



1. Alert Priority Levels

1.1 Core Concepts Learned

Priority Definitions:

Critical = Ransomware encryption, major data breach, full service outage.

High = Unauthorized admin access, privilege escalation.

Medium = Lateral movement attempts, brute-force attacks with limited success.

Low = Reconnaissance activity (e.g., port scans).

Assignment Criteria:

Asset criticality: Production database > Test VM.

Exploit likelihood: Public exploit available = higher priority.

Business impact: Financial loss or compliance violation raises priority.

Scoring Systems:

Learned CVSS v3.1 metrics (Base, Temporal, Environmental).

Studied risk scoring in SOC tools (Splunk, Elastic SIEM).

1.2 References Used

FIRST CVSS v3.1 Guide

NIST SP 800-61 Rev. 2 (Incident Handling Guide)

CISA Log4Shell Alert (AA21-356A)

1.3 Case Study Example

Vulnerability: Log4Shell (CVE-2021-44228)

CVSS Score: 10.0 (Critical)

Impact: Remote Code Execution, widespread exploitation.

Priority Level Assigned: Critical

1.4 Skills Developed

Ability to map vulnerabilities and alerts to priority levels.



Capability to apply CVSS scoring in SOC workflows.

2. Incident Classification

2.1 Core Concepts Learned

Incident Categories:

Malware → Host-based infection.

Phishing → Email-based credential theft.

DDoS → Service disruption.

Insider Threat → Unauthorized data export.

Data Exfiltration → Unauthorized transfer of sensitive data.

Taxonomies Studied:

MITRE ATT&CK (techniques & tactics).

ENISA Incident Taxonomy.

VERIS Framework.

Contextual Metadata:

Timestamps, source/destination IPs.

Indicators of Compromise (file hashes, domains).

Affected system roles (server, workstation, network device).

2.2 References Used

MITRE ATT&CK Navigator

ENISA Incident Classification Taxonomy

VERIS Community Database (VCDB)

2.3 Case Study Example

Incident Type: Phishing Campaign

MITRE ATT&CK Mapping: T1566.001 (Phishing: Spearphishing Attachment)

Metadata Collected:

IOC: SHA256 hash of attachment

Source IP: 192.168.204.131

Affected User: 20hotdogg00@gmail.com



2.4 Skills Developed

Ability to standardize incident classification.

Capability to enrich alerts with metadata for investigations.

3. Basic Incident Response

3.1 Core Concepts Learned

Incident Lifecycle (NIST SP 800-61):

Preparation → Playbooks, IR tools.

Identification → Alert triage in SIEM.

Containment → Isolate infected host.

Eradication → Remove malware, revoke access.

Recovery → Restore from backups, monitor.

Lessons Learned → Post-mortem review.

Procedures Practiced:

System isolation using firewall rules.

Evidence preservation (hashing artifacts, memory dump).

Communication protocol (escalation matrix).

SOAR workflow basics (Splunk Phantom/Elastic SOAR).

3.2 References Used

NIST SP 800-61

SANS Incident Handler's Handbook

Let's Defend Labs

3.3 Case Study Example

Incident: Malware infection detected on a test VM.

Containment: Quarantined host from network using iptables.

Eradication: Removed malicious binary.

Recovery: Restored system from snapshot.

Lessons Learned: Improve email filtering to block attachment type.



3.4 Skills Developed

Mastery of incident response lifecycle.

Familiarity with evidence handling and system isolation.

Exposure to SOAR-based response automation.

4. Overall Reflection

Stronger grasp on alert prioritization frameworks.

Improved ability to classify incidents using MITRE ATT&CK.

Hands-on practice with incident lifecycle management.

Next Steps: Explore advanced threat hunting with Sigma rules and automation with SOAR platforms.