



# Australian Information Security Evaluation Program

## Certification Report Rubrik Cloud Data Management v8.1.0

Version 1.0, 19 June 2024

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(Certification expires five years from certification report date)

# Table of contents

<b>Executive summary</b>	<b>4</b>
<b>Introduction</b>	<b>5</b>
<b>Overview</b>	<b>5</b>
<b>Purpose</b>	<b>5</b>
<b>Identification</b>	<b>5</b>
<b>Target of Evaluation</b>	<b>7</b>
<b>Overview</b>	<b>7</b>
<b>Description of the TOE</b>	<b>7</b>
<b>TOE Functionality</b>	<b>7</b>
<b>TOE physical boundary</b>	<b>8</b>
<b>TOE Architecture</b>	<b>8</b>
<b>Clarification of scope</b>	<b>8</b>
Non-evaluated functionality and services	8
<b>Security</b>	<b>8</b>
<b>Usage</b>	<b>9</b>
Evaluated configuration	9
Software delivery procedures	9
Installation of the TOE	9
<b>Version verification</b>	<b>9</b>
<b>Documentation and guidance</b>	<b>9</b>
<b>Secure usage</b>	<b>9</b>
<b>Evaluation</b>	<b>10</b>
<b>Overview</b>	<b>10</b>

Evaluation procedures	10
Functional testing	10
Penetration testing	10
<b>Certification</b>	<b>11</b>
Overview	11
Assurance	11
Certification result	11
Recommendations	11
<b>Annex A – References and abbreviations</b>	<b>13</b>
References	13
Abbreviations	13

## Executive summary

This report describes the findings of the IT security evaluation of Rubrik Cloud Data Management v8.1.0 against Common Criteria EAL2+ALC\_FLR.1.

Rubrik Cloud Data Management is a software platform that distributes data, metadata, and task management across the cluster to deliver predictive scalability and eliminate performance bottlenecks. A Rubrik cluster is a collection of objects that includes sources from where data is being backed up, targets where backups are stored, and security principals, or the users and service accounts that manages the cluster.

This report concludes that the TOE has complied with the Common Criteria (CC) evaluation assurance level EAL2 augmented with ALC\_FLR.1 and that the evaluation was conducted in accordance with the Common Criteria and the requirements of the Australian Information Security Evaluation Program (AISEP).

The evaluation was performed by Teron Labs and was completed on 24 May 2024.

With regard to the secure operation of the TOE, the Australian Certification Authority (ACA) recommends:

- potential purchasers of the TOE should review the intended operational environment and ensure that they are comfortable that the stated security objectives for the operational environment can be suitably addressed
- the users should make themselves familiar with the guidance provided with the TOE and pay attention to all security warnings. In particular, the *Rubrik Cloud Data Management v8.1.0 Guidance Document Supplement* document must be followed for this TOE to be used in an evaluated configuration
- the users must maintain the confidentiality, integrity, and availability of security relevant data for TOE initialisation, start-up and operation if stored or handled outside the TOE
- system auditors should review the audit trail generated and exported by the TOE periodically
- the users should verify the integrity of the TOE software prior to installation by comparing the MD5 hash of the downloaded software against the MD5 value available from the download page link provided in the *Rubrik Cloud Data Management v8.1.0 Guidance Document Supplement* document.

This report includes information about the underlying security policies and architecture of the TOE, and information regarding the conduct of the evaluation.

It is the responsibility of the user to ensure that the TOE meets their requirements. For this reason, it is recommended that a prospective user of the TOE refer to the Security Target and read this Certification Report prior to deciding whether to purchase the product.

# Introduction

## Overview

This chapter contains information about the purpose of this document and how to identify the Target of Evaluation (TOE).

## Purpose

The purpose of this Certification Report is to:

- report the certification of results of the IT security evaluation of the TOE against the requirements of the Common Criteria
- provide a source of detailed security information about the TOE for any interested parties.

This report should be read in conjunction with the TOE’s Security Target [6] which provides a full description of the security requirements and specifications that were used as the basis of the evaluation.

## Identification

The TOE is Rubrik Cloud Data Management v8.1.0.

Description	Version
Evaluation scheme	Australian Information Security Evaluation Program
TOE	Rubrik Cloud Data Management
Software version	v8.1.0
Security Target	<i>Rubrik Inc. Cloud Data Management v8.1.0 Security Target Version 1.0, 16 May 2024</i>
Evaluation Technical Report	<i>Evaluation Technical Report Rubrik Cloud Data Management v8.1.0 dated 24 May 2024</i> Document reference EFT-T039-ETR 1.0
Criteria	Common Criteria for Information Technology Security Evaluation Part 2 Extended and Part 3 Conformant, April 2017, Version 3.1 Rev 5
Methodology	Common Methodology for Information Technology Security, April 2017 Version 3.1 Rev 5
Conformance	EAL 2 augmented with ALC_FLR.1 (Basic flaw remediation)
Developer	Rubrik Inc.

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# Target of Evaluation

## Overview

This chapter contains information about the Target of Evaluation (TOE), including a description of functionality provided, the scope of evaluation, its security policies and its secure usage.

## Description of the TOE

The TOE is Rubrik Cloud Data Management v8.1.0.

Rubrik Cloud Data Management is a software platform that distributes data, metadata, and task management across the cluster to deliver predictive scalability and eliminate performance bottlenecks. A Rubrik cluster is a collection of objects that includes sources from where data is being backed up, targets where backups are stored, and security principals, or the users and service accounts that manages the cluster.

The general functionality of Rubrik Cloud Data Management v8.1.0 includes:

- auto-configuration
- automated data discovery
- dynamic policy engine
- high speed data ingestion
- fast global file search
- instant recovery
- live storage for DevOps.

The security functionality of the TOE includes:

- security audit
- cryptographic support
- identification and authentication
- security management
- protection of the TOE security functionality (TSF)
- user data protection.

## TOE Functionality

The TOE functionality that was evaluated is described in section 1.6.2 of the Security Target [6].



## TOE physical boundary

The TOE physical boundary is described in section 1.6.1 of the Security Target [6].

## TOE Architecture

The Rubrik Cloud Data Management is a software-only TOE that runs in a virtual machine (VM) provisioned by an ESXi hypervisor. Components of the TOE are listed in the Table below.

Component	Description
Core	Comprised of the file system, metadata service, cluster management, and task framework: <ul style="list-style-type: none"> <li>• Rubrik Cloud-Scale File System is a distributed file system that stores and manages versioned data.</li> <li>• Rubrik Distributed Metadata Service provides a high-speed index, continuous availability, linear scalability, and operational simplicity with no single point of failure in the cluster.</li> <li>• Rubrik Cluster Management manages the Rubrik system setup and ongoing system health.</li> <li>• Rubrik Distributed Task Framework is the engine that globally assigns and executes tasks across the cluster.</li> </ul>
Data Management	<ul style="list-style-type: none"> <li>• Organizing, removing redundancy, and making data available for search.</li> <li>• Administrative interface.</li> </ul>

## Clarification of scope

The evaluation was conducted in accordance with the Common Criteria and associated methodologies.

The scope of the evaluation was limited to those claims made in the Security Target [6].

### Non-evaluated functionality and services

Potential users of the TOE are advised that some functions and services have not been evaluated as part of the evaluation. Potential users of the TOE should carefully consider their requirements for using functions and services outside of the evaluated configuration.

Australian Government users should refer to the *Australian Government Information Security Manual* [4] for policy relating to using an evaluated product in an unevaluated configuration.

## Security

The TOE Security Policy is a set of rules that defines how information within the TOE is managed and protected. The Security Target [6] contains a summary of the evaluated functionality.



## Usage

### Evaluated configuration

Instructions for using the TOE in the evaluated configuration are provided in the *Rubrik CDM v8.1.0 Guidance Documentation Supplement Document Version 1.0, 16 May 2024* [5].

### Software delivery procedures

The TOE is delivered to customers in the form of a .ova file. The download can be checked by comparison with a MD5 hash provided on the Rubrik CDM downloads page.

### Installation of the TOE

The *Guidance Documentation Supplement* [5] contains all relevant information for the secure configuration of the TOE.

## Version verification

The Rubrik software version evaluated is described as v8.1.0 but it should be noted that in full detail the version is 8.1.0-p2-24108. The version string “8.1.0-p2-24108” is expected in the virtual machine image filename.

## Documentation and guidance

The *Guidance Documentation Supplement* [5] available from Rubrik must be used as guidance on the secure installation and secure use of the TOE in the evaluated configuration.

Generic Common Criteria information is available at <https://www.commoncriteriaportal.org>.

The *Australian Government Information Security Manual* is available at <https://www.cyber.gov.au/ism> [4].

## Secure usage

The evaluation of the TOE took into account certain assumptions about its operational environment. These assumptions must hold in order to ensure the security objectives of the TOE are met.

- physical security commensurate with the value of the TOE and the data it contains is provided by the environment
- the administrators of the TOE shall not have any malicious intention, shall receive proper training on the TOE management and shall follow the administrator guidelines.

# Evaluation

## Overview

This chapter contains information about the procedures used in conducting the evaluation and the testing conducted as part of the evaluation.

## Evaluation procedures

The criteria against which the Target of Evaluation (TOE) has been evaluated are contained in the *Common Criteria for Information Technology Security Evaluation Version 3.1 Revision 5, Parts 2 and 3* [1, 2].

Testing methodology was drawn from *Common Methodology for Information Technology Security, April 2017 Version 3.1 Revision 5* [3].

The evaluation was carried out in accordance with the operational procedures of the Australian Information Security Evaluation Program [9]. In addition, the conditions outlined in the *Arrangement on the Recognition of Common Criteria Certificates in the field of Information Technology Security* were also upheld [8].

## Functional testing

To gain confidence that the developer testing was sufficient to ensure the correct operation of the TOE, the evaluators analysed the evidence of the developer’s testing effort. This analysis included examining the test coverage, test plans and procedures, and expected and actual results. The evaluators found that the developer tests covered all Security Functional Requirements specified in the Security Target.

The evaluators examined the TOE prior to testing and determined that the test configuration was consistent with the configuration under evaluation as specified in the Security Target. The evaluators followed the user installation and configuration guidance to ensure that the TOE had been installed correctly and was in a known state prior to conducting testing.

The evaluators drew upon the developer testing evidence to perform a sample of the developer tests in order to verify that the test results were consistent with those recorded by the developers. The evaluators also devised and conducted additional functional testing.

## Penetration testing

A vulnerability analysis of the TOE was conducted in order to identify any obvious vulnerability in the product and to show that the vulnerabilities were not exploitable in the intended environment of the TOE.

The evaluator performed a vulnerability analysis of the TOE in order to identify any obvious security vulnerability in the product, and if identified, to show that the security vulnerabilities were not exploitable in the intended environment of the TOE. This analysis included a search for possible security vulnerabilities in publicly-available information.

The following factors have been taken into consideration during the penetration tests:

- time taken to identify and exploit (elapsed time)
- specialist technical expertise required (specialist expertise)
- knowledge of the TOE design and operation (knowledge of the TOE)
- window of opportunity
- IT hardware/software or other equipment required for exploitation.

# Certification

## Overview

This chapter contains information about the result of the certification, an overview of the assurance provided and recommendations made by the certifiers.

## Assurance

EAL2 provides assurance by providing a full Security Target and an analysis of the Security Functional Requirements (SFRs) in that Security Target, using a functional and interface specification, guidance documentation and a basic description of the architecture of the TOE, to understand the security behaviour.

The analysis is supported by independent testing of the TOE Security Functionality (TSF), evidence of developer testing based on the functional specification, selective independent confirmation of the developer test results, and a vulnerability analysis (based upon the functional specification, TOE design, security architecture description and guidance evidence provided) demonstrating resistance to penetration attackers with a basic attack potential.

EAL2 also provides assurance through use of a configuration management system and evidence of secure delivery procedures.

This EAL represents a meaningful increase in assurance from EAL1 by requiring developer testing, a vulnerability analysis (in addition to the search of the public domain), and independent testing based upon more detailed TOE specifications.

## Certification result

Teron Labs **has determined** that the TOE upholds the claims made in the Security Target [6] and **has met** the requirements of Common Criteria EAL2 augmented with ALC\_FLR.1 (Basic flaw remediation).

After due consideration of the conduct of the evaluation as reported to the certifiers, and of the Evaluation Technical Report [7], the Australian Certification Authority **certifies** the evaluation of Rubrik Cloud Data Management v8.1.0 performed by the Australian Information Security Evaluation Facility, Teron Labs.

Certification is not a guarantee of freedom from security vulnerabilities.

## Recommendations

Not all of the evaluated functionality present in the TOE may be suitable for Australian Government users. For further guidance, Australian Government users should refer to the *Australian Government Information Security Manual* [4].

Potential purchasers of the TOE should review the intended operational environment and ensure that they are comfortable that the stated security objectives for the operational environment can be suitably addressed.

In addition to ensuring that the assumptions concerning the operational environment are fulfilled, and the guidance document is followed, the Australian Certification Authority also recommends:

- potential purchasers of the TOE should review the intended operational environment and ensure that they are comfortable that the stated security objectives for the operational environment can be suitably addressed
- the users should make themselves familiar with the guidance provided with the TOE and pay attention to all security warnings. In particular, the *Rubrik Cloud Data Management v8.1.0 Guidance Document Supplement* document must be followed for this TOE to be used in an evaluated configuration

- the users must maintain the confidentiality, integrity and availability of security relevant data for TOE initialisation, start-up and operation if stored or handled outside the TOE
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- the users should verify the integrity of the TOE software prior to installation by comparing the MD5 hash of the downloaded software against the MD5 value available from the download page link provided in the *Rubrik Cloud Data Management v8.1.0 Guidance Document Supplement* document.

# Annex A – References and abbreviations

## References

1. *Common Criteria for Information Technology Security Evaluation Part 2: Security functional components April 2017, Version 3.1 Revision 5*
2. *Common Criteria for Information Technology Security Evaluation Part 3: Security assurance components April 2017, Version 3.1 Revision 5*
3. *Common Methodology for Information Technology Security Evaluation, Evaluation Methodology, April 2017, Version 3.1 Revision 5*
4. *Australian Government Information Security Manual: <https://www.cyber.gov.au/ism>*
5. *Rubrik Cloud Data Management v8.1.0 Guidance Documentation Supplement, Version 1.0, 16 May 2024*
6. *Rubrik Cloud Data Management v8.1.0 Security Target EAL2+, Version 1.0, 16 May 2024*
7. *Evaluation Technical Report - EFT-T039-ETR V1.0 dated, 24 May 2024*
8. *Arrangement on the Recognition of Common Criteria Certificates in the field of Information Technology Security, 2-July-2014*
9. *AISEP Policy Manual (APM): [https://www.cyber.gov.au/sites/default/files/2023-03/2022\\_AUG\\_REL\\_AISEP\\_Policy\\_Manual\\_6.3.pdf](https://www.cyber.gov.au/sites/default/files/2023-03/2022_AUG_REL_AISEP_Policy_Manual_6.3.pdf)*

## Abbreviations

AISEP	Australian Information Security Evaluation Program
ACA	Australian Certification Authority
ALC_FLR	Assurance in Life Cycle – Flaw Remediation
ASD	Australian Signals Directorate
CC	Common Criteria
CCRA	Common Criteria Recognition Arrangement
EAL2	Evaluation Assurance Level #2
MD5	Message Digest #5 – 128 bit non-cryptographic hash function
.ova	Open Virtual Appliance format for virtual machine
SFR	Security Functional Requirement
SLA	Service Level Agreement
ST	Security Target document
TOE	Target of Evaluation
TSF	TOE Security Functionality