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Question: 1

A Security Operations Center (SOC) using Palo Alto Networks XSOAR for incident management receives a high volume of alerts daily. An analyst is tasked with prioritizing incidents related to potential data exfiltration. Which of the following incident categorization criteria, when combined, would MOST effectively facilitate accurate prioritization for data exfiltration incidents, considering both technical indicators and business impact?

- A. Source IP Geolocation and Destination Port. While useful, these alone may not capture the full context of data exfiltration.
- B. Threat Intelligence Feed Match (e.g., C2 IP from Unit 42) and Affected Asset Criticality (e.g., Crown Jewel Asset). This combines technical indicators with business impact for effective prioritization.
- C. Time of Day and User Department. These are primarily contextual and less indicative of immediate threat severity.
- D. Alert Volume from a specific sensor and Protocol Used. Alert volume can be misleading, and protocol alone might not signify exfiltration.
- E. File Hash Reputation (WildFire) and Endpoint OS Version. File hash is good for malware, but OS version isn't a primary exfiltration indicator.

Answer: B

Explanation:

Effective incident prioritization for data exfiltration requires a combination of strong technical indicators and an understanding of the business impact. Matching an IP to a known Command and Control (C2) server from a reputable threat intelligence source like Unit 42 (Palo Alto Networks' threat research team) provides a high-fidelity technical indicator of a potential breach. Coupling this with the criticality of the affected asset (e.g., a server hosting sensitive customer data, classified as a 'Crown Jewel') directly informs the business risk, enabling accurate prioritization. Other options either lack sufficient technical specificity for exfiltration or don't adequately account for business impact.

Question: 2

A large enterprise is implementing a new incident response playbooks within Palo Alto Networks Cortex XSOAR. They need to define a comprehensive incident categorization schema that supports dynamic prioritization based on the MITRE ATT&CK framework and internal asset criticality ratings. Which of the following XSOAR automation snippets, when integrated, best demonstrates an approach to dynamically categorize and prioritize an incident based on the detection of a 'Lateral Movement' technique (T 1021 – Remote Services) and the involved asset's 'Crown Jewel' status?

A.

```
incident.set('category', 'Lateral Movement');  
incident.set('priority', 'Medium');
```

This is too static and doesn't account for dynamic prioritization based on asset criticality.

B.

```
if 'T1021' in incident.tags and 'CrownJewel' in incident.assets.get('criticality'):
    incident.set('category', 'Advanced Persistent Threat');
    incident.set('severity', 'Critical');
elif 'T1021' in incident.tags:
    incident.set('category', 'Internal Network Compromise');
    incident.set('severity', 'High');
```

This snippet correctly uses ATT&CK tags and asset criticality to dynamically categorize and assign severity, which directly influences prioritization.

C.

```
incident.set('incidentName', 'T1021 Detected');
incident.set('owner', 'SOC_Team_A');
```

This snippet is for incident naming and assignment, not categorization or prioritization logic.

D.

```
incident.addTag('MITRE_T1021');
incident.addTag('Affected_Server');
```

This snippet only adds tags, which can be used for categorization later, but doesn't implement the prioritization logic itself.

E.

```
incident.set('status', 'Open');
incident.set('playbook', 'LateralMovementPlaybook');
```

This snippet sets status and assigns a playbook, not directly addressing categorization or dynamic prioritization.

Answer: B

Explanation:

Option B best demonstrates dynamic categorization and prioritization. It checks for the presence of the MITRE ATT&CK technique ID (T1021) in the incident's tags (assuming these tags are applied by initial detection mechanisms or XSOAR ingestion). Crucially, it then checks the criticality of the involved assets. If both 'T1021' and 'CrownJewel' criticality are present, it elevates the category to 'Advanced Persistent Threat' and sets the severity to 'Critical', indicating a high-priority incident. If only 'T1021' is present, it assigns a 'High' severity, still acknowledging the threat but indicating a potentially lower business impact. This logic directly maps to a robust categorization and prioritization scheme.

Question: 3

During a post-incident review of a successful ransomware attack, the incident response team identifies that initial alerts were generated but deprioritized due to an 'Information' severity classification. Analysis reveals the alerts, while individually low-fidelity, collectively pointed to a reconnaissance phase followed by credential access on a critical server. What adjustment to the incident categorization and prioritization framework would be most effective in preventing similar oversights?

- A. Implement an automated system to escalate any 'Information' level alert to 'Low' severity after 24 hours, regardless of context.
- B. Mandate manual review of all 'Information' severity alerts by a Tier 1 SOC analyst within 1 hour of generation.
- C. Develop correlation rules in the SIEM (e.g., Splunk, QRadar) or SOAR (e.g., XSOAR) to elevate incident severity based on sequences of related low-severity events targeting high-value assets.
- D. Increase the threshold for all network-based alerts by 50% to reduce false positives and focus only on high-severity alerts.
- E. Categorize all alerts related to critical servers as 'High' severity by default, irrespective of the initial detection's confidence level.

Answer: C

Explanation:

The core issue described is the failure to recognize a low-and-slow attack chain composed of individually low-fidelity events. Implementing correlation rules (Option C) in the SIEM or SOAR is the most effective solution. This allows the system to analyze multiple seemingly innocuous events in sequence, identify patterns indicative of an attack (e.g., reconnaissance followed by credential access on a critical asset), and then automatically elevate the aggregated incident's severity and priority. Options A and B are inefficient or reactive. Option D risks missing legitimate threats. Option E would lead to significant alert fatigue and false positives, overwhelming analysts.

Question: 4

A threat intelligence team produces a report on a new APT group known for targeting specific industry sectors using novel obfuscation techniques. This report includes IOCs (Indicators of Compromise) and TTPs (Tactics, Techniques, and Procedures). How should this intelligence be integrated into an organization's incident categorization and prioritization process to maximize its impact?

- A. The IOCs should be immediately blocked at the firewall, and the TTPs added to a static incident classification matrix.
- B. The IOCs should be used to create new detection rules with a 'Critical' severity, and the TTPs should inform playbooks and analyst training for identifying related behavioral anomalies and dynamically assigning higher priority to incidents matching these TTPs.
- C. The report should be circulated to all IT staff for awareness, and any alerts matching the IOCs should be manually reviewed daily.
- D. Only the IOCs should be ingested into the SIEM as watchlists, and TTPs should be ignored as they are too abstract for direct prioritization.
- E. The intelligence should primarily be used for retrospective hunting exercises and not directly integrated into real-time categorization.

Answer: B

Explanation:

Integrating threat intelligence effectively means leveraging both IOCs and TTPs. IOCs (like hashes, IPs, domains) are excellent for creating specific, high-fidelity detection rules (Option B), which can be

automatically assigned a high severity due to the known threat actor. TTPs, being behavioral patterns, are crucial for informing and refining incident categorization and prioritization beyond just IOC matches. By understanding the APT group's TTPs, security teams can: 1) Create more sophisticated detection logic in the SIEM/EDR, 2) Develop or modify XSOAR playbooks to look for combinations of events that align with these TTPs, and 3) Train analysts to recognize these behaviors, allowing them to dynamically assign higher priority to incidents exhibiting these characteristics, even if no explicit IOCs are present. This holistic approach significantly improves detection and response capabilities.

Question: 5

An organization is migrating its security operations to a cloud-native environment, leveraging Palo Alto Networks Prisma Cloud for security posture management and cloud workload protection. Incident response requires adapting existing on-premise prioritization schemes. Which of the following factors becomes SIGNIFICANTLY more impactful for incident prioritization in a cloud-native context compared to traditional on-premise environments?

- A. The physical location of the server hosting the affected application. This is less relevant in cloud as physical location is abstracted.
- B. The organizational unit responsible for the application. While important, this is a consistent factor.
- C. The specific cloud service (e.g., S3 bucket, Lambda function, Kubernetes pod) involved and its configured IAM permissions. Misconfigurations or compromises of these can have rapid, widespread impact.
- D. The brand of the underlying hardware vendor. Cloud abstracts hardware, making this irrelevant.
- E. The patching cycle of the operating system. While important, patching is often automated or managed differently in cloud, and other cloud-specific factors take precedence.

Answer: C

Explanation:

In a cloud-native environment, the specific cloud service and its IAM (Identity and Access Management) permissions are paramount for incident prioritization. A misconfigured S3 bucket with public access, a compromised Lambda function with excessive permissions, or a vulnerable Kubernetes pod could lead to rapid data exposure, privilege escalation, or resource abuse, often with broader and faster impact than traditional on-premise incidents. The blast radius and potential for lateral movement are heavily influenced by cloud service configurations and IAM. This makes understanding and prioritizing based on these factors critical.

Question: 6

Consider an incident categorization and prioritization framework within Palo Alto Networks XSOAR. An analyst identifies an alert indicating a 'Brute Force' attempt (MITRE ATT&CK T 1110) against an administrative service. The asset involved is tagged in XSOAR as having 'PCI-DSS Data' and 'Internet-Facing'. Which of the following XSOAR automation script segments would correctly classify this incident as 'Critical' and categorize it appropriately, adhering to best practices for a compliance-driven environment? (Select all that apply)

A.

```
if 'T1110' in incident.get('mitre_techniques') and 'PCI-DSS Data' in incident.get('asset_tags') and 'Internet-Facing' in incident.get('asset_tags'):
    incident.set('severity', 'Critical');
    incident.set('category', 'Compliance Breach Attempt');
```

This script correctly identifies the attack type, compliance context, and exposure, leading to the highest severity and a compliance-specific category.

B.

```
if 'Brute Force' in incident.get('name') or 'T1110' in incident.get('playbook_tags'):
    if incident.get('affected_asset_type') == 'Admin_Server' and incident.get('network_exposure') == 'External':
        incident.set('severity', 'High');
        incident.set('category', 'Credential Attack');
```

While functional, it uses less precise incident attributes ('name', 'playbook_tags') and a slightly lower severity ('High') for what should be a critical incident given the full context.

C.

```
# Assume a pre-defined 'CriticalAssets' list in a global XSOAR lookup
if 'T1110' in incident.get('mitre_techniques') and incident.get('affected_asset_id') in demisto.get(CriticalAssets):
    incident.set('severity', 'Critical');
    incident.set('category', 'TopTier Attack');
```

This is a valid approach if 'CriticalAssets' properly identifies assets with PCI-DSS data and internet exposure, and 'TopTier Attack' is an appropriate category for critical compliance-related incidents.

D.

```
incident.set('severity', 'Low');
incident.set('category', 'AlertReview'); # Default categorization, no specific prioritization logic
```

This script sets a low severity and generic category, failing to account for the critical nature of the alert.

E.

```
incident.addTag('BruteForce');
incident.addTag('PCI_Related');
incident.set('owner', 'Compliance_Team');
```

This adds tags and assigns an owner, which is good for follow-up, but doesn't set severity or a specific categorization that directly impacts immediate prioritization.

Answer: A,C

Explanation:

Both A and C are valid approaches for critical categorization. Option A directly checks for the MITRE technique tag and specific asset tags ('PCI-DSS Data', 'Internet-Facing'), which are explicit indicators of high risk in a compliance-driven environment, leading to a 'Critical' severity and a 'Compliance Breach Attempt' category. Option C leverages a pre-defined list of 'CriticalAssets' (which should encompass assets with PCI-DSS data and internet exposure) and the MITRE technique. If the 'CriticalAssets' list is accurately maintained and 'TopTier Attack' is an appropriate category for such a high-impact incident in their schema, this is also a very effective and scalable method. Option B uses less precise attributes and a slightly lower severity. Options D and E fail to address the core prioritization requirement.

Question: 7

An organization is using a bespoke vulnerability management system that integrates with Palo Alto Networks Panorama for firewall rule management and XSOAR for incident orchestration. A new zero-day vulnerability (CVE-2023-XXXX) affecting a critical web application is disclosed. The vulnerability

management system flags all instances of this application. For effective incident categorization and prioritization, what dynamic attributes or processes are crucial to incorporate, going beyond mere vulnerability detection?

- A. The CVSS score of the CVE and the number of affected instances. While important, these are static at disclosure and don't reflect environmental factors or active exploitation.
- B. Leveraging external threat intelligence feeds (e.g., Unit 42, CISA KEV) to confirm active exploitation of CVE-2023-XXXX in the wild, correlating with observed network traffic (e.g., Palo Alto Networks firewall logs for unusual HTTP requests), and assessing the business impact of the specific web application.
- C. Assigning all alerts related to CVE-2023-XXXX to the highest priority, irrespective of whether the application is internet-facing or handles sensitive data.
- D. Prioritizing remediation based solely on the operating system of the affected server, as OS-level vulnerabilities are always most critical.
- E. Ignoring the vulnerability until a patch is released, as immediate action is often disruptive.

Answer: B

Explanation:

Prioritizing a zero-day vulnerability goes far beyond its static CVSS score or the number of affected systems. Option B outlines a comprehensive, dynamic approach: 1) Active Exploitation Confirmation: External threat intelligence (like CISA KEV or Unit 42 reports) indicating active exploitation in the wild immediately elevates the threat. 2) Correlated Network Activity: Analyzing Palo Alto Networks firewall logs or other network telemetry for unusual traffic patterns (e.g., specific HTTP requests, C2 communications) that align with known exploitation attempts for that CVE provides high-fidelity in-house detection. 3) Business Impact Assessment: Understanding the criticality of the specific web application (e.g., public-facing, handles sensitive customer data, critical business function) is paramount. Combining these three dynamic factors allows for truly informed categorization (e.g., 'Active Zero-Day Exploitation on Crown Jewel Asset') and prioritization (e.g., 'Critical - Immediate Containment'). Options A, C, D, and E represent static, overly broad, or negligent approaches.

Question: 8

A global enterprise manages its security incidents using Palo Alto Networks XSOAR. The CEO's laptop, classified as a 'Tier 0' asset, triggers an alert for an 'Unknown Malware Execution' (WildFire verdict: 'Grayware'). Historically, 'Grayware' on endpoints has been deprioritized. However, given the asset's criticality, the SOC needs a dynamic prioritization mechanism. Which set of XSOAR automation steps and corresponding incident attributes should be leveraged to ensure this incident is elevated appropriately, even with a 'Grayware' verdict?

- ☐ Step 1: Set incident category to 'Malware' and severity to 'Low'. Step 2: Manually check asset owner. This is reactive and doesn't dynamically elevate.
- ☐ Step 1: Configure an XSOAR pre-processing rule to enrich incidents with asset criticality based on CMDB integration (e.g., 'Tier 0'). Step 2: Implement a conditional XSOAR playbook task: IF 'WildFire_Verdict' == 'Grayware' AND 'Asset_Criticality' == 'Tier 0', THEN set incident 'Severity' to 'High' and 'Category' to 'Executive Compromise Attempt'.
- ☐ Step 1: Create a custom XSOAR field 'is_CEO_Laptop'. Step 2: If 'is_CEO_Laptop' is 'true', set severity to 'Critical' regardless of WildFire verdict. This is overly broad and doesn't consider the specific 'Grayware' context.
- ☐ Step 1: Block the 'Grayware' hash at the firewall. Step 2: Close the incident automatically. This bypasses proper prioritization and investigation based on asset criticality.
- ☐ Step 1: Assign the incident to the endpoint team with 'Informational' priority. Step 2: Await their manual assessment. This fails to address the immediate prioritization need for a critical asset.

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: B

Explanation:

Option B provides the most robust and dynamic solution. The key is to integrate asset criticality into the incident enrichment and subsequent prioritization logic. Step 1, using an XSOAR pre-processing rule, automatically enriches the incident data with the 'Tier 0' criticality from the CMDB. This means the incident context always includes the asset's importance. Step 2, the conditional playbook task, is crucial: it explicitly checks for both the 'Grayware' verdict AND the 'Tier 0' asset criticality. When both conditions are met, it overrides the default 'Grayware' low severity and elevates the incident to 'High' severity with a specific category like 'Executive Compromise Attempt', ensuring it receives immediate attention despite the initially 'lower' malware verdict. This demonstrates a sophisticated understanding of context-aware incident prioritization.

Question: 9

A Security Operations Center (SOC) using Cortex XDR observes a high-severity alert indicating a potential ransomware attack. The alert details include a specific file hash (SHA256: e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855) associated with a suspicious process. Which of the following Cortex XDR and Cortex XSOAR capabilities would be most effective in leveraging this file indicator for rapid investigation and containment?

- A. Automatically querying AutoFocus for intelligence on the file hash to determine its reputation and associated campaigns, then blocking it via WildFire.
- B. Using the file hash in a Cortex XDR 'Live Terminal' session to remotely delete the suspicious file from affected endpoints.
- C. Configuring a custom 'Exclusion' in Cortex XDR for this specific file hash to prevent future alerts.
- D. Leveraging a Cortex XSOAR playbook to initiate a 'War Room' discussion with the incident response team.
- E. Submitting the file hash to the public VirusTotal API and awaiting a community verdict before taking action.

Answer: A

Explanation:

Option A is the most effective. Cortex XDR integrates with AutoFocus, Palo Alto Networks' threat intelligence service, which can provide immediate context and reputation for file hashes. If the hash is known malicious, WildFire (Palo Alto Networks' cloud-delivered malware analysis service) can be used to generate a signature and prevent execution, effectively blocking it across the network. This demonstrates the seamless integration of file indicators for rapid threat intelligence lookup and prevention. Option B is a reactive measure, and deleting a file without full context can be risky. Option C

is incorrect; you would want to block, not exclude, a malicious file. Option D is a procedural step but doesn't directly leverage the file indicator for technical containment. Option E relies on external, potentially slower public services.

Question: 10

During a forensic investigation using Cortex XDR, an analyst discovers a persistent backdoor communicating with an external IP address (192.0.2.100). The analyst needs to quickly determine if this IP address is associated with known malicious activity and implement a preventative measure. Which of the following actions, leveraging Cortex products, would be the most efficient and comprehensive approach?

- A. Manually add 192.0.2.100 to a custom Block List on the Next-Generation Firewall (NGFW) and then perform a 'Threat Vault' lookup in Cortex XDR.
- B. Utilize Cortex XSOAR to orchestrate a lookup of 192.0.2.100 against multiple integrated threat intelligence feeds (e.g., Unit 42, AlienVault OT X), and if identified as malicious, automatically push a dynamic block rule to all relevant NGFWs.
- C. Initiate a 'Live Response' session in Cortex XDR on affected endpoints to block outbound connections to 192.0.2.100 locally.
- D. Perform a 'Packet Capture' in Cortex XDR for all traffic to and from 192.0.2.100 to gather more evidence before taking any action.
- E. Create a new 'Alert Rule' in Cortex XDR specifically for connections to 192.0.2.100 to monitor future attempts.

Answer: B

Explanation:

Option B represents the most efficient and comprehensive approach. Cortex XSOARs orchestration capabilities allow for automated enrichment of IP addresses using various threat intelligence sources. More importantly, if confirmed malicious, XSOAR can automatically push block rules to NGFWs, ensuring network-wide prevention. Option A involves manual steps and doesn't leverage the full automation potential. Option C is a per-endpoint solution, not network-wide. Option D is an investigative step, not a preventative measure. Option E is monitoring, not blocking.

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