# Incident Response Playbook: DDoS Attack (Layer 3/4 or HTTP Flood)

# Team AnubisX

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#### 1 Introduction

#### 1.1 Purpose

This playbook defines incident response procedures for handling "DDoS Attack (Layer 3/4 or HTTP Flood)". 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

Distributed Denial of Service (DDoS) overwhelms network or application resources, causing service outages. Key risks include:

- Service unavailability, revenue loss
- Diversion of security resources
- Collateral damage to infrastructure

#### 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 DDoS 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:
  - Spike in inbound traffic, unusual SYN/UDP floods
  - High rate of HTTP requests with low session depth
  - Traffic from botnets or spoofed sources

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	Short-lived flood with	Brief spike handled by auto-	<1 hr	<24 hrs
	minimal impact.	scaling or scrubbing.		
Medium	Sustained traffic caus-	Service slowed and some re-	1-6 hrs	1-3 days
	ing partial degrada-	quests dropped.		
	tion.			
High	Extended attack af-	Major service degradation	6-24 hrs	3-7 days
	fecting multiple ser-	with customer impact.		
	vices.			
Critical	Complete service out-	Prolonged DDoS affecting core	24+ hrs	7-21
	age across critical	business functions.		days
	systems.			

Table 1: Incident Severity Matrix

#### 3.3 Phase 3: Containment

Goal: Limit attacker actions and preserve evidence.

- Engage DDoS mitigation service or CDN scrubbing.
- Apply ACLs and blackhole malicious prefixes.
- Scale resources where possible and enable rate-limiting.

#### 3.4 Phase 4: Eradication

Goal: To remove malicious components and prevent reinfection.

• Block malicious vectors, analyze attack patterns, coordinate with ISP and mitigation partners.

#### 3.5 Phase 5: Recovery

Goal: To safely restore systems and business operations.

• Restore normal traffic routing, validate current filtering rules, and review SLA impacts.

#### 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

### DDoS Attack ATT&CK Mapping

- Tactic: Impact
  - T1499 Endpoint Denial of Service
- Tactic: Command and Control
  - T1071 Application Layer Protocol