Cybersecurity Job Simulation – Incident Report (TATA IAM)

This report simulates a real-world SOC investigation approach based on practical analysis.

Scenario Overview

As part of the cybersecurity team, I worked as an IAM Developer supporting TechCorp Enterprises, focusing on evaluating IAM readiness and designing secure access control mechanisms aligned with business operations.

Objective

To assess IAM maturity, identify access control gaps, and design a structured IAM framework ensuring secure and efficient access to enterprise systems.

Tools & Concepts Used

IAM, RBAC, Least Privilege Principle, Authentication & Authorization, Access Governance

Steps Performed

- Explored IAM fundamentals and enterprise use cases
- Analysed access-related risk scenarios
- Evaluated IAM readiness using a structured checklist
- Designed tailored IAM solutions
- Planned secure IAM platform integration

IAM Architecture Overview

User → Authentication → IAM System → Role Assignment → Resource Access

Flow: User → Authentication → IAM System → Role Assignment → Resource Access

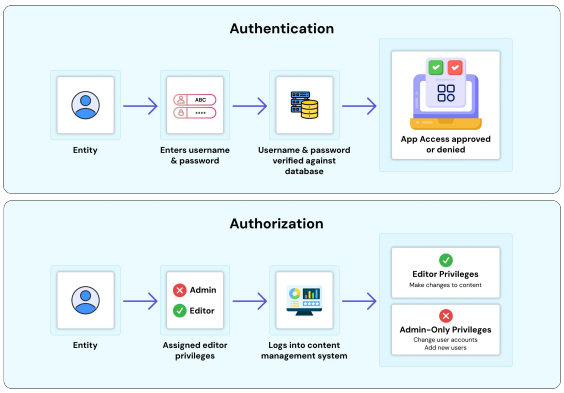

Figure: IAM workflow showing authentication, authorization, and role-based access to enterprise resources.

Findings & Learning

Key Findings

- No centralized identity control leads to inconsistent access
- Excess permissions increase insider threat risk
- Lack of IAM structure affects visibility and control

Security Risks Identified

- Unauthorized access due to improper roles
- Insider threats from over-privileged accounts
- Weak authentication increasing breach probability

Solution / Response

- Implemented RBAC for structured access control
- Enforced least privilege principle
- Suggested centralized IAM platform
- Recommended periodic access reviews & monitoring

Real-World Insight

Many major breaches happen due to excessive access permissions, where users have more access than required—something strong IAM controls can prevent.

What I Learned

- IAM is a core pillar of cybersecurity
- Access control directly impacts attack prevention
- Balancing security and usability is key
- IAM requires both technical and business alignment

Report Prepared By
Shaik Abdul Rehman

Role:
Aspiring SOC Analyst | IAM Enthusiast

Project:
TATA Cybersecurity Job Simulation (Forage)

Date:
August 2025