
Incident Response Playbook: Suspicious Network Scanning / Reconnaissance

Team AnubisX

Version 1.0
September 23, 2025

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

Contents

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

1 Introduction

1.1 Purpose

This playbook defines incident response procedures for handling "Suspicious Network Scanning / Reconnaissance". 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

Network scanning and reconnaissance identify live hosts, open ports, and services to map targets for later attacks. Key risks include:

- Discovery of vulnerable hosts
- Information leakage about network topology
- Recon may be precursor to targeted attacks

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 network scanning 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:
 - High rate of port scans from single or distributed IPs
 - Unusual DNS queries for internal resources
 - ARP/NetBIOS sweeps on internal subnets

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 benign vulnerability scan by IT.	Scheduled vulnerability scan authorized by team.	<1 hr	<24 hrs
Medium	Unauthorized scans on multiple subnets.	Unscheduled scanning activity from unknown source.	1-4 hrs	1-3 days
High	Targeted scanning followed by exploitation attempts.	Scanning followed by login attempts or exploit traffic.	4-12 hrs	3-7 days
Critical	Coordinated reconnaissance preceding major breach.	Extensive mapping used to orchestrate multi-stage attacks.	12+ hrs	7-21 days

Table 1: Incident Severity Matrix

3.3 Phase 3: Containment

Goal: To limit attacker actions and preserve evidence.

- Identify source(s) of scans and block at perimeter.
- Notify network teams and isolate scanning origin.
- Review internal scan schedules to rule out false positives.

3.4 Phase 4: Eradication

Goal: To remove malicious components and prevent reinfection.

- Collect pcap and logs, update network ACLs, hunt for follow-up activity.
- Harden exposed services, apply patches.

3.5 Phase 5: Recovery

Goal: To safely restore systems and business operations.

- Validate no further scanning and ensure patched hosts are monitored.
- Update perimeter defenses and blacklists.

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 Network Scanning ATT&CK Mapping

- **Tactic: Reconnaissance**
 - *T1595 – Active Scanning*
 - *T1592 – Gather Victim Network Information*
- **Tactic: Initial Access**
 - *T1190 – Exploit Public-Facing Application*