `POST /session`.
- Added new string enum `TotpReminderType` with valid values including `SkippableReminderAdmin`, `SkippableReminderNonAdmin` and `NonSkippableReminder`.
- Added new optional fields `sizeInBytes`, `modifiedTime`, `numSnapshots`, `snapshotTime` to `GlobalSearchApiResponse` used by `GET /search/global`.
- Added new optional field `url` to the `GlobalManagerConnectionInfo` object returned by `GET /cluster/{id}/global_manager`.
- Added new optional field `isManagedByPolaris` to the `FilesetCreate` object, to be used by endpoints `POST /internal/fileset/bulk`, `POST /v1/fileset`.
- Added new endpoint `POST /report/global_object_csv/download` to upload CSV report file for Polaris.
- Added new endpoint `GET /report/global_object_csv_request/{job_id}` to get the details of an asynchronous request that uploads CSV report file for Polaris.

v1 API

In Rubrik CDM 7.0.0, the Rubrik CDM REST API has additions and changes for "v1" endpoints.

Deprecation

- Deprecating GET /sla_domain.
- Deprecating POST /sla_domain.
- Deprecating DELETE /sla_domain/{id}.
- Deprecating GET /sla_domain/{id}.

Feature additions and improvements

- Added POST /archive/lck/enable endpoint to enable the LCK location feature.
- Added POST /archive/lck/disable endpoint to disable the LCK location feature.
- Added POST /archive/dca/enable endpoint to enable the DCA location feature.
- Added POST /archive/dca/disable endpoint to disable the DCA location feature.
- Added GET /archive/lck/status endpoint to check if LCK location feature is enabled on the cluster.
- Added GET /archive/dca/status endpoint to check if DCA location feature is enabled on the cluster.
- Added the GET /snapmirror_cloud/{id}/snapshot endpoint to query snapshots of a SnapMirror Cloud protected object.
- Modified the POST /snapmirror_cloud and POST /snapmirror_cloud/bulk to return SnapMirrorCloudSummary instead of SnapMirrorCloudDetail.
- Removed archivedSnapshotCount field in SnapMirrorCloudDetail.
- Added new endpoints for service account management: POST /service_account, GET /service_account/{id}, DELETE /service_account/{id}, and PATCH /service_account/{id}.
- Add input optional fields shouldApplyToExistingSnapshots and shouldApplyToNonPolicySnapshots to POST /mssql/sla_domain/assign. These fields exist in the SLA end point /sla_domain/{id}/assign already.
- Added new endpoint to get cluster certificate update status: GET /cluster/{id}/cert_update_status.
- Added new endpoint to update the cluster certificate: POST /cluster/{id}/certificate.
- Added new endpoints to create, retrieve, update, and delete a Db2 instance: POST /db2/instance, GET /db2/instance/{id}, PATCH /db2/instance/{id}, DELETE /db2/instance/{id}.
- Added a new endpoint POST /db2/instance/{id}/refresh to initiate an on-demand discovery of a Db2 instance.
- Added a new endpoint to get Envoy NG statuses: GET /envoy_ng/status.
- Added new endpoint to get a certificate signing request generated from private key of the cluster GET /cluster/{id}/csr.
- Added new endpoint GET /envoy_ng/cdm_nat_addresses to retrieve a list of Rubrik CDM NAT TLS addresses.
- Added new endpoint POST /envoy_ng/cdm_nat_addresses to update Rubrik CDM NAT TLS addresses.
- Added new endpoint POST /envoy_ng/{id}/registration to register Envoy-NG to Rubrik CDM.
- Added a new endpoint to trigger and get status of replication recovery of a new replication source from target: POST /replication/cluster_recovery, GET /replication/cluster_recovery.
- Added new optional field logRetentionTimeInHours to the MssqlDbDefaultsUpdate object which is used by the PATCH /mssql/db /defaults endpoint.
- Added new optional field shouldUseDefaultBackupLocation to the MssqlDbDefaultsUpdate object which is used by the PATCH /mssql/db /defaults endpoint.
- Added new optional field shouldEnableHotAddProxyForOnPrem to the object VcenterConfig used by the POST /vmware/vcenter and PUT /vmware/vcenter endpoints.

- Added new optional field `isHotAddProxyEnabledForOnPremVcenter` to the `VcenterSummary` object used in the get, add, update and delete vCenter REST API responses.
- Added a new field `hasLogConfigFromSla` to the object `OracleRacDetail` used by `PATCH /oracle/rac/bulk`.
- Added a new field `hasLogConfigFromSla` to the object `OracleHostDetail` used by `PATCH /oracle/rac/bulk`.
- Added a new field `hasLogConfigFromSla` to the object `OracleDbSummary` used by `GET /oracle/db`.
- Added a new field `hasLogConfigFromSla` to the object `OracleDbDetail` used by `PATCH /oracle/db/bulk`, `PATCH /oracle/data_guard_group/{id}`, `GET /oracle/db/{id}`, `PATCH /oracle/db/{id}`.
- Added a new field `hasLogConfigFromSla` to the object `OracleUpdateCommon` used by `PATCH /oracle/db/{id}`, `PATCH /oracle/db/bulk`, `PATCH /oracle/rac/bulk`, `PATCH /oracle/host/bulk`.
- Updated existing endpoint `GET /certificate` with new optional query parameter `is_trusted`.
- Updated existing Objects `CertificateImportRequest` and `CertificatePatchRequest` with the newly added parameter `is_trusted`.
- Added new optional field `isTrusted` to the `CertificateSummary` object, which is used by the `GET /certificate`, `POST /certificate`, `GET /certificate/{id}`, and `PATCH /certificate/{id}` endpoints.
- Added new endpoint to refresh an Oracle database: `POST /oracle/db/{id}/refresh`.
- Removed optional fields `snapMirrorLabelForFullBackup` and `snapMirrorLabelForIncrementalBackup` from `SnapMirrorCloudSummary` object, and added new optional field `snapMirrorLabel` to the `SnapMirrorCloudSummary` object which is used by the `GET /snapmirror_cloud` endpoint.
- Removed optional field `snapMirrorLabelForFullBackup` and `snapMirrorLabelForIncrementalBackup` from `SnapMirrorCloudCreate` object, and added new optional field `snapMirrorLabel` to the `SnapMirrorCloudCreate` object, which is used by the `POST /snapmirror_cloud` and `POST /snapmirror_cloud/bulk` endpoints.
- Added new optional field `isVmwareMetroStorageCluster` to the `ClusterVisibilityConfig` object, which is used by the `GET /vmware/vcenter/{id}`, `POST /vmware/vcenter`, and `PUT /vmware/vcenter` endpoints.
- Added new endpoints to retrieve and update admin SSH authentication setting: `GET /cluster/{id}/security/admin_ssh_auth/setting`, `PATCH /cluster/{id}/security/admin_ssh_auth/setting`.
- Added a new endpoint `POST /archive/cold_storage_tier` to set the cold storage tier configuration.
- Added a new endpoint `GET /archive/cold_storage_tier` to get the cold storage tier configuration.
- Added a new object `ColdStorageTierConfig` used by the endpoint `POST /archive/cold_storage_tier`.
- Added new endpoints `PATCH /nas/system/{id}` and `DELETE /nas/system/{id}` to update and delete NAS systems, respectively.
- Added a new field `id` to the `LegalHoldSummary` object used by `GET /legal_hold/snapshot` `POST /legal_hold/snapshot`.
- Added optional field `isTotpEnforceUndecided` to `TotpGlobalSetting` used by `GET /cluster/{id}/security/totp/setting` endpoint.
- Added optional field `isReminderEnabled` to `TotpGlobalSetting` and `TotpGlobalSettingUpdate` used by the following endpoints: `GET /cluster/{id}/security/totp/setting`, `PUT /cluster/{id}/security/totp/setting`.
- Added new endpoints to retrieve and update replication network throttle settings: `GET /network_throttle/replication/target`, `GET /network_throttle/replication/target/{id}`, and `PATCH /network_throttle/replication/target/{id}`.
- Added a new field `nasIp` to the `VmwareVmMountDetailV1` object used by the `GET /vmware/vm/snapshot/mount/{id}` endpoint.
- Added new endpoint `POST /nas/system` to register a new NAS system to be protected.

- Added new endpoints `POST /snapmirror_cloud` to add a SnapMirrorCloud protectable object and `GET /snapmirror_cloud` to retrieve the existing SnapMirrorCloud protectable objects.
- Added new endpoint `POST /snapmirror_cloud/{id}/snapshot` to run on-demand SnapMirrorCloud backup job.
- Added optional fields: `id`(type: string) and `networkType`(type: VmwareNetworkType Enum) to `VmwareNetworkInfo`, which is used by: `Get /vmware/vm/{id}/snapshot` and `Get /vmware/config/recovery/networks`.
- Added new endpoint `GET /snapmirror_cloud/{id}` get detailed information of a SnapMirrorCloud snappable.
- Added new endpoint `DELETE /snapmirror_cloud/{id}` to delete a SnapMirrorCloud snappable.
- Added new endpoint `GET /snapmirror_cloud/request/{id}` to get details about an asynchronous request related to a SnapMirrorCloud workload.
- Added new endpoint `POST /snapmirror_cloud/bulk` to create multiple SnapMirrorCloud workloads.
- Added new endpoint `GET /config/overrides` to list configurations that have been modified.
- Added new optional field `vmcProvider` to `VirtualMachineDetail` returned by `GET /vmware/vm/{id}`.
- Added a new endpoint `GET /vmware/vcenter/{id}/required_privileges` to retrieve all vCenter privileges required by Rubrik.
- Added a new endpoint `GET /vmware/vcenter/{id}/missing_privileges/{entity_type}` to retrieve all missing privileges on objects with a given type in a given vCenter.
- Added optional field `isTransactionLogEventSeries` (type: boolean) to `EventSeriesSummaryV1` which is used by: `Get /event` and `Get /event_series/{id}`.
- Added a new endpoint `GET /vmware/vm/{id}/linking_info` to retrieve virtual machine linking info.
- Added a new optional field `isUpdateCertAndAgentIdEnabled`(type: boolean) to `HostUpdate` used by `PATCH /host/{id}` that specifies whether to update the Rubrik Backup Agent certificate and agent ID during host edit.
- Added new optional fields `sourceClusterId`, `targetClusterName` and `targetClusterId` to the object `JobMonitoringInfo` used by `GET /job_monitoring` and `GET /polaris/job_monitoring`.

New features

- Added new endpoint `POST /oracle/db/{id}/restore_logs`. This endpoint creates an asynchronous job to restore archive logs of an Oracle database.
- Added new endpoint for allowing local users to update their own password: `POST /user/{id}/update_password`.
- Added new endpoint `POST /snapmirror_cloud/relationship` to create SnapMirrorCloud relationship on NetApp server.
- Added new endpoint `GET /cluster/{id}/security/api_token_whitelist`. This endpoint retrieves the whitelist configuration for API Token credentials.
- Added new endpoint `PUT /cluster/{id}/security/api_token_whitelist`. This endpoint sets the whitelist configuration for API Token credentials.
- Corrected specification in `MssqlDbDetail`, `MssqlInstanceSummary`, and `OracleDbDetail` to correctly identify date-time as the response format for date-time properties.
- Added new endpoint `POST /nutanix/vm/snapshot/{id}/mount` to request a Live Mount from a Nutanix virtual machine snapshot.
- Added new endpoint `POST /snapmirror_cloud/{id}/unprotect` to unprotect a SnapMirrorCloud object and remove its SLA Domain.
- Added new endpoint `DELETE /snapmirror_cloud/relationship` to delete SnapMirrorCloud relationship on NetApp server.
- Added new endpoints `GET /snapmirror_cloud/{id}/search` and `GET /snapmirror_cloud/snapshot/{id}/browse` to enable searching for a file in a SnapMirrorCloud object or browsing files in a SnapMirrorCloud snapshot.
- Added new endpoint `POST /snapmirror_cloud/snapshot/{id}/restore` to kick off restore or export jobs for SnapMirrorCloud objects.

- Added new endpoint `GET /nas/request/{id}` to enable querying for the progress of a NAS-related job.
- Added new endpoint `DELETE /nutanix/vm/snapshot/mount/{id}` to request the removal of a Live Mount of a Nutanix virtual machine snapshot.
- Added new endpoint `GET /nutanix/vm/snapshot/mount` to query the summary information about Nutanix Live Mounts.
- Added new endpoint `GET /nutanix/vm/snapshot/mount/{id}` to get the detailed information about a Nutanix Live Mount.
- Added new endpoint `PATCH /nutanix/vm/snapshot/mount/{id}` to change the power status of a mounted Nutanix virtual machine.
- Added new endpoint `POST /nutanix/vm/snapshot/mount/{id}/migrate` to request the migration of a Nutanix Live Mount to another storage container.
- Added new endpoint `GET /cluster/{id}/is_entitled` to get entitlement statuses of the specified nodes.

v2 API

In Rubrik CDM 7.0.0, the Rubrik CDM REST API has additions and changes for "v2" endpoints.

Feature additions and improvements

- Added new endpoint `POST /vmware/vm/snapshot/{snapshot_id}/{location_id}/download` to download a VMware snapshot from an archive or a replication target.
- Added `OracleDatabase` and `Mssql` as two new keys in `LogConfigMap` for storing Oracle and MSSQL log SLA configuration in the SLA definition.
- Added new field `shouldUseHotAddProxy` in `ExportSnapshotJobConfigV2` to support export virtual disk data in HotAdd transport mode.
- Added new optional field `shouldEnableHotAddProxyForOnPrem` to the `VcenterConfigV2` object used by the `POST /vmware/vcenter` endpoint.
- Added new optional field `isHotAddProxyEnabledForOnPremVcenter` to the `VcenterCreateResponse` object used in the add vCenter REST API response.

v3 API

In Rubrik CDM 7.0.0, the Rubrik CDM REST API has additions and changes for "v3" endpoints.

Feature additions and improvements

- Added `OracleDatabase` and `Mssql` as two new keys in `LogConfigMap` for storing Oracle and MSSQL log SLA configuration in the SLA definition.

Compatibility Matrix

See the *Rubrik CDM Compatibility Matrix* for information about features, requirements, and compatibility for Rubrik CDM software.

Rubrik Build

Rubrik hosts community-based tools through the Rubrik Build program and associated GitHub repositories for community-supplied tools.

[Rubrik Build](#) is an open source program that provides access to a growing community of enthusiasts and experts across a number of languages and tools. Rubrik Build is used to create and improve projects that simplify monitoring, testing, development, and automated workflows for Rubrik product deployments.

Rubrik Build includes the following resources:

- [Software Development Kits](#)
- [Tooling Integrations](#)
- [Use Cases](#)
- [Community Projects](#)
- [Rubrik REST API documentation](#)

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Support

Use one of the following methods to contact Rubrik Support.

| | |
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| Web | Rubrik Support Portal |
| Phone | See Get In Touch for contact options. |
| Email | support@rubrik.com |

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