

SECURITY INCIDENT REPORT

Report Reference:	IR-2025-09-18-001 (Lab Simulation)
Incident Date:	18 September 2025
Incident Time:	14:15 UTC
Report Date:	18 September 2025
Prepared by:	Chieb Mohamed Anouar (SOC Analyst)
Environment:	LAB ENVIRONMENT - SIMULATED

1. EXECUTIVE SUMMARY

On **18 September 2025** at **14:15 UTC**, the Security Information and Event Management (SIEM) system generated a **HIGH** severity alert regarding a simulated brute-force attack attempt against a lab enterprise web server. The attack, originating from IP address **203.0.113.45**, was automatically blocked by the firewall. This simulation demonstrates detection and response capabilities in a controlled lab environment. No real production assets were affected.

2. SIEM TOOL SCREENSHOT

SIEM DASHBOARD (CRITICAL ALERTS)

```
[X] HIGH ALERT: Brute Force Attack Detected
├─ Timestamp: 2025-09-18 14:15:23 UTC
├─ Rule: Multiple Failed Logins - Brute Force
├─ Source IP: 203.0.113.45
├─ Source Port: 54321
├─ Destination: 192.168.1.100:443 (Simulated Enterprise Web Server)
├─ Protocol: TCP
├─ Attempts: 150 failures in 5 minutes
├─ Targeted: admin, administrator, root, user, guest
```

Targeted Accounts: admin, administrator, root, user, guest

Status: ✔ Blocked (Firewall at 14:20 UTC)

[] INFO: Port Scan Detected from 10.0.0.25 (Lab Network)

[] LOW: Failed Login - Simulated User jdoe

3. EVENT TIMELINE

14:10:00	Start of failed login attempt sequence (simulated attack)	Web Server Logs
14:15:23	SIEM alert triggered (threshold of 150 failures reached)	SIEM
14:18:00	Alert acknowledged and verified by Chieb Mohamed Anouar	SOC Analyst
14:20:00	Block rule implemented on firewall for IP 203.0.113.45	Network Team (Simulated)
14:22:00	Web server logs isolated for forensic analysis	SOC Analyst
14:30:00	Incident documentation completed for portfolio	Chieb Mohamed Anouar

4. AFFECTED ASSETS (LAB ENVIRONMENT)

Asset	Role	IP Address	Environment
WEB-SRV-LAB-01	Simulated Enterprise Web Server	192.168.1.100	Isolated Lab Network

⚠ All assets are part of a controlled cybersecurity lab environment. No production systems were involved.

5. INDICATORS OF COMPROMISE (IOCs)

Malicious IP Address

203.0.113.45

Source Network

External Untrusted Network

Attack Time Window

14:10 - 14:15 UTC

Targeted Usernames

Common default administrative usernames targeted

MITRE ATT&CK MAPPING

Tactic	Technique	Sub-technique
Credential Access TA0006	Brute Force T1110	Password Guessing T1110.001

8. RISK ASSESSMENT

Severity HIGH	Impact Medium	Likelihood High
-------------------------	-------------------------	---------------------------

OVERALL RISK LEVEL: HIGH

6. ACTIONS TAKEN

- Immediate Containment:** IP address **203.0.113.45** was added to the firewall blocklist within 5 minutes of alert verification.
- Forensic Analysis:** Web server logs were secured and analyzed to confirm no successful authentication before blocking.
- Enhanced Monitoring:** Implemented additional logging and alerting rules for similar brute-force patterns.
- Incident Documentation:** Complete timeline and technical details documented for portfolio and learning purposes.

7. RECOMMENDATIONS

- Implement account lockout** after 5 failed attempts within 10 minutes to prevent brute-force attacks.
- Enable Multi-Factor Authentication (MFA)** for all privileged accounts and remote access.
- Deploy Web Application Firewall (WAF)** to filter and block malicious traffic patterns.
- Enable geo-blocking** for high-risk regions to reduce attack surface.
- Implement centralized log retention policy** (90+ days) for compliance and forensic analysis.
- Conduct regular brute-force simulation exercises** to test detection and response capabilities.