

CHG0030104 — [TITAN] High — database on rds-pci-card-data

Severity	High	Priority	2 - High
Cloud	AWS	State	Assigned
Resource	rds-pci-card-data	Group	database_operations
Resource type	AWS::RDS::DBInstance	Change type	Normal
Opened	2026-04-22 19:55:22	Closed	2026-04-22 19:55:22
CAB required	Yes	Close code	—

Security Finding

PCI card-data RDS instance has 'publicly_accessible=true' set – violates PCI DSS 1.3.4 (no direct public access to CHD). TLS also disabled (rds.force_ssl=0).

Justification

High: PCI card-data RDS instance has 'publicly_accessible=true' set – violates PCI DSS 1.3.4 (no direct public access to CHD). TLS also disabled (rds.force_ssl=0).

Implementation Plan

1. Pre-change snapshot captured by TITAN (auto-rollback available).
2. Execute fix command:

```
aws rds modify-db-instance --db-instance-identifier rds-pci-card-data --no-publicly-accessible --apply-immediately && aws rds modify-db-parameter-group --db-parameter-group-name pci-card-pg --parameters "ParameterName=rds.force_ssl,ParameterValue=1,ApplyMethod=immediate"
```
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-pci-card-data).
Blast radius: change is idempotent; pre-change snapshot captured by TITAN; auto-rollback available if rescan fails.
Finding detail: PCI card-data RDS instance has 'publicly_accessible=true' set – violates PCI DSS 1.3.4 (no direct public access to CHD). TLS also disabled (rds.force_ssl=0).

Backout / Rollback Plan

1. TITAN auto-captured snapshot of rds-pci-card-data before change (baseline: titan-banking-demo-20260422T201922Z).
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-pci-card-data 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

```
aws rds modify-db-instance --db-instance-identifier rds-pci-card-data --no-publicly-accessible
--apply-immediately && aws rds modify-db-parameter-group --db-parameter-group-name pci-card-pg
--parameters "ParameterName=rds.force_ssl,ParameterValue=1,ApplyMethod=immediate"
```

Compliance Mapping

HIPAA §164.312(e)(1), PCI DSS 3.4, SOC 2 CC6.1, CIS 1.x IAM

AI Close Notes

TITAN CONDUIT opened this high database change request and assigned it to the banking_compliance 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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