

CHG0030110 — [TITAN] High — legacy_eol on rds-sqlserver-2008r2-paststu

Severity	High	Priority	2 - High
Cloud	AWS	State	Assigned
Resource	rds-sqlserver-2008r2-paststu	Group	security_engineering
Resource type	AWS::RDS::DBInstance	Change type	Normal
Opened	2026-04-22 19:19:27	Closed	2026-04-22 19:19:27
CAB required	Yes	Close code	—

Security Finding

SQL Server 2008 R2 detected on RDS – past end-of-life AND past ESU (2022-07-12). Holds student records (FERPA). No further Microsoft or AWS patches will be issued. Fails FERPA §99.31, NIST 800-53 SI-2, ISO 27001 A.12.6.1, SOC 2 CC7.1.

Justification

High: SQL Server 2008 R2 detected on RDS – past end-of-life AND past ESU (2022-07-12). Holds student records (FERPA). No further Microsoft or AWS patches will be issued. Fails FERPA §99.31, NIST 800-53 SI-2, ISO 27001 A.12.6.1, SOC 2 CC7.1.

Implementation Plan

1. Pre-change snapshot captured by TITAN (auto-rollback available).
2. Execute fix command:
Upgrade to SQL Server 2022 on RDS or migrate to Aurora PostgreSQL. Compensating until cutover: VPC-only access, IAM DB auth, enhanced monitoring every 1s, database activity streams to S3.
3. TITAN FORGE verifies the fix was applied.
4. Post-change rescan by TITAN SCOUT – finding must no longer appear.
5. Close ticket with Successful close_code.

Risk & Impact Analysis

Risk level: MEDIUM-HIGH risk – misconfiguration with realistic exploit path.
 Business impact if unremediated: Increases attack surface; auditor finding likely.
 Scope: single resource (rds-sqlserver-2008r2-paststu).
 Blast radius: change is idempotent; pre-change snapshot captured by TITAN; auto-rollback available if rescan fails.
 Finding detail: SQL Server 2008 R2 detected on RDS – past end-of-life AND past ESU (2022-07-12). Holds student records (FERPA). No further Microsoft or AWS patches will be issued. Fails FERPA §99.31, NIST 800-53 SI-2

Backout / Rollback Plan

1. TITAN auto-captured snapshot of rds-sqlserver-2008r2-paststu before change (baseline: titan-legacy-demo-20260422T201927Z).
2. If post-change rescan still shows the finding OR a new issue appears within 15 min:
 - a. TITAN FORGE fires rollback automatically using stored snapshot.
 - b. Incident reopens and escalates to on-call.
3. Manual rollback command path (human override) is documented in close notes.

Test Plan

1. TITAN SCOUT rescans rds-sqlserver-2008r2-pastssu immediately after FORGE applies the change.
2. PASS criteria: the specific finding no longer appears in SCOUT results.
3. PASS criteria: no new CRITICAL or HIGH findings introduced by the change.
4. Automated compliance check: HIPAA/PCI/SOC2 controls re-evaluated.
5. If any check fails, backout plan fires automatically.

Recommended Fix Command

Upgrade to SQL Server 2022 on RDS or migrate to Aurora PostgreSQL. Compensating until cutover: VPC-only access, IAM DB auth, enhanced monitoring every 1s, database activity streams to S3.

Compliance Mapping

CIS Benchmark, SOC 2 CC6.1

AI Close Notes

TITAN CONDUIT opened this high legacy_eol change request and assigned it to the security_engineering group for review. STATE: ASSIGNED – awaiting human action. Per TITAN AI policy (and Kazmi rule, 2026-04-22), configuration changes are NEVER auto-applied and change tickets are NEVER auto-closed by TITAN. The assigned group reviews the recommended fix, schedules a CAB-approved change window, applies the fix manually, validates via SCOUT rescan, and closes this ticket themselves. TITAN documents and routes – the human owns the change from here.

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