

# Cloud Environment Security Gap Analysis Sample

## 1. Introduction

This document provides a sample template for conducting a security gap analysis in a cloud environment. It outlines key security controls, current state, target state, and associated gaps for review and remediation planning.

## 2. Gap Analysis Summary Table

| Security Domain              | Control                                      | Current State                       | Target State                            | Gap                   | Recommendation                                  |
|------------------------------|--|-------------------------------------|---|-----------------------|---|
| Identity & Access Management | Multi-Factor Authentication (MFA) for Admins | MFA enabled for some admin accounts | MFA enabled for all admin accounts      | Partial coverage      | Enable MFA for all privileged accounts          |
| Data Protection              | Data Encryption At Rest                      | Data is stored unencrypted          | All sensitive data is encrypted at rest | No encryption present | Implement encryption for storage services       |
| Network Security             | Restrict Inbound Traffic                     | All IPs allowed                     | Only whitelisted IPs allowed            | Open access           | Update security group rules to restrict traffic |
| Monitoring & Logging         | Centralized Log Collection                   | Logs stored locally only            | All logs centralized & retained 90 days | Non-centralized       | Implement centralized logging solution          |

## 3. Key Findings

- Multi-factor authentication is not enforced for all privileged users.
- Sensitive data is present without encryption at rest.
- Network security controls are weak due to overly permissive rules.
- Log collection is not centralized, risking gaps in incident detection.

## 4. Recommendations

- Mandate and enforce MFA for all users with admin access.
- Encrypt all sensitive data at rest using managed keys.
- Review and restrict inbound/outbound security group and firewall rules.
- Deploy centralized log aggregation and retain logs as per policy.

## 5. Next Steps

- Assign remediation actions to responsible teams.
- Set timelines for implementation and review progress.
- Schedule follow-up gap analysis to verify closure of findings.