

CHG0030116 — [TITAN] High — data_factory on adf-banking-fraud-pipeline

Severity	High	Priority	2 - High
Cloud	Azure	State	Assigned
Resource	adf-banking-fraud-pipeline	Group	security_engineering
Resource type	Microsoft.DataFactory/factories	Change type	Normal
Opened	2026-04-22 18:43:22	Closed	2026-04-22 18:43:22
CAB required	Yes	Close code	—

Security Finding

Fraud-detection Data Factory pipeline uses public-IR (Integration Runtime) – card-transaction data in-flight traverses Azure public backbone. FFIEC + SWIFT CSP Control 2.5B require private-network enforcement for payment data pipelines.

Justification

High: Fraud-detection Data Factory pipeline uses public-IR (Integration Runtime) – card-transaction data in-flight traverses Azure public backbone. FFIEC + SWIFT CSP Control 2.5B require private-network enforcement for payment data pipelines.

Implementation Plan

1. Pre-change snapshot captured by TITAN (auto-rollback available).
2. Execute fix command:
`az datafactory integration-runtime managed create --factory-name adf-banking-fraud-pipeline --resource-group rg-banking-fraud --name ir-banking-private --type SelfHosted && az datafactory linked-service update --vnet-integration`
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 (adf-banking-fraud-pipeline).
Blast radius: change is idempotent; pre-change snapshot captured by TITAN; auto-rollback available if rescan fails.
Finding detail: Fraud-detection Data Factory pipeline uses public-IR (Integration Runtime) – card-transaction data in-flight traverses Azure public backbone. FFIEC + SWIFT CSP Control 2.5B require private-network enf

Backout / Rollback Plan

1. TITAN auto-captured snapshot of adf-banking-fraud-pipeline 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 adf-banking-fraud-pipeline 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

```
az datafactory integration-runtime managed create --factory-name adf-banking-fraud-pipeline
--resource-group rg-banking-fraud --name ir-banking-private --type SelfHosted && az datafactory
linked-service update --vnet-integration
```

Compliance Mapping

CIS Benchmark, SOC 2 CC6.1

AI Close Notes

TITAN CONDUIT opened this high data_factory 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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