Automate Response

Congratulations on selecting IncidentResponse.com to retrieve your custom incident response playbook guide. This guide has been created especially for you for use in within your security response team. We hope you find it valuable and ask that you share it with the rest of your organization so you can collectively be successful in managing incidents and reducing risk throughout the business.

Your playbook overview - “Unauthorized Access”

Incident Response: A Top Priority in Security Management Programs

In the April 2014, U.S. Government Accountability Office reported (GAO-14-354) it’s noted that “major federal agencies did not consistently demonstrate that they are effectively responding to cyber incidents (a security breach of a computerized system and information).” The GAO projects that these agencies did not completely document actions taken in response to detected incidents. While the agencies identified the scope of an incident, they frequently did not demonstrate that they had determined the impact of an incident, nor did they consistently demonstrate how they had handled other key activities, such as whether preventive actions to prevent the reoccurrence of an incident were taken. The GAO notes, “without complete policies, plans, and procedures, along with appropriate oversight of response activities, agencies face reduced assurance that they can effectively respond to cyber incidents.”

Did you know?

1. In 2014, incidents increased by 78% since 2013.
2. 1,023,108,627 records were breached in 2014.
3. 54% of the breaches consisted of Identity Theft.
4. $3.5 million is the average cost of a breach for a company.
5. Companies experience an average of 10 unauthorized access incidents per month.
6. Malicious insiders and criminal attacks are the top causes for breaches.

1. Source: Gemalto - Breach Level Index
2. Source: Ponemon 2014 Cost of a Data Breach
3. Source: GAO-14-354, p.2
What is an incident response playbook? According to NIST Special Publication 800-61, an incident response process contains four main phases: preparation, detection and analysis, containment/eradication/recovery, and post-incident activity. Descriptions for each are included below:

Prepare
The initial phase where organizations will perform preparatory measures to ensure that they can respond effectively to incidents if and when they are uncovered.

Detect & Analyze
The second phase, where organizations should strive to detect and validate incidents rapidly because infections can spread through an organization within a matter of minutes. Early detection can help an organization minimize the number of infected systems, which will lessen the magnitude of the recovery effort and the amount of damage the organization sustains as a result of the incident.

Contain, Eradicate & Recover
The third phase, containment, has two major components: stopping the spread of the attack and preventing further damage to systems. It is important for an organization to decide which methods of containment to employ early in the response. Organizations should have strategies and procedures in place for making containment-related decisions that reflect the level of risk acceptable to the organization.

Post-Incident Handling
Because the handling of malware incidents can be extremely expensive, it is particularly important for organizations to conduct a robust assessment of lessons learned after major malware incidents to prevent similar incidents from occurring.

Unauthorized Access
You’ve selected the "Unauthorized Access" playbook. On the pages that follow, you will find your incident response playbook details broken down by the NIST incident handling categories.

To view your playbook online, visit https://incidentresponse.com/playbooks/unauthorized-access
Determine Core Ops Team & Define Roles

Review & Maintain Timeline

Interviews

User
Manager
Physical Security
Key Stakeholders

Internal Path
External Path

Document

Next Step
Public or personnel safety affected
Customers are affected by this incident
Products goods/services are affected by this attack
This act is being launched by known entities
Worst-case business impact if unable to mitigate this attack
Identify vulnerable systems with critical information that may be targeted and prioritize by level of severity
Identify business operations that will be affected
Identify business implications
Identify what system/accounts can be restricted or taken offline to protect critical information
Identify additional technical risks
Identify additional business risk due to the severity of the Unauthorized Access
System on internal knowledge of this incident
System on external knowledge of this incident
Identify additional business risks due to the severity of the Unauthorized Access

Identify business operations that will be affected

Define Risk Factors

Custom Indicators

Custom Factors

Determine Patch Methods
Log Collection
Evidence Collection
Data Capture
Analysis
Next Step
Prev Step
Identify the system(s) that have been affected

Identify user credentials compromised or at risk

Identify the IT services being impacted

Identify critical & additional system(s) that are at risk of being compromised

Identify types of network protocols being utilized

Identify unauthorized tools utilized to gain access to systems or user accounts

Identify any source attribution collected

Identify lateral movement of compromised users throughout enterprise

Identify the tools used to detect the attack

Select Database

Vulnerability Logs

System Logs

Incident Database

Threat Database

Query Database

Generate Report

View Report

View Record Details

Select Records

Copy Record Details

SIEM

IDS

Firewall

Scanners

Antivirus

Access Control Systems
Recover - Unauthorized Access

Recover Systems
- Reimage
- IDS/IPS & Firewall Updates
- Identify ways to mitigate further movement

Incident Remediation
- Wipe & Baseline System
- Scan host with updated Signature
- Scan File Share with updated Signature
- Remove Vulnerabilities & Update Routers
- Update access control system policies

Prev Step

Next Step
INCIDENT RESPONSE COMMUNITY

POST-INCIDENT - UNAUTHORIZED ACCESS

Lessons Uncovered
- Discovery Meeting
- Policy Updates Defined
- Process Updates Defined
- Configuration Updates Defined

Lessons Applied
- Policies Implemented
- Process Changes Implemented
- Configurations Applied

Response Workflow Updated

END
Proactive Response
An automated playbook helps security teams optimize for efficiency and productivity. Your security team has the ability to analyze, detect and prioritize when all pertinent data and multiple security tools are integrated into one system. With one-screen visibility you can identify anomalies, assign tasks, access reporting and communicate across multiple departments effectively for quick responses.

Quick Containment
Time and speed are crucial in assessing the environment and risk in the context of your business. Playbooks give a complete view of the necessary tasks to capture the data needed to support proper recovery and forensics. The efficiency a playbook brings to a security team allows for quick responses to finding the source of the attack, following lateral movement across the organization and taking the proper steps to mitigate damage.

Effective Remediation
Organization and automation are key benefits that result in effective remediation. Automated playbooks help to organize security processes, mitigation plans and smooth communication between multiple departments. By optimizing data collection, analysis, and communications you improve the odds for effective eradication, recovery with integrity and forensic-quality reporting.

Action Plan
Having a view into what is possible is the first step in taking action. The next step is to bring your team together to drive it toward reality. Email this guide to your peers and managers to begin sharing your playbook with them.

With this playbook, you will be better prepared to handle the response. To help with the management and automation of this incident response playbook, consider working with CyberSponse and their partners. Come take a look at what they do.

For additional incident response workflow examples, visit https://www.incidentresponse.com/playbooks

Security Management Benefits
- Be prepared to handle any incident your team faces
- Control the situation, minimizing the impact to the business
- Efficiently manage your response across multiple departments

Useful Links:
NIST Incident Handling Guide
SANS Incident Handler’s Handbook

Risk Management Benefits
- Communicate effectively to ensure risk mitigation methods are applied
- Prioritize resources and activities where they matter most
- Report and tune based on response learning, reducing risk moving forward

Useful Links:
NIST Risk Management Framework Guide
Sample Policies and Plans