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Domain 4. Incident Response	
Incident Response Phases	 Preparation Detection & Analysis Containment Eradication & Recovery Post Incident Activity
Communication plan	 Limiting communication to trusted parties Disclosing based on regulatory/legislative requirements Preventing inadvertent release of information Using a secure method of communication Reporting requirements
Reporting Requirements - Type of Breach	 Data exfiltration Insider data exfiltration Device theft/loss Accidental data breach Integrity/availability
Response coordination	 Legal Human resources Public relations Internal and external Law enforcement Senior leadership Regulatory bodies
Data Criticality and Prioritization	 Personally Identifiable Information (PII) Sensitive Personal Information (SPI) Personal Health Information (PHI) Financial Information Intellectual property (IP) Corporate Information high value asset (HVA)
Preparation Phase	- Training - Testing - Documentation of procedures
Documentation of Procedures	- Incident Response Plan - Call List/Escalation List - Incident Form
OODA loop	- Observe - Orient - Decide - Act
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Domain 4. Incident Response (cont)	
Defensive Capabilities	- Detect - Destroy - Degrade - Disrupt - Deny - Deceive
Immediate impact	direct costs incurred because of an incident
Total impact	costs that arise following the incident, including damage to the company's reputation
Incident Security Level Classification characteristics (Detection & Analytics)	 Data integrity System process criticality Downtime Economic Data correlation Reverse engineering Recovery time Detection time
Containment	- Isolation-Based Containment - Segmentation-based Containment
Containment principals	 Ensure the safety and security of all personnel. Prevent ongoing intrusion or data breach. Identify whether the intrusion is the primary attack or a secondary one (part of a more complex campaign). Avoid alerting the attacker to the fact that the intrusion has been discovered. Preserve forensic evidence of the intrusion.
Eradication	 Sanitization and Secure Disposal (cryptographic erase, zero-fill) Reconstruction/Reimaging Reconstitution of Resources
cryptographic erase	A method of sanitizing a self-encrypting drive by erasing the media encryption key
zero-fill	A method of sanitizing a drive by setting all bits to zero.
Secure disposal	physical destruction by mechanical shredding or incineration
Reimage	A method of restoring a system that has been sanitized using an image-based backup.
Reconstruction	A method of restoring a system that has been sanitized using scripted installation routines and templates.
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Domain 4. Incident Response (cont)		
Reconstitution	A method of restoring a system that cannot be sanitized using manual removal, reinstallation, and monitoring processes.	
Recovery	 Patching Restoration of Permissions Verification of Logging/Communication to Security Monitoring Vulnerability Mitigation and System Hardening 	
Post-Incident Activities	- Report Writing - Incident Summary Report - Evidence Retention	
Domain 3. See	urity Operations and Monitoring Domain 3. Security Operations and Monitoring (cont)	
heuristic	A method that uses feature comparisons and User and - analysis process supporting identification of	

heuristic analysis	A method that uses feature comparisons and likenesses rather than specific signature matching to identify whether the target of observation is malicious.
Endpoint Data Collection and Analytics Tools	 Anti-virus (A-V) Host-Based Intrusion Detection/Prevention (HIDS/HIPS) Endpoint Protection Platform (EPP) Endpoint Detection and Response (EDR) User and Entity Behavior Analytics (UEBA)
Endpoint Protection Platform (EPP)	 a single agent performing multiple security tasks and features. (malware/IDP), host firewall, web content filtering, (DLP) enforcement, and file/message encryption. In an enterprise solution, there will also be a single management dashboard for configuring and monitoring hosts. mostly signature-based detection and prevention
Endpoint Detection and Response (EDR)	 focused on logging of endpoint observables and indicators combined with behavioral- and anomaly- based analysis. to provide real-time and historical visibility, contai- nment, and facilitate remediation of the host to its original state.

User and Entity Behavior Analytics (UEBA)	 analysis process supporting identification of malicious behaviors from comparison to a baseline tracks user account behavior across different devices and cloud services
Sandboxing	technique that isolates untrusted data in a closed virtual environment to conduct tests and analyze the data for threats and vulnerabilities.
Disass- emblers and Decompilers	software that translate low-level machine language code into higher level code
Malware Exploit Techniques	 Malware Exploit Techniques Maintain access Strengthen access Actions on objectives Concealment
Living off the land	subvert existing architecture, such as Windows PowerShell, to perform the malicious activity.



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