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RedBack Incident Response Playbook

Redback Operations

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Version	Modified By	Approver	Date	Changes made	
1.0	Priyanshu		29 April 2024	First draft	
1.1	Devika		11 May 2024	Changed the flowchart	
	Sivakumar			mentioned the stages,	
				updated the incident	
				response stages in part-5	
				and arranged the	
				document with correct	
				format. Added correct	
				page number. Added the	
				content table. Gave	
				correct font size and	
				theme. Corrected certain	
				grammar error and	
				punctuations.	
2.0	Devika		29 July 2024	A comprehensive update	
	Sivakumar			has been carried out	
				throughout the playbook.	
				Several new attack types	
				and case studies have	
				been added. The	
				stakeholder's section has	
				been revised, and a	
				RACI chart has been	
				included. The steps for	
				monitoring threats now	
				included. New	
				terminology has been	
				introduced. The overall	
				format of the playbook	
				has been adjusted to	
				align with other	
				playbooks. The table has	
				also been updated.	



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1. Introduction

1.1 Overview

In today's interconnected digital landscape, cybersecurity breaches pose significant risks to organizations of all sizes and industries. Redback Operations faces potential security breaches and disruptions that can lead to severe consequences, such as financial loss and reputational damage. Whether dealing with sophisticated cyber-attacks or unintentional data leaks by insiders, Redback Operations must navigate these challenges effectively. The Redback Operations Incident Response Playbook is a comprehensive guide designed to equip Redback Operations with the tools, strategies, and best practices needed to effectively restore systems, data, and operations after a security breach. This manual aims to mitigate the impact of incidents, minimize downtime, and protect against future threats.

1.2 Purpose

The primary purpose of the Redback Operations Incident Response Playbook is to create a unified and coordinated approach to recovery operations. It provides clear instructions and actionable steps to navigate disruptions, ensuring Redback Operations are well-prepared to handle security breaches and emerge stronger and more resilient.

1.3 Definition of Attack

The term "attack" encompasses a broad spectrum of malicious actions threatening the security, integrity, or availability of Redback Operations' systems, networks, or data. This includes intentional actions by external threat actors and inadvertent errors by internal users.

1.4 Scope

The playbook covers all types of security incidents and disruptions, including malicious activities (cyber-attacks, data breaches, phishing attempts) and non-malicious events (system failures, natural disasters, human errors). This comprehensive approach ensures a flexible and adaptive response to various threats.



2. Attack Types

2.1 Insider Threats

Insider threats are of particular concern to Redback because people within an organization can misuse their access rights to compromise security, integrity, or security. Availability of Redback's systems, networks, or data. These individuals may include employees, contractors, or of their trusted entities that pose a serious threat to the organization's cybersecurity posture. Inside er threats come in many forms, including unauthorized access to confidential information, data a breaches, obstruction, and negligence. For example, employees can directly access Redback systems and abuse their rights to steal confidential data for personal gain or inadvertently reveal confidential information by tampering with company assets. Detecting and mitigating insider threats requires a multilayered approach that includes implementing strong access controls, monitoring user activity, and conducting regular security briefings, and creating a culture of accountability and trust within the organization.

Case Study: Edward Snowden (2013)

Overview: Snowden, a former NSA contractor, leaked classified information to the public. **Impact:** The leaks exposed global surveillance programs and caused diplomatic tensions. **Response:** The NSA reviewed and enhanced its access controls and insider threat programs.

2.2 External Attacks

External attacks against Redback originate from threat actors outside the organization's domai n, including followers, Internet critics, and domestic actors. These attackers often exploit vuln erabilities in Redback's systems, networks, or applications to gain unauthorized access, steal s ensitive information, or disrupt operations. External attacks come in many forms, including p hishing attacks, malware, denial-of-

service (DoS) attacks, and exploiting software vulnerabilities. For example, attackers could la unch sophisticated cyberattacks on Redback's network infrastructure, using untouched softwa re vulnerabilities to access sensitive data or disrupt critical business operations. Protecting ag ainst external attacks requires a proactive, multifaceted approach, including implementing cy bersecurity controls, conducting regular vulnerability assessments, monitoring suspicious acti vity, and using threat intelligence to identify and mitigate emerging threats.

Case Study: SolarWinds Attack (2020)

Overview: Attackers infiltrated SolarWinds' Orion software, impacting multiple U.S. government agencies and private companies.

Impact: The breach compromised sensitive data and required extensive remediation efforts. **Response:** SolarWinds implemented security enhancements, including improved software development practices and threat detection capabilities.



2.3 Data Breach

Data breaches are a serious threat to Redback's security posture due to the unauthorized acces s, deletion, or disclosure of sensitive or confidential information. These breaches can occur fr om multiple attack vectors, including external attacks, insider threats, and accidental data exp osure. A data breach can have serious consequences for Redback, including financial loss, rep utational damage, legal penalties, and loss of customer trust. For example, cybercriminals could exploit vulnerabilities in Redback's network infrastructure to gain unauthorized access to c ustomer databases and steal sensitive information such as personally identifiable information (PII), payment card data, inventory, or mind. Preventing and mitigating data breaches require a multilayered approach, including implementing strong access controls, encrypting sensitive data, monitoring for unauthorized access, conducting regular security audits, and adhering to regulatory compliance requirements such as GDPR or CCPA.

Case Study: Equifax Data Breach (2017)

Overview: Attackers exploited a vulnerability in Equifax's web application framework to gain access to sensitive information.

Impact: The breach exposed personal information of approximately 147 million individuals. **Response:** Equifax enhanced its cybersecurity practices, implemented stronger access controls, and paid a settlement of up to \$700 million.

2.4 Phishing Attacks

Phishing attacks are a prevalent form of cyber threat that targets individuals within Redback t hrough deceptive tactics, such as fraudulent emails, messages, or websites, with the goal of tri cking recipients into divulging sensitive information or performing malicious actions. These a ttacks often impersonate legitimate entities, such as Redback's employees, customers, or busi ness partners, to gain the trust of unsuspecting victims. Phishing attacks can take various for ms, including email phishing, spear phishing, or social media phishing, and may involve entic ing recipients to click on malicious links, download malwareinfected attachments, or enter lo gin credentials into fraudulent websites. For example, a cybercriminal may send a phishing e mail to Redback's employees, posing as the IT department and requesting them to reset their passwords by clicking on a malicious link, thereby compromising their credentials, and gaining unauthorized access to Redback's systems. Preventing phishing attacks requires a combination of user education and awareness training with technical capabilities, such as email filtering, web content analysis, and endpoint protection, to help people recognize and report phishing attempts.

Case Study: Target Phishing Attack (2013)

Overview: Attackers used phishing emails to gain access to Target's network, stealing credit card information.

Impact: The breach affected over 40 million customers and resulted in significant financial losses.



Response: Target invested in cybersecurity improvements, including advanced threat detection and employee training programs.

2.5 Ransomware Attack:

Ransomware attacks are a serious threat to Redback's operations by distributing malicious sof tware that encrypts files or systems and makes them inaccessible until payment is made. strik er These attacks can cause damage to Redback, including data loss, financial damage, organiz ational disruption, and reputational damage. Ransomware attacks can be delivered through va rious methods, including email phishing, packet exploits, and remote desktop protocol (RDP) vulnerabilities, which can target endpoints, servers, and Redback network infrastructure. For example, cybercriminals can distribute ransomware to Redback employees using phishing em ails with malicious attachments. Once opened, the attachment encrypts files on the victim's de vice and demands a ransom in exchange for the decryption key. Preventing ransomware attacks requires a multi-layered approach, including implementing end-to-

end security measures, backing up sensitive data, patching known vulnerabilities, and segmen ting networks to prevent the spread of ransomware and staff training on ransomware risks and best practices.

Case Study: WannaCry Ransomware Attack (2017)

Overview: The WannaCry ransomware exploited a Windows vulnerability, encrypting data on affected systems.

Impact: The attack affected over 200,000 computers across 150 countries, causing widespread disruption.

Response: Organizations applied security patches, enhanced backup practices, and improved incident response plans.

2.6 Credential Theft

Unauthorized removal or misuse of login credentials, such as usernames and passwords, to ac cess a secure Redback State site. Systems, applications, or sensitive information. These crede ntials can be obtained in several ways, including phishing attacks, hacking techniques, or expl oiting vulnerabilities in the authentication method. Identitytheft allows attackers to impersona te legitimate users, bypass security controls, and gain unauthorized access to Redback resourc es. For example, cybercriminals can use stolen credentials to log into the Redback employee portal and download sensitivedata or initiate fraudulent activities. To prevent information thef t, you should implement strong authentication methods, including multifactor authentication (MFA,password management policies, and user training to educate employees on the importan ce of protecting their symptoms and being aware of potential threats.

Basically, Redback Operations implements cybersecurity measures and enforces security to st ay alert against all types of attacks, including insider threats, external attacks, data breaches, p hishing attacks, ransomware attacks, and theft to stay on top of day. Aculture of security awar eness throughout the organization.



Case Study: LinkedIn Data Breach (2012)

Overview: Hackers accessed LinkedIn's user database, stealing hashed passwords. Impact: The breach exposed millions of user credentials, leading to unauthorized access. Response: LinkedIn implemented stronger password hashing techniques and encouraged

users to adopt two-factor authentication.

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3. Stakeholders

The proficient handling and settlement of incidents require the coordinated endeavours and cooperation of a heterogeneous group of stakeholders, each possessing distinct knowledge, viewpoints, and roles. The following parties are essential to the incident response process, from frontline responders entrusted with containment and mitigation to senior leadership tasked with making strategic decisions:

- 1. IT Security Team: Redback Operations' IT Security Team is a key element of incident response, spearheading the technical efforts to locate, investigate, and resolve problems involving improper usage. This team oversees monitoring system and network logs, doing forensic investigation, and implementing security procedures to prevent such incidents in the future. They work together with other relevant parties to guarantee a coordinated and effective response to instances of inappropriate usage, minimising the impact on Redback's operations and data protection.
- 2. Incident Response Team: The cross-functional incident response team at Redback Operations is made up of representatives from the management, IT, security, and legal departments. This group is responsible for planning incident response actions, communicating with pertinent stakeholders, and making critical decisions to contain and handle instances of inappropriate use. They ensure that incident response operations adhere to Redback's policies, procedures, and legal obligations, fostering a cohesive and efficient response.
- 3. Legal and Compliance Department The management, IT, security, and legal departments are represented on Redback Operations' cross-functional incident response team. To contain and manage cases of inappropriate use, this group oversees organising incident response actions, corresponding with relevant parties, and making crucial decisions. To promote a coordinated and effective reaction, they make sure that incident response activities follow Redback's rules, processes, and legal duties.
- **4. System Administrators**: Root access concerns are largely identified, investigated, and resolved by system administrators, who operate as stewards of organisational systems and networks, using their technical expertise and domain experience to restore system integrity and performance.
- **5. Management**: Setting organisational priorities, allocating resources, and spearheading strategic efforts aimed at bolstering the organization's resilience against root access threats are all crucial tasks performed by executive leadership, which includes C-suite executives and senior management.
- **6. External Consultants**: Organisations may hire outside consultants or third-party vendors to supplement their incident response capabilities in situations requiring



specific knowledge or resources. These vendors can help with forensic analysis, threat intelligence, and remediation efforts.

RACI Chart for Incident Response

Task/Activity	IT Security Team	Incident Response Team	Communication Team	Customers	Third- Party Vendors
Preparation	Team	Team			Venuors
Establish	R, C	A, R	I	I	I
incident	11, 0				
response team					
Develop	A, R	R, C	I	I	I
response	,	, -			
procedures					
Conduct training	A, R	R	Ι	I	I
sessions					
Implement	A, R	R	I	I	I
surveillance					
systems					
Detection					
Monitor system	A, R	R	I	I	I
logs and traffic					
Use IDS and	A, R	R	I	I	I
SIEM tools					
Analyse alerts	A, R	R	I	I	I
Analysis					
Conduct forensic	A, R	R	I	I	I
analysis					
Determine	A, R	R	I	I	I
impact					
Identify threat	A, R	R	I	I	I
actor tactics					
Containment					
Isolate affected	A, R	R	I	I	I
systems					
Implement	A, R	R	I	I	I
access controls					
Block malicious	A, R	R	I	I	I
activity					
Eradication					
Remove	A, R	R	I	I	I
unauthorized					
access					



Patch vulnerable	A, R	R	I	I	I
systems	,				
Update security	A, R	R	I	Ι	I
policies					
Recovery					
Restore	A, R	R	I	Ι	I
compromised					
systems					
Recover data	A, R	R	I	I	I
from backups					
Reconfigure	A, R	R	I	I	I
networks					
Post-Incident					
Review					
Assess incident	A, R	R	I	I	I
response					
Document	A, R	R	I	I	I
lessons learned					
Update incident	A, R	R	I	I	I
response					
protocols					

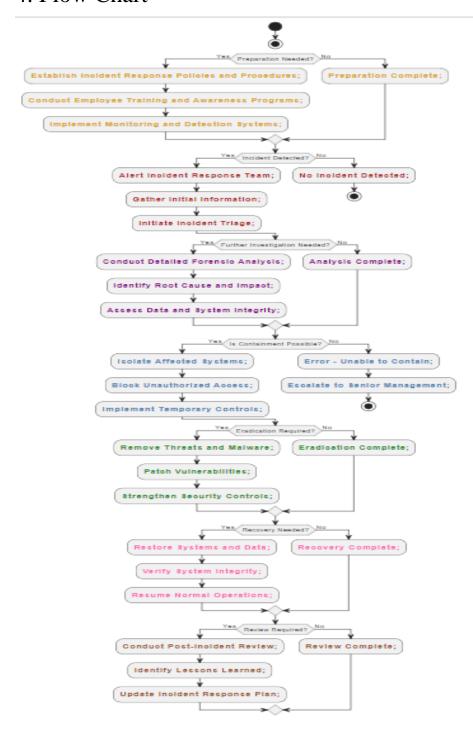


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4. Flow Chart



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1. Preparation Stage (Yellow):

- This phase involves the first steps in becoming ready to handle any issue that may arise with Redback's systems.
- Establishing the incident response team, creating crisis response protocols, running training sessions and simulations, and putting security and surveillance technologies in place are important tasks.
- The necessity of readiness and preparation for the efficient handling of situations is symbolised by the colour yellow.

2. Detection Stage (Red):

- Identifying signs of inappropriate use or illegal access to Redback's systems and resources is the main goal at this point.
- Using intrusion detection systems (IDS) and security information and event management (SIEM) technologies, keeping an eye out for suspicious activity, and examining anomalies and warnings are some of the actions involved.
- Red is a symbol for the urgency and importance of event detection to provide quick mitigation and response actions.

3. Analysis Stage (Violet):

- This stage entails determining the type and extent of the incident that has been discovered.
- Data collection, forensic analysis, system and network analysis, threat actor strategies, and indicator of compromise (IOC) identification are among the activities involved.
- The colour violet represents the necessity for a careful investigation to ascertain the incident's causes, consequences, and authorship.

4. Containment Stage (Sky Blue):

- At this point, measures are being done to lessen the incident's impact and stop more unauthorised access or data leaks.
- To contain or prevent harmful software or data, segregate susceptible systems, put access restrictions in place, and, if containment fails, escalate to senior management.
- The containment strategies intended to lessen the incident's impact and spread are symbolised by the colour sky blue.

5. Eradication Stage (Light Green):

- This phase concentrates on eliminating attackers from Redback's networks and infrastructure and resolving any risks or vulnerabilities that may still exist after the event has been controlled.
- Among the tasks include deleting illegal software and data, patching, or upgrading weak systems, and examining and revising security guidelines and protocols.
- The activity of eliminating the event and guaranteeing the security of the organization's systems is represented by the colour light green.

6. Recovery Stage (Pink):



- Restoring impacted systems and data to normal functioning and continuing company operations are the goals of the recovery stage.
- Rebuilding or reconfiguring networks and systems, recovering corrupted systems and data backups, and putting user awareness and education programmes into action are among the tasks.
- The process of recuperating from the catastrophe and improving security procedures to lessen the possibility of a recurrence is symbolised by the colour pink.
- 7. Post-Incident Review Stage (Brown):
 - Post-incident activities are carried out in the last step to assess the
 organization's reaction to the incident and pinpoint areas that require
 improvement.
 - The process of responding to incidents is thoroughly analysed, best practices and lessons gained are documented, and incident response protocols, rules, and security configurations are updated, among other tasks.
 - The post-event initiatives intended to improve future response efforts and learn from the occurrence are represented by the colour brown.

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5. Incident Response Stages

5.1 Preparation

• **Objective:** Putting in place the guidelines, practices, and tools required to handle issues in Redback's systems.

• Activities:

- o Putting together a team for incident response with clear roles and duties.
- Creating strategies and processes for crisis response, such as escalation routes and communication guidelines.
- Holding practice sessions and exercises on a regular basis to guarantee readiness and rehearse incident response protocols.
- Putting in place security measures and surveillance systems to find and stop events.
- **Outcome:** A well-equipped company with the ability to react to situations quickly and efficiently.

5.2 Detection

• **Objective:** Recognising warning signs of illegal access to Redback's resources and systems.

• Activities:

- Keeping an eye out for questionable activity, such as odd access patterns or unauthorised attempts at authentication.
- Using security information and event management (SIEM) and intrusion detection systems (IDS) to find such problems.
- o Examining abnormalities and warnings to distinguish between authorised and unauthorised activity.
- **Outcome:** Rapid reaction times and mitigating actions are made possible by early event detection.

5.3 Analysis

- **Objective:** Recognising the type and extent of the incident that occurred.
- Activities:
- o Gathering information and carrying out forensic investigation to ascertain the origin and degree of the illegal entry.
- Examining hacked networks and systems to find attack vectors and how they affect compromised data.
- Recognising the tactics, methods, and procedures (TTPs) of threat actors and indicators of compromise (IOCs).
- **Outcome:** A thorough comprehension of the event, considering its causes, consequences, and attributions.



5.4 Containment

• **Objective:** Limiting the spread and effects of the incident and stopping any illegal access or data leaks.

• Activities:

- Dividing up susceptible networks and systems to stop intruders from moving laterally.
- Putting safety measures and access restrictions in place to stop illegal access to sensitive data.
- Limiting or preventing harmful data, software, or network flow to stop more damage.
- **Outcome:** Efficient handling of the situation to reduce harm to Redback's systems and data.

5.5 Eradication

• **Objective:** Eliminating threats and any lingering vulnerabilities from Redback's networks and IT systems.

• Activities:

- Removing illegal access and putting compromised systems back in a safe and secure condition.
- Upgrading or patching susceptible systems and software to stop further exploitation.
- Examining and revising security protocols and guidelines to fix flaws or vulnerabilities found.
- **Outcome:** Eradicating all evidence of the incident and minimising weaknesses to stop it from happening again.

5.6 Recovery

- **Objective:** Restarting company operations and returning impacted systems and data to normal functioning.
- Activities:
- o Restoring damaged systems and data backups to guarantee the integrity and accessibility of data.
- Rebuilding or rearranging networks and systems to improve security and stop such incidents in the future.
- Putting user awareness and education programmes into action to reduce unauthorised access events in the future.
- **Outcome:** Full restoration of operations and services, together with strengthened security measures to lessen the chance of recurrence.

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5.7 Post-Incident Review

• **Objective:** Assessing the organization's reaction to the event, noting lessons gained and opportunities for development.

• Activities:

- Evaluating the incident response procedure in-depth to find its advantages, disadvantages, and potential areas for development.
- Recording best practices and lessons discovered to improve incident response skills in the future.
- Modifying security setups, rules, and incident response protocols considering review results.
- **Outcome:** Improved capacity for responding to crises and preparedness for new ones.

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6. Steps for Monitoring Threats

6.1 Establish a Monitoring Strategy

• **Objective:** Establish and implement a comprehensive strategy for continuous threat monitoring.

• Activities:

- o Clearly define objectives for threat monitoring.
- Select appropriate security tools such as IDS/IPS, SIEM systems, EDR solutions, and user behavior analytics software.
- Establish baselines for normal user activity, system behavior, and network traffic patterns.
- **Outcome:** A well-defined monitoring strategy aligned with Redback Operations' goals, enhancing the ability to detect and respond to threats effectively.

6.2 Deploy Monitoring Solutions

• **Objective:** Deploy and configure monitoring tools across the organization's infrastructure to detect threats.

• Activities:

- o Deploy selected monitoring tools across networks, systems, and endpoints.
- o Integrate monitoring tools with threat intelligence feeds.
- Ensure logging is enabled on critical systems, networks, and applications.
- **Outcome:** Comprehensive deployment and integration of monitoring solutions providing detailed insights into potential threats.

6.3 Continuous Monitoring and Analysis

• **Objective:** Maintain continuous monitoring and analysis to promptly detect and respond to threats.

• Activities:

- Implement real-time monitoring to continuously observe user activities, system behavior, and network traffic.
- o Utilize behavioral analytics and machine learning to identify anomalies.



- o Correlate events from various sources to identify patterns.
- **Outcome:** Enhanced capability to detect threats promptly, enabling swift response to mitigate potential impacts.

6.4 Alerting and Notification

• **Objective:** Ensure timely and effective response to detected threats through a robust alerting system.

Activities:

- Establish thresholds for different types of alerts.
- o Configure automated alerts to notify the security team.
- o Implement a system to prioritize alerts based on their severity.
- **Outcome:** Timely and effective response to detected threats, reducing the risk of significant damage.

6.5 Investigate and Respond

• **Objective:** Conduct thorough investigations and implement appropriate actions to mitigate identified threats.

Activities:

- o Perform initial triage to verify the validity and potential impact of alerts.
- o Conduct in-depth analysis of confirmed alerts.
- o Initiate containment measures and execute necessary eradication procedures.
- **Outcome:** Effective investigation and mitigation of threats, ensuring minimal impact on the organization.

6.6 Post-Incident Review

• **Objective:** Assess the effectiveness of the response and identify areas for improvement.

• Activities:

- Record all details of the incident, including detection, analysis, and response actions taken.
- o Conduct a review of the monitoring and response processes post-incident.

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- Update monitoring tools, configurations, and thresholds based on the findings.
- **Outcome:** Continuous improvement of incident response and threat monitoring processes.

6.7 Continuous Improvement

• **Objective:** Maintain and enhance the organization's threat monitoring strategy and tools.

• Activities:

- Conduct regular audits to ensure monitoring tools and strategies remain effective.
- o Provide ongoing training to security personnel.
- o Continuously adapt the monitoring strategy to address emerging threats.
- **Outcome:** A proactive and adaptive threat monitoring strategy that evolves with the changing threat landscape.

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7. Terminology

- **Incident:** Any event that threatens the security, integrity, or availability of Redback Operations' systems, networks, or data.
- **Intrusion Detection System (IDS):** Monitors network traffic for signs of malicious activity, unauthorized access, or security breaches.
- Security Information and Event Management (SIEM): Provides real-time visibility into security incidents by aggregating and analysing security event data from multiple sources.
- **Vulnerability:** A weakness or flaw in software, hardware, or processes that can be exploited to gain unauthorized access or cause damage.
- **Phishing:** A technique used by attackers to deceive individuals into divulging sensitive information, such as usernames, passwords, and credit card details, by posing as a trustworthy entity.
- **Ransomware:** Malicious software that encrypts files or systems, rendering them inaccessible until a ransom is paid.
- **Forensic Analysis:** The process of collecting, preserving, and analysing digital evidence to investigate and respond to security incidents.
- **Containment:** Actions taken to limit the spread and impact of a security incident.
- **Eradication:** The process of removing threats and vulnerabilities from systems after a security incident.
- **Recovery:** Actions taken to restore normal operations and ensure data integrity after a security incident.
- **Post-Incident Review:** A structured review and analysis of the response to a security incident to identify lessons learned, areas for improvement, and corrective actions.
- **Root Cause Analysis (RCA):** A methodical investigation process used to determine the underlying cause or causes of a security incident.
- Least Privilege Principle: The security principle that users, processes, and systems should be granted only the minimum level of access or permissions necessary to perform their intended tasks.
- **Credential Theft:** The unauthorized acquisition of user credentials, such as usernames and passwords, often used to facilitate further attacks or unauthorized access.
- **Lateral Movement:** The process of moving within a network to access additional systems and data after gaining initial access.
- **Privilege Escalation:** The act of increasing the level of access or permissions granted to a user or application, typically to gain unauthorized control over system resources or sensitive data.
- **Zero-Day Vulnerabilities:** Previously unknown security holes in software or systems that leave organizations exposed to exploitation by malicious actors.