

# Incident Response Policy for Network Security

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## 1. Purpose

This policy establishes a structured approach to detecting, responding to, mitigating, and recovering from security incidents affecting the corporate network. It ensures a swift and effective response to minimize damage, reduce recovery time, and prevent future occurrences. The policy is reviewed quarterly or as needed based on emerging threats to ensure its effectiveness.

## 2. Scope

This policy applies to all employees, contractors, third-party vendors, and any authorized users who:

- Access corporate networks, systems, or data.
- Use personal or corporate devices to connect to internal or cloud-based company resources.
- Are responsible for managing, monitoring, or securing IT infrastructure and applications.

This policy covers all network-related security incidents, including but not limited to unauthorized access, malware infections, data breaches, denial-of-service attacks, and insider threats.

## 3. Incident Classification

Security incidents are classified into four categories based on their severity:

### 3.1. Low-Risk Incidents (Tier 1)

- Minor security violations with no direct impact on operations
- Examples:
  - Isolated failed login attempts below threshold
  - Minor policy violations (e.g., accessing non-business websites)
  - Attempted access to non-sensitive blocked resources
  - Isolated malware detections that were successfully quarantined
- Response Time: Within 24 hours

### **3.2. Medium-Risk Incidents (Tier 2)**

- Potential threats that could escalate if not addressed promptly
- Examples:
  - Multiple failed login attempts from the same source
  - Unauthorized device connections to the network
  - Suspicious network traffic patterns or data exfiltration attempts
  - Detection of potentially unwanted applications
  - Non-critical system performance issues indicating possible security problems
- Response Time: Within 8 hours

### **3.3. High-Risk Incidents (Tier 3)**

- Direct threats to network security requiring immediate attention
- Examples:
  - Confirmed malware infections not automatically remediate
  - Compromised user credentials or privileged accounts
  - Unauthorized access to sensitive data
  - Targeted phishing attacks against specific employees
  - Successful exploitation of system vulnerabilities
- Response Time: Within 2 hours

### **3.4. Critical Incidents (Tier 4)**

- Major security breaches causing operational disruptions, financial loss, or regulatory violations
- Examples:
  - Ransomware attacks affecting multiple systems
  - Advanced Persistent Threats (APTs) detected within the network
  - Major data breaches involving customer or sensitive corporate information
  - Widespread system outages due to security incidents

- Coordinated cyber attacks on the organization
- Response Time: Within 15 minutes

## 4. Incident Response Team Structure

### 4.1. Core Incident Response Team

- **Incident Response Manager:** Oversees the entire incident response process
- **Network Security Specialists:** Handle technical investigation and containment
- **System Administrators:** Assist with system recovery and technical remediation
- **Forensic Analysts:** Perform detailed analysis of incidents and evidence collection

### 4.2. Extended Response Team (for High-Risk and Critical Incidents)

- **Chief Information Security Officer (CISO):** Strategic oversight and stakeholder communication
- **Legal Counsel:** Handles legal implications and regulatory compliance
- **Public Relations:** Manages external communications when needed
- **Human Resources:** Addresses incidents involving employee misconduct
- **Executive Leadership:** Informed and involved in critical incident decisions

## 5. Incident Response Phases

### 5.1. Identification

- Users must report any suspected security incidents immediately to the IT Security Team.
- Automated monitoring tools, including AI-driven threat detection, will log and detect unusual network activities.
- Security alerts from the following sources will be analyzed:
  - Intrusion Detection/Prevention Systems (IDS/IPS)
  - Security Information and Event Management (SIEM) system
  - Firewall and network device logs
  - Endpoint Detection and Response (EDR) solutions
  - Data Loss Prevention (DLP) alerts

- Cloud security platforms

## **5.2. Containment**

### **5.2.1. Immediate Containment**

- For minor incidents, network access may be temporarily restricted to prevent escalation.
- High-risk and critical incidents require immediate isolation of affected devices, accounts, or services.
- Unauthorized access attempts will trigger automatic session termination and user verification.
- Potentially compromised accounts will be temporarily locked and require identity verification.

### **5.2.2. Short-term Containment**

- Affected systems will be isolated using network segmentation or removal from the network.
- Temporary security controls will be implemented to prevent incident spread.
- Access privileges will be adjusted based on the principle of least privilege.

### **5.2.3. Long-term Containment**

- Patching and securing systems before returning to production.
- Implementation of additional monitoring for affected systems.
- Hardening of systems based on the attack vector identified.

## **5.3. Eradication**

- IT Security will analyze the root cause through forensic investigation.
- Malware and unauthorized software will be removed using approved security tools.
- Compromised credentials will be reset and additional authentication factors may be required.
- Vulnerability scanning and penetration testing will be conducted to verify remediation.

- For network-based attacks, firewall rules and intrusion prevention system (IPS) policies will be updated.
- Advanced threats may require:
  - Complete system reimaging
  - Application of security patches and updates
  - Removal and replacement of compromised hardware if necessary

#### **5.4. Recovery**

- Affected systems will be restored from known-good backups when necessary.
- Restoration priority will be based on business criticality as defined in the Business Continuity Plan.
- Before reinstating systems, the following must occur:
  - Security patches must be applied
  - Passwords and access credentials must be reset
  - Multi-factor authentication must be enforced
  - Security configurations must be verified
- Post-recovery verification will include:
  - Security scans to confirm threat removal
  - Functionality testing to ensure system operation
  - Continuous monitoring for 72 hours minimum after recovery
- Employees involved in an incident may be required to undergo security training if human error contributed to the breach.

#### **5.5. Lessons Learned & Reporting**




- A detailed post-incident report will be compiled within 5 business days, including:
  - Incident timeline and chronology
  - Attack vectors and methodology
  - Impact assessment (operational, financial, reputational)
  - Effectiveness of the response

- Recommendations for prevention of similar incidents
- Security posture improvements will be implemented based on findings.
- Existing controls will be evaluated and enhanced as necessary.
- If necessary, legal and compliance teams will be engaged for regulatory reporting.
- Annual tabletop exercises will be conducted to simulate different attack scenarios.

## **6. Incident Reporting & Escalation**

### **6.1. Employee Responsibilities**

All users must report security incidents via:

-  Email: security-report@[companydomain].com
-  Phone: [Company Security Hotline]
-  Incident Reporting Portal: [Company IT Security Portal]
- In person to IT Security personnel for urgent matters

When reporting, users should provide:

- Date and time of the incident
- Systems, data, or applications involved
- Description of the unusual behavior or security concern
- Any error messages or suspicious communications received
- Actions taken after discovering the incident

Failure to report security incidents in a timely manner may result in disciplinary action.

### **6.2. IT Security Team Responsibilities**

- Acknowledge receipt of all security incident reports within 30 minutes.
- Provide initial response within 15 minutes for critical incidents and 2 hours for high-risk incidents.
- Maintain comprehensive incident response logs in the security incident management system.
- Coordinate with external security firms when specialized expertise is required.

- Communicate incident status updates to stakeholders based on the communication plan.
- Document all investigative steps, findings, and remediation actions.

### **6.3. Escalation Procedures**

- Incidents will be escalated based on the following criteria:
  - If the incident cannot be contained within 4 hours
  - If the incident affects critical business systems
  - If the incident involves sensitive data or regulatory concerns
  - If the incident impacts more than 10% of corporate users
  - If the incident appears to be part of a targeted attack

#### **6.3.1. Escalation Path**

1. Tier 1: IT Security Analyst
2. Tier 2: IT Security Manager
3. Tier 3: CISO or IT Director
4. Tier 4: Executive Leadership and Legal Team

#### **6.3.2. External Escalation**

- Law enforcement involvement will be determined by the CISO in consultation with legal counsel.
- Regulatory notifications will be handled by the compliance team within required timeframes.
- Customer notifications will follow the Data Breach Notification Procedure when applicable.

#### **6.3.3. Communication Protocols**

- Employees and key stakeholders will be notified through:
  - Company-wide email for general awareness
  - SMS alerts for immediate concerns
  - Internal security dashboard for ongoing updates

- Emergency notification system for critical incidents

## **7. Documentation & Evidence Handling**

### **7.1. Required Documentation**

- All incidents must be documented in the Incident Response Management System.
- Documentation must include:
  - Incident ID and classification
  - Discovery and reporting information
  - Systems and data affected
  - Remediation actions taken
  - Resolution details and timeline
  - Evidence collected and preserved

### **7.2. Evidence Collection and Preservation**

- Evidence must be collected following digital forensic best practices:
  - Maintain chain of custody documentation
  - Create forensic images when appropriate
  - Capture logs, memory dumps, and network captures as needed
  - Document all evidence collection steps
- Evidence retention periods:
  - Low-risk incidents: 3 months
  - Medium-risk incidents: 1 year
  - High-risk and critical incidents: 7 years or as required by legal/regulatory requirements

## **8. Enforcement & Compliance**

### **8.1. Policy Compliance**

- Quarterly security awareness training will include incident response procedures.
- Annual incident response drills and tabletop exercises will be conducted for all IT staff.



- Simulation exercises for phishing and social engineering will be performed regularly.
- Non-compliance with this policy may result in:
  - Verbal warning for first minor offense
  - Written warning for repeated offenses
  - Disciplinary action up to and including termination for serious violations

## **8.2. Policy Governance**

- The IT Security Team will review and update this policy quarterly.
- All changes to this policy must be approved by the CISO and IT Governance Committee.
- Exemptions to policy requirements must be documented and approved by the CISO.

## **9. Integration with Other Policies**

This policy works in conjunction with:

- Business Continuity Plan
- Disaster Recovery Plan
- Data Classification Policy
- BYOD Security Policy
- Acceptable Use Policy
- Data Breach Notification Procedure

## **10. Policy Acknowledgment & Agreement**

I, [Employee Name], acknowledge that I have read, understood, and agree to comply with the Network Security Incident Response Policy.

Employee Signature: \_\_\_\_\_ Date: \_\_\_\_\_