# **Incident Response Report**

### **Executive Summary**

- *Overview of the Incident*: Multiple logs were analyzed to identify potential security incidents. The analysis revealed several indicators of compromise (IoCs) suggesting unauthorized system access and possible malicious activity.
- *Impact Assessment*: The incident may have resulted in unauthorized data access or manipulation, with a moderate impact on system integrity.
- **Actions Taken**: Containment measures were implemented to prevent further unauthorized access. Eradication steps are in progress to remove any malware or backdoors. Recovery processes are ongoing to restore system integrity.
- Current Status: The incident is currently under investigation, with ongoing efforts to fully contain and eradicate the threat.

#### Introduction

- *Purpose of the Report*: To provide a comprehensive analysis of the identified security incident and outline response actions.
- **Scope**: The report covers the analysis of multiple system logs and the subsequent incident response.
- Audience: This report is intended for technical and non-technical stakeholders requiring an understanding
  of the incident and response actions.

### **Incident Description**

- Timeline of Events:
  - 1. Initial log analysis (Date: 2023-02-20)
  - 2. Identification of IoCs (Date: 2023-02-20)
  - 3. Containment measures implemented (Date: 2023-02-21)
  - 4. Ongoing eradication and recovery (Date: 2023-02-22 Present)
- **Detection Method**: Automated log analysis tool flagged suspicious activity.
- Affected Systems and Data: Multiple system logs indicated potential unauthorized access to sensitive data.
- *Type of Incident*: Possible unauthorized system access and data manipulation.

### **Detection and Analysis**

- Logs Collected: System logs from various sources (Windows, Linux, Email).
- Analysis Procedures: Automated log analysis, manual review, and correlation of events.
- *Findings*: + IoCs in Windows system logs (Event ID 4624, Severity Value 2). + Suspicious email headers (missing X-Mailer, Content-Transfer-Encoding). + Potential data manipulation in Linux syscheck logs (event\_modified).
- Correlation of Events: The presence of IoCs across different log sources suggests a coordinated attack.

## **Response Actions**

- Containment Measures: Immediate isolation of affected systems from the network.
- Eradication Steps: Ongoing removal of malware and backdoors.
- **Recovery Process**: System integrity restoration and verification.
- Communication: Regular updates to stakeholders on incident status.

## **Root Cause Analysis**

- Underlying Cause: Insufficient system hardening and potential phishing attack.
- Contributing Factors: Lack of timely system updates and inadequate user training.

### **Impact Assessment**

- Business Impact: Moderate, with potential data breaches and system downtime.
- Data Loss or Exposure: Possible, with sensitive data potentially accessed.
- Regulatory Compliance Implications: Under investigation, with potential non-compliance.

#### **Lessons Learned**

- What Worked Well: Timely detection and response actions.
- Areas for Improvement: Enhanced system hardening, user training, and incident response plan updates.
- Response Effectiveness: Effective containment and ongoing eradication efforts.

#### Recommendations

- Preventive Measures: Implement robust system hardening, enhance user training.
- Security Enhancements: Regular system updates, advanced threat detection tools.
- Training Needs: Incident response training for IT staff, security awareness for users.

#### Conclusion

- **Summary of Incident and Response**: A potential security incident was identified through log analysis, with swift containment and ongoing eradication efforts.
- *Next Steps*: Completion of the recovery process, implementation of recommended preventive measures, and a thorough review of the incident response plan.

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