

# Incident Report – Brute Force Detection

## Objective

To investigate suspicious login activity, identify brute force attacks, and demonstrate how SIEM capabilities support both incident response and compliance requirements.

## Investigation Steps

Log Source Integration	Collected authentication logs from Microsoft 365 / Active Directory. Ingested into Microsoft Sentinel.
Detection Query (KQL)	<pre>SecurityEvent WHERE EventID == 4625   summarize FailedLogins = count() by Account, IPAddress, bin(TimeGenerated, 5m)   WHERE FailedLogins &gt; 10</pre>
Incident Response Actions	Blocked suspicious IPs. Forced password resets and enforced MFA. Documented the incident in ticketing system.

## Compliance Mapping

Framework	Control Reference	Relevance
SOC 2	CC6.1	Logical access monitoring (failed login attempts).
SOC 2	CC7.2	Incident response actions (blocking IPs, MFA reset).
ISO 27001	A.9.4.2	Secure log-on procedures.
ISO 27001	A.12.4.1	Event logging and monitoring.

## Next Steps

- Automate detection using Sentinel Analytics Rules.
- Link alerts to Incident Response Playbook (see Project 2).
- Expand detection to include VPN and endpoint log sources.
- Maintain evidence for SOC 2 / ISO 27001 audits.