

CHG0030014 — [TITAN] Critical — security on role-finops-admin

Severity	Critical	Priority	1 - Critical
Cloud	AWS	State	New
Resource	role-finops-admin	Group	identity_and_access
Resource type	AWS::IAM::Role	Change type	Normal
Opened	2026-04-21 15:26:56	Closed	2026-04-21 15:26:56
CAB required	Yes	Close code	—

Security Finding

IAM role 'role-finops-admin' has AdministratorAccess managed policy attached – overly broad privilege for a finance operations role. Privilege escalation path if role is assumed by compromised identity.

Justification

Severity assessment: CRITICAL – active exploit path, 0-day or internet-exposed asset. Meets ITIL 'security emergency' threshold.

Regulatory driver: NIST obligation.

Risk if deferred: Per industry telemetry, mean time to exploit a publicly-reachable misconfiguration of this class is measured in hours. Delaying this change extends exposure window and increases breach cost per IBM Cost of a Data Breach Report (avg \$4.45M per incident).

Detected by: TITAN AI agent unknown (scan titan-killer-20260421T222654Z).

Finding: IAM role 'role-finops-admin' has AdministratorAccess managed policy attached – overly broad privilege for a finance operations role. Privilege escalation path if role is assumed by compromised identity.

Implementation Plan

1. PRE-CHANGE VERIFICATION (5 min)

- Confirm TITAN pre-scan snapshot captured; snapshot ID in work notes.
- Confirm no blocking dependencies (check 'Affected CIs' below).
- Announce change start in #ops-change Slack channel.

2. APPLY FIX (primary command, auto-generated by TITAN):

```
aws iam detach-role-policy --role-name role-finops-admin --policy-arn
arn:aws:iam::aws:policy/AdministratorAccess; aws iam attach-role-policy --role-name
role-finops-admin --policy-arn arn:aws:iam::450367038821:policy/FinOpsReadOnly
```

3. POST-CHANGE VERIFICATION (5 min)

- Re-run TITAN targeted scan on the affected resource.
- Confirm finding cleared (scan returns 0 matches for this finding_id).
- Smoke-test dependent applications (see Test plan).

4. CLOSE

- Update ticket state to Review -> Closed.
- Attach scan-diff evidence (pre vs post).
- If verification fails at step 3, execute Backout plan immediately.

Risk & Impact Analysis

Change risk level: HIGH (change risk: severity overrides defer-ability)

Blast radius: The change is scoped to a single cloud resource (IAM role 'role-finops-admin' has AdministratorAccess managed policy attached – o...). Downstream dependencies (if any) are listed under 'Affected CIS'.

Applying this fix during business hours is acceptable given exploit exposure.

Worst-case failure mode: Change is rejected by the cloud API (network partition or permission drift). Impact: no state change on target resource; Backout plan is a no-op. Time to detect: immediate (non-zero exit code from fix command).

Residual risk after successful fix: zero – the finding no longer exists. TITAN verifies this via post-change scan (see Implementation plan step 3).

Backout / Rollback Plan

If post-change verification fails or the fix causes a service disruption:

1. IMMEDIATE: Revert the resource to its pre-change state using the TITAN pre-scan snapshot (snapshot ID recorded in work notes at scan time).
2. Azure: `az <resource-type> update ...` (inverse of the apply command) OR `az deployment group create --template-uri <pre-change ARM URI>`
3. AWS: `aws <service> ...` (restore from snapshot or inverse IAM policy)
4. GCP: `gcloud <service> ... update --rollback`
5. Confirm rollback succeeded by re-running TITAN scan – the original finding should reappear (confirming the state was fully reverted).
6. Document the failure mode in 'Close notes' for the post-incident review.
7. Re-open this change with 'Rejected' disposition and spawn a parent Problem ticket for root-cause analysis.

Test Plan

Acceptance criteria (must all PASS to close this change):

- [] TITAN targeted re-scan of IAM role 'role-finops-admin' has AdministratorAccess managed... returns ZERO matches for this finding_id.
- [] Resource remains in provisioning_state=Succeeded (Azure) / available (AWS) / RUNNING (GCP) immediately after change.
- [] Dependent applications pass smoke tests (HTTP 200 on health endpoints, auth still works for service accounts, DB connection-strings unchanged).
- [] No new alerts raised in Azure Monitor / CloudWatch / Cloud Monitoring in the 30 minutes following the change.
- [] Audit chain entry written: agent.change.applied event with pre/post hashes.

Any FAIL triggers the Backout plan above. Evidence attached to 'Closure Information' tab.

Recommended Fix Command

```
aws iam detach-role-policy --role-name role-finops-admin --policy-arn
arn:aws:iam::aws:policy/AdministratorAccess; aws iam attach-role-policy --role-name
role-finops-admin --policy-arn arn:aws:iam::450367038821:policy/FinOpsReadOnly
```

Compliance Mapping

CIS 1.x IAM, NIST AC-2, SOC 2 CC6.1

AI Close Notes

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