Techonquer

# Security Operations Center (SOC) Course Syllabus (TCSA )

Master Cyber Defense with Cutting-Edge Skills and Tools

# Security Operations Center (SOC) Fundamentals

### Introduction

SOC importance, types, and tiers.

### Performance Monitoring

KPIs and metrics for SOC effectiveness.

# Threat Hunting and Threat Intelligence

## 1 Types of Threat Intelligence

Tactical, operational, and strategic.

## 2 MITRE ATT&CK

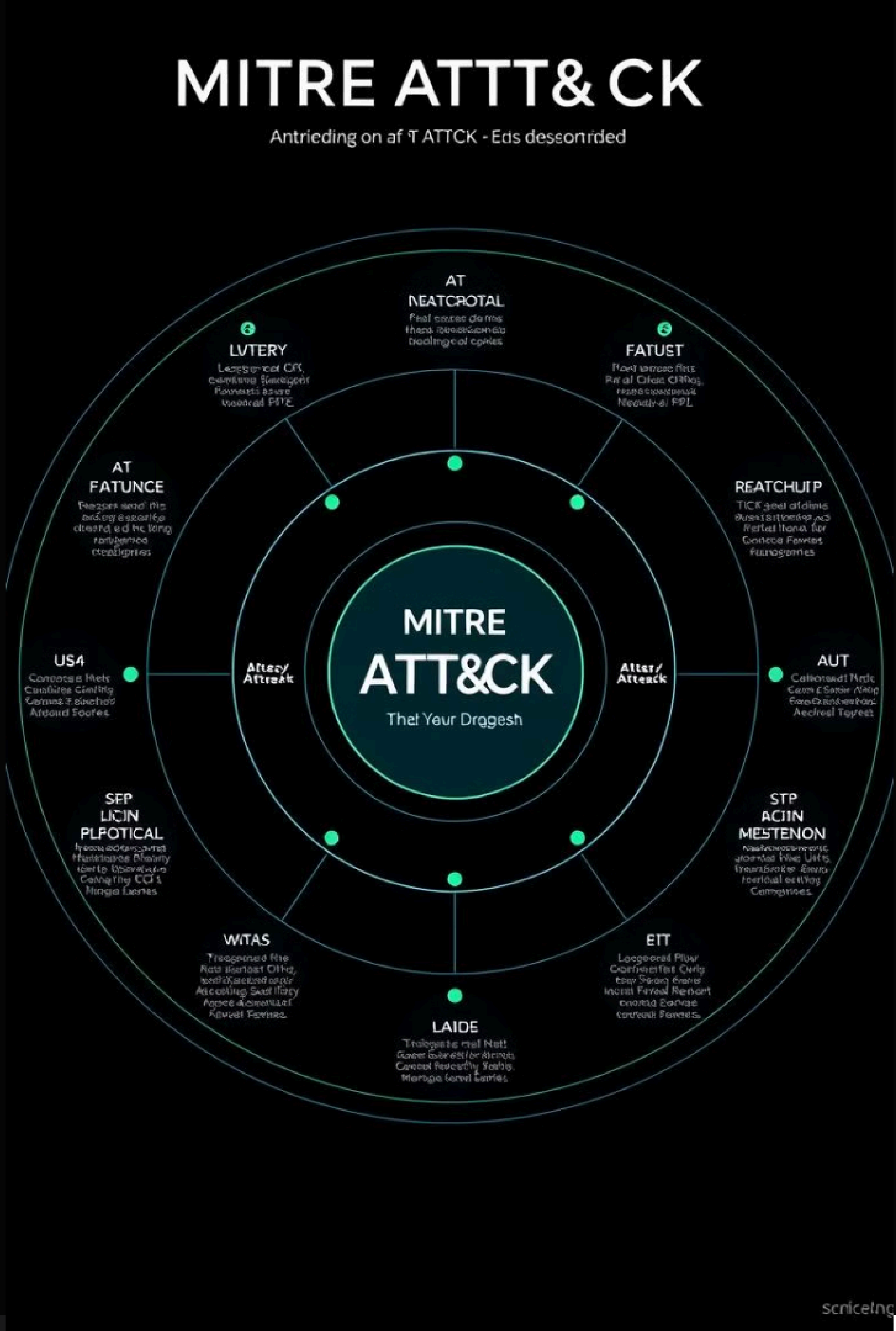
Framework for understanding attacker tactics and techniques.

## 3 Threat Hunting Techniques

Behavioral analysis and hypothesis-driven hunting.

## 4 Identifying IoCs

Hashes, domains, IPs, and URLs.



# Mastering SIEM Tools

## SIEM Architecture

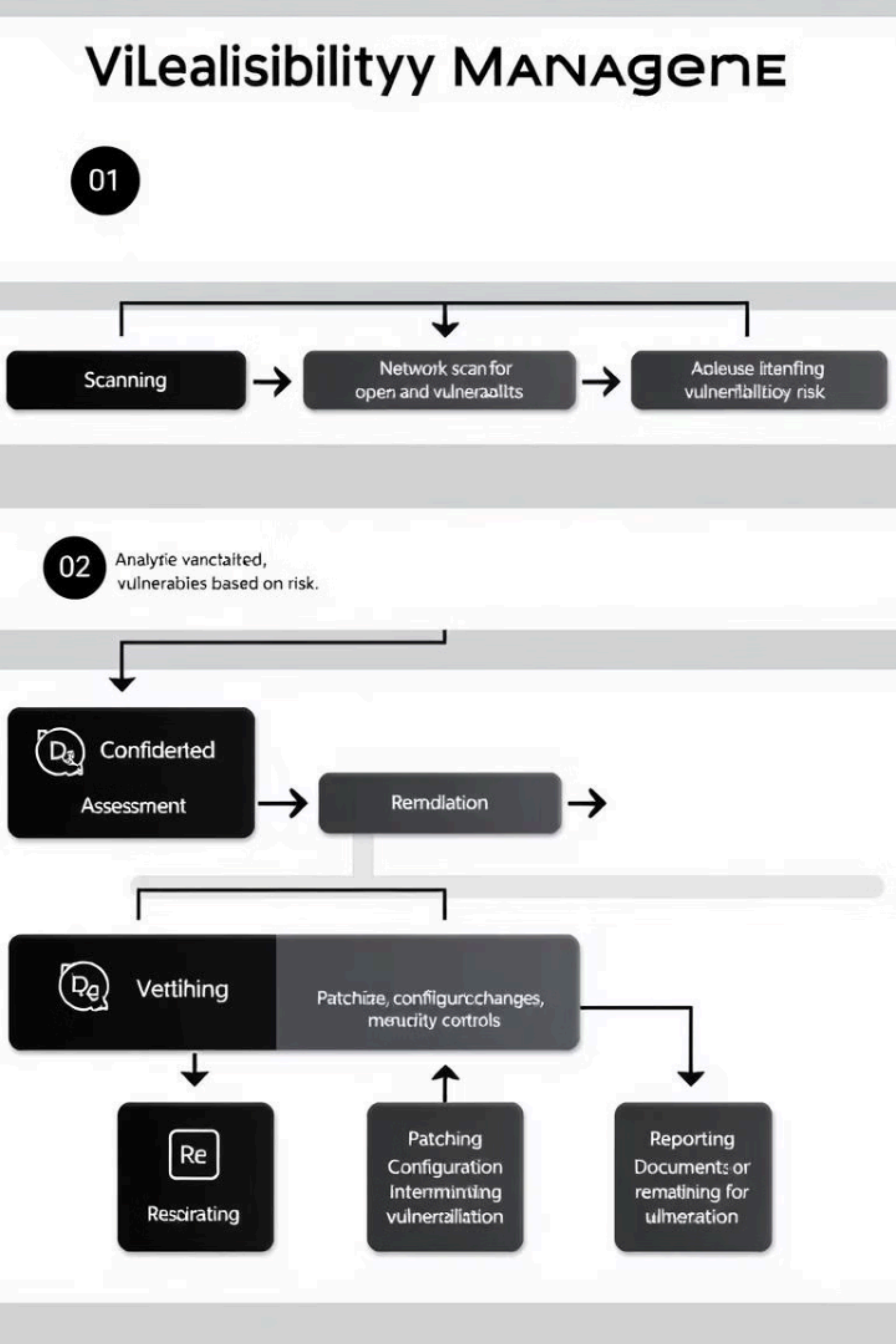
Log sources, correlation techniques, and use cases.

## Rule Creation

Fine-tuning and alert management.

## Hands-on

IBM QRadar and Splunk.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# Proactive Vulnerability Management

## Network Scans

Identify vulnerabilities in network devices.

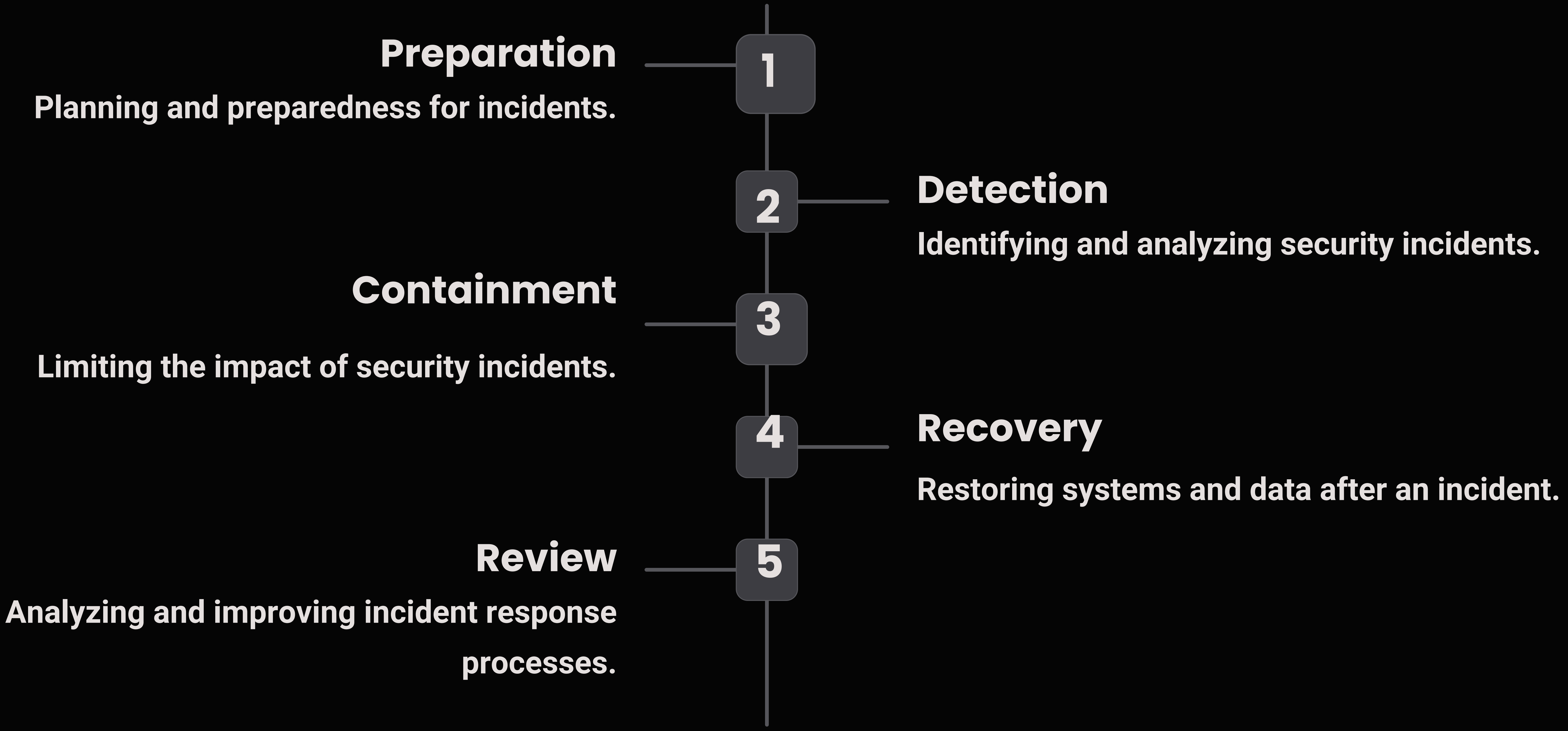
## Web Scans

Assess vulnerabilities in web applications.

## Cloud Scans

Identify vulnerabilities in cloud infrastructure.

# Incident Response and EDR



### Preparation

Planning and preparedness for incidents.

### Detection

Identifying and analyzing security incidents.

### Containment

Limiting the impact of security incidents.

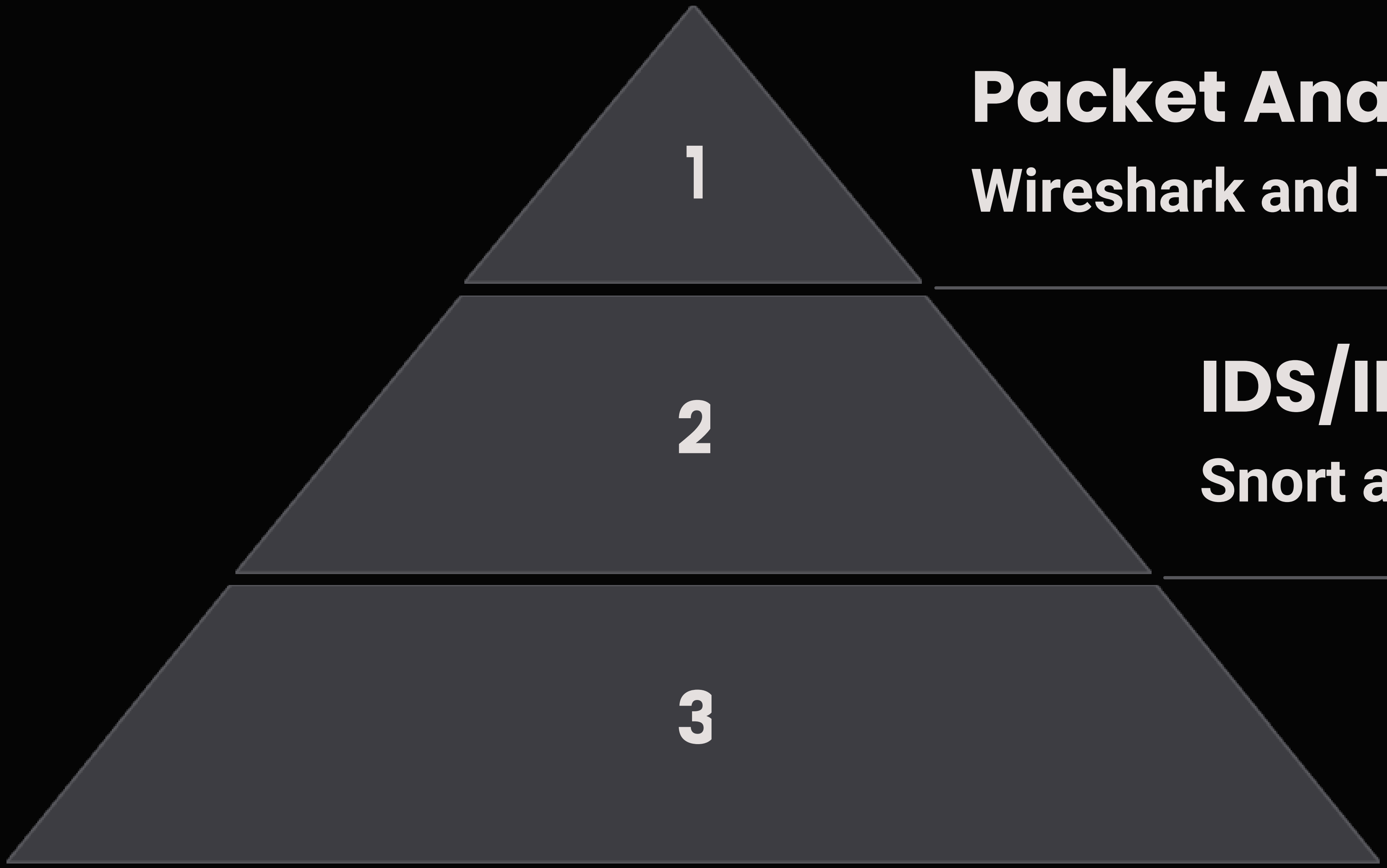
### Recovery

Restoring systems and data after an incident.

### Review

Analyzing and improving incident response processes.

# Network Security Monitoring and Automation



### Packet Analysis

Wireshark and Tcpdump.

### IDS/IPS

Snort and Suricata.

### SOAR

Automating alert triaging and playbook creation.

# Securing Cloud Environments

1

## Shared Responsibility

Understanding cloud security responsibilities.

2

## Common Threats

Identifying security risks in cloud environments.

3

## Tools

Scout Suite, Prowler, and Pacu.

4

## Logging

AWS CloudTrail and Azure Monitor.

# SOC Tools Mastery

### SIEM

IBM QRadar, Splunk.

### Vulnerability Scanning

Nessus, OpenVAS, Scout Suite.

### Threat Hunting

MITRE ATT&CK Navigator, MISP.

### EDR

Wazuh, Sophos

# Get in Touch

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