# Incident Response Playbook: Suspicious USB Device Usage — (data transfer / autorun)

Team AnubisX

 $\begin{array}{c} \text{Version } 1.0 \\ \text{September } 23,\,2025 \end{array}$ 

Document Control						
Attribute	Value					
Version	1.0					
Status	Draft					
Owner	AnubisX Security Team					
Review Cycle	v Cycle Every Quarter					

# ${\bf Contents}$

1	Introduction						
	1.1 Purpose						
	1.2 Scope						
2	Overview of the Attack						
3	Incident Response Phases						
	3.1 Phase 1: Preparation						
	3.2 Phase 2: Identification & Analysis						
	3.3 Phase 3: Containment						
	3.4 Phase 4: Eradication						
	3.5 Phase 5: Recovery						
	3.6 Phase 6: Post-Incident Activities (Lessons Learned)						

## 1 Introduction

#### 1.1 Purpose

This playbook defines incident response procedures for handling "Suspicious USB Device Usage — (data transfer / autorun)". It provides roles, responsibilities, detection indicators, containment steps, and recovery guidance to minimize impact and restore services.

#### 1.2 Scope

This playbook applies to systems, network components, cloud services, and personnel. It is intended for use by incident responders, SOC analysts, IT operations, legal, and leadership.

#### 2 Overview of the Attack

USB devices are a common vector for malware introduction and data exfiltration. Key risks include:

- Malware introduction, data theft, unauthorized data transfer
- Potential lateral spread via removable media

## 3 Incident Response Phases

This playbook follows the NIST Incident Response lifecycle framework.

### 3.1 Phase 1: Preparation

Goal: To ensure the team is equipped and ready to respond to a suspicious USB incident before it occurs.

- Roles and Responsibilities: Define roles: Incident Commander, Lead Analyst, Forensics, IT, Communications.
- Logging Auditing: Ensure logging and centralized authentication audits are enabled.
- Tools Resources: Deploy specialized detection rules and maintain playbooks for the specific alert type.
- Training: Regular backups and least-privilege access models.

#### 3.2 Phase 2: Identification & Analysis

Goal: Confirm the activity and determine scope and severity.

- 1. **Initial Analysis and IOC Evaluation:** Analyze logs and alerts to identify Indicators of Compromise (IOCs). Common IOCs include:
  - New removable device mounts with large file copy activity
  - Autorun entries triggering executable payloads
  - Unusual file system timestamps aligned with device connection

2. **Severity Level Assessment:** Classify the incident to ensure appropriate allocation of resources. Severity is based on: Operational Impact, Criticality of affected systems/data, Scope of attack, and Detection/Recovery timelines (MTTD/MTTR).

Level	Description	Example	MTTD	MTTR
Low	Single authorized de-	Employee uses thumb drive for	<1 hr	<24 hrs
	vice used for normal	legitimate task.		
	transfer.			
Medium	Unknown device used	USB device used to move sen-	1-6 hrs	1-3 days
	and suspicious copies	sitive documents across ma-		
	observed.	chines.		
High	Malware introduced	Device runs autorun malware	6-24 hrs	3-7 days
	or sensitive data	and exfiltrates files.		
	stolen via USB.			
Critical	Large-scale data ex-	Coordinated insider exfil using	24+ hrs	7-21
	filtration or malware	multiple USBs.		days
	spread via multiple			
	devices.			

Table 1: Incident Severity Matrix

#### 3.3 Phase 3: Containment

Goal: Limit attacker actions and preserve evidence.

- Unplug device after forensically imaging the host, disable USB ports where appropriate.
- Collect device identifiers (VID/PID/serial) and review file copy logs.

#### 3.4 Phase 4: Eradication

Goal: To remove malicious components and prevent reinfection.

- Remove malicious files, reimage infected hosts, disable autorun policies.
- Policy enforcement and user training on removable media.

#### 3.5 Phase 5: Recovery

Goal: To safely restore systems and business operations.

- Restore data from backups and audit access to sensitive files.
- Implement USB control solutions and DLP.

#### 3.6 Phase 6: Post-Incident Activities (Lessons Learned)

Goal: To strengthen resilience and prevent recurrence.

- Conduct a blameless post-mortem and update playbooks.
- Produce final incident report and recommended mitigations.
- Implement controls to reduce recurrence.

# 4 MITRE ATT&CK Framework Mapping

# Suspicious USB Usage ATT&CK Mapping

- Tactic: Initial Access
  - T1091 Replication Through Removable Media
- Tactic: Exfiltration
  - T1041 Exfiltration Over C2 Channel