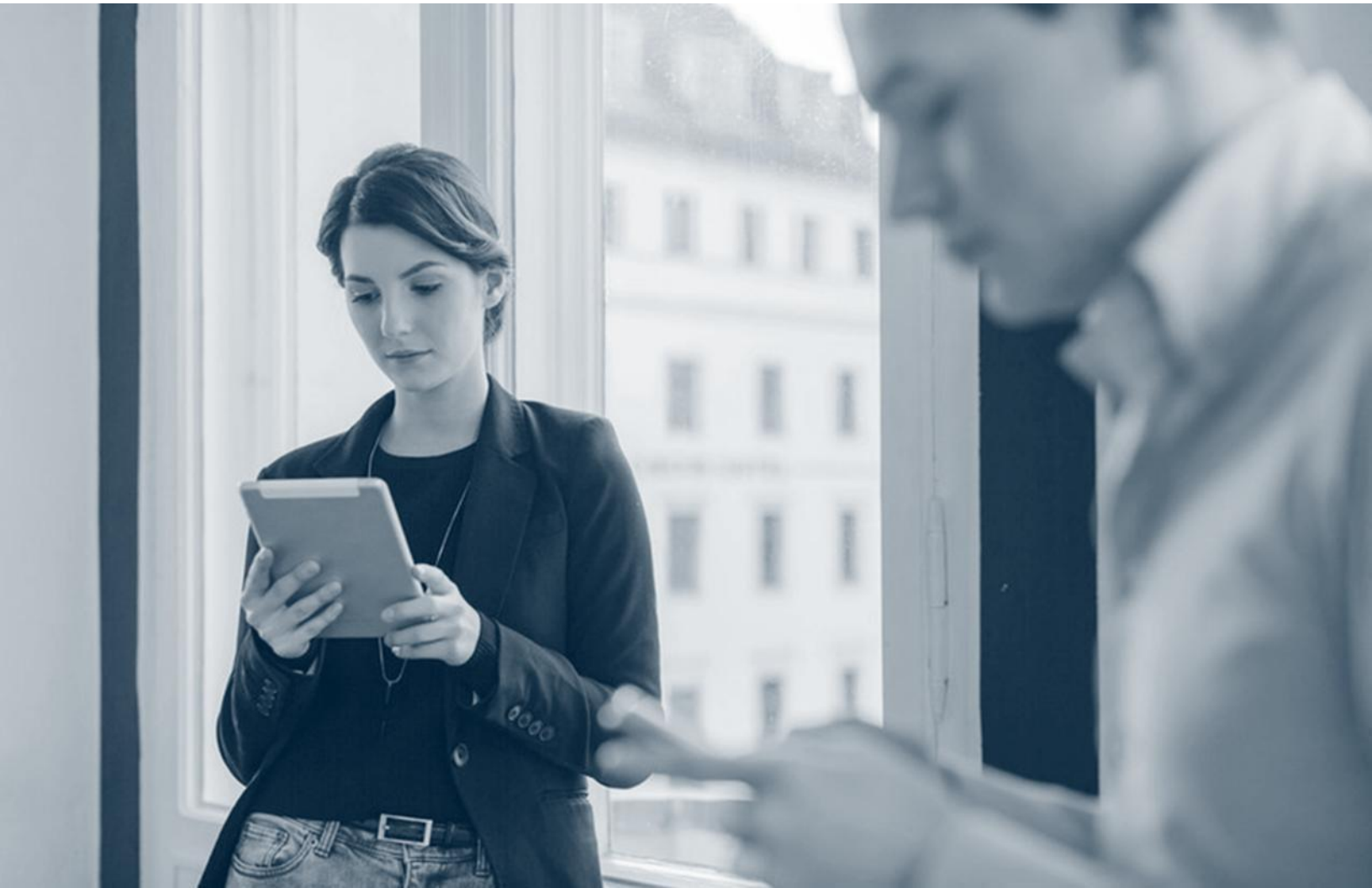




# Commvault Compliance with CIS Level 1 Security Controls (Linux Environment)

CIS Microsoft SQL Server 2022 Benchmark v1.2.1

Friday, 15 May 2026



# Commvault Compliance with the Level 1 Controls of CIS Microsoft SQL Server 2022 Benchmark v1.2.1

The CIS Microsoft SQL Server 2022 Benchmark v1.2.1 provides prescriptive guidance for establishing a secure configuration posture to develop, deploy, assess, or secure solutions that incorporate Microsoft SQL Server 2022. The security controls in Level 1 provide a clear security benefit. The following table presents the compliance of the Commvault software with the Level 1 controls for Linux Environment.

Control		Support for the Control	Comments, if not supported
<b>1</b>	<b>Installation, Updates and Patches</b>		
1.1	Ensure Latest SQL Server Service Packs and Hotfixes are Installed	<b>Yes</b>	The latest version available for SQL server is installed during Commvault software installation.
1.2	Ensure Single-Function Member Servers are Used	<b>Yes, requires manual configuration</b>	The control is supported when required configurations are performed during the deployment of the Commvault software.
<b>2</b>	<b>Surface Area Reduction</b>		
2.1	Ensure 'Ad Hoc Distributed Queries' Server Configuration Option is set to '0'	<b>Yes</b>	
2.2	Ensure 'CLR Enabled' Server Configuration Option is set to '0'	<b>No</b>	The Commvault software allows only "safe CLR".
2.3	Ensure 'Cross DB Ownership Chaining' Server Configuration Option is set to '0'	<b>Yes</b>	
2.4	Ensure 'Database Mail XPs' Server Configuration Option is set to '0'	<b>Yes</b>	
2.5	Ensure 'Ole	<b>Yes</b>	

Control	Support for the Control	Comments, if not supported
Automation Procedures' Server Configuration Option is set to '0'		
2.6 Ensure 'Remote Access' Server Configuration Option is set to '0'	Yes	
2.7 Ensure 'Remote Admin Connections' Server Configuration Option is set to '0'	Yes	
2.8 Ensure 'Scan For Startup Procs' Server Configuration Option is set to '0'	Yes	
2.9 Ensure 'Trustworthy' Database Property is set to 'Off'	Yes	
2.10 Ensure Unnecessary SQL Server Protocols are set to 'Disabled'	N/A	These protocols are not applicable to a Linux environment. Please refer the link for more information, see <a href="#">Named Pipes Properties</a> .
2.11 Ensure SQL Server is configured to use non-standard ports	Yes	A default installation of SQL Server 2014 and later versions uses a dynamic port. For security reasons, you can configure a different port. For instructions, see <a href="#">Configure a Server to Listen on a Specific TCP Port</a> .
2.12 Ensure 'Hide Instance' option is	N/A	This feature is not applicable to an MS SQL server in a Linux environment. For

Control	Support for the Control	Comments, if not supported
set to 'Yes' for Production SQL Server instances		more information, see <a href="#">Editions and supported features of SQL Server 2019 on Linux</a> .
2.13 Ensure the 'sa' Login Account is set to 'Disabled'	Yes	
2.14 Ensure the 'sa' Login Account has been renamed	Yes	
2.15 Ensure 'AUTO_CLOSE' is set to 'OFF' on contained databases	Yes	
2.16 Ensure no login exists with the name 'sa'	Yes	
2.17 Ensure 'clr strict security' Server Configuration Option is set to '1'	Yes	
<b>3 Authentication and Authorization</b>		
3.1 Ensure 'Server Authentication' Property is set to 'Windows Authentication Mode'	N/A	The SQL server on Linux does not support Windows Authentication mode.
3.2 Ensure CONNECT	Yes	

Control	Support for the Control	Comments, if not supported
permissions on the 'guest' user is Revoked within all SQL Server databases.		
3.3 Ensure 'Orphaned Users' are Dropped From SQL Server Databases	Yes	
3.4 Ensure SQL Authentication is not used in contained databases	Yes	
3.5 Ensure the SQL Server's MSSQL Service Account is Not an Administrator	No	Primary interaction with the Commvault SQL Server instance is done using the sqladmin_cv account. The sqladmin_cv account has sysadmin role for the CommServe database and public role for all databases in the SQL instance. The sqlexec_cv user has public roles for all databases. The Commvault software requires these permissions. So, this control cannot be supported.
3.6 Ensure the SQL Server's SQLAgent Service Account is Not an Administrator	Yes	In SQL server (Linux) services use mssql account for both database and agent service.
3.7 Ensure the SQL Server's Full-Text Service Account is Not an Administrator	Yes	The Commvault software does not contain Full-Text Service Account. So, this control is not applicable.

Control		Support for the Control	Comments, if not supported
3.8	Ensure only the default permissions specified by Microsoft are granted to the public server role	Yes	
3.9	Ensure Windows BUILTIN groups are not SQL Logins	N/A	This control is disabled by default on a Linux environment. For more information, see <a href="#">SQL Server on Linux - Security and permissions guide</a> .
3.10	Ensure Windows local groups are not SQL Logins	Yes	
3.11	Ensure the public role in the msdb database is not granted access to SQL Agent proxies	Yes	
3.12	Ensure the 'SYSADMIN' Role is Limited to Administrative or Built-in Accounts	Yes, requires manual configuration	Ensure only approved administrative or built-in accounts retain the SYSADMIN role. Remove any non-approved accounts, while <b>preserving SYSADMIN access for Commvault (CV) accounts</b> .
3.13	Ensure membership in admin roles in MSDB database is limited	Yes	
<b>4</b>	<b>Password Policies</b>		

4.1	Ensure 'MUST_CHANGE' Option is set to 'ON' for All SQL Authenticated Logins	<b>No</b>	The passwords are created by Commvault are stored in registry in encrypted format, and it cannot be changed because process is not interactive.
4.2	Ensure 'CHECK_EXPIRATION' Option is set to 'ON' for All SQL Authenticated Logins Within the Sysadmin Role	<b>No</b>	The passwords are created by Commvault are stored in registry in encrypted format, and it cannot be changed because process is not interactive.
4.3	Ensure 'CHECK_POLICY' Option is set to 'ON' for All SQL Authenticated Logins	<b>No</b>	The passwords are created by Commvault are stored in registry in encrypted format, and it cannot be changed because process is not interactive.

Control		Support for the Control	Comments, if not supported
<b>5</b>	<b>Auditing and Logging</b>		
5.1	Ensure 'Maximum number of error log files' is set to greater than or equal to '12'	<b>Yes, requires manual configuration</b>	To apply this control , follow this documentation: <a href="#">How to configure the number of error logs for your SQL Server instance on Linux   Microsoft Community Hub.</a>
5.2	Ensure 'Default Trace Enabled' Server Configuration Option is set to '1'	<b>Yes</b>	
5.3	Ensure 'Login Auditing' is set to 'failed logins'	<b>Yes</b>	
5.4	Ensure 'SQL Server Audit' is set to capture both 'failed' and 'successful logins'	<b>Yes</b>	
<b>6</b>	<b>Application Development</b>		
6.1	Ensure Database and Application User Input is Sanitized	<b>Yes</b>	
6.2	Ensure 'CLR Assembly Permission Set' is set to 'SAFE_ACCESS' for All CLR Assemblies	<b>Yes</b>	MS SQL Server on a Linux environment does not allow UNSAFE/EXTERNAL ACCESS.

Control		Support for the Control	Comments, if not supported
<b>7</b>	<b>Encryption</b>		
7.1	Ensure 'Symmetric Key encryption algorithm' is set to 'AES_128' or higher in non-system databases	<b>Yes</b>	
7.2	Ensure Asymmetric Key Size is set to 'greater than or equal to 2048' in non-system databases	<b>Yes</b>	
<b>8</b>	<b>Appendix: Additional Considerations</b>		
8.1	Ensure 'SQL Server Browser Service' is configured correctly	<b>N/A</b>	This control is disabled by default on a Linux environment. For more information, see <a href="#">Editions and supported features of SQL Server 2019 on Linux</a> .

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