CIS Top 20 #19

Incident Response and Management

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CSC # # 19

Protect the organization’s information, as well as its reputation, by developing and implementing an incident response infrastructure (e.g., plans, defined roles, training, communications, management oversight) for quickly discovering an attack and then effectively containing the damage, eradicating the attacker’s presence, and restoring the integrity of the network and systems.
In short, a well-crafted IR plan will help your organization perform at its best by preparing for the worst.
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Why Is This Control Critical?
ICS Cyber Security Control Framework

- Procedural Security Controls
- Operational Security Controls
- Technological Security Controls
- Physical Security Controls
- Regulatory & Compliance Controls

Understanding the Control types
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If your company suffers a data breach or a phishing, ransomware, or DDoS attack, are you prepared to respond?
An incident response plan can speed forensic analysis, minimizing the duration of a security incident and shortening recovery time.
Key sections to include in an incident response plan

- Policy, definition and scope.
- A diagrammatic representation of the process
- Incident reporting
- First responders: contact details, roles and responsibilities
- Incident assessment
- Incident countermeasures
- Identifying corrective actions
- Monitoring corrective actions
Different types of security attacks merit different response strategies. It is important that your incident response plan details separate procedures (runbooks) for various types of incidents, such as:

- Malware/ransomware outbreaks
- Phishing attacks
- Data loss/theft
- DDoS
- Unauthorized access
- Privilege escalation
- Improper use
Key considerations for incident response planning

- Senior management support is essential
- Keep the plan simple.
- Communicate regularly on the incident status
- Review and test
- Be flexible
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Components of an incident response plan
- Preparation
- Identification
- Containment
- Eradication
- Recovery
- Lessons learned
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BUILD YOUR IR TEAM
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TEST YOUR PLAN
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INCIDENT RESPONSE AWARENESS
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ADDITIONAL CONSIDERATIONS:
- JOIN COMMUNITIES
- MANAGED DETECTION & RESPONSE
- INCIDENT RETAINER
- CYBER-INSURANCE
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How to Get Started

Step 1.   Gap Assessment.
  2.   Implementation Roadmap
  3.   Implement the First Phase of Controls
  4.   Integrate Controls into Operations
  5.   Report and Manage Progress
Sample Gap questions

1. Does the organization have a detailed, documented incident response plan in place?
2. Has the organization’s incident response plan been approved and endorsed by senior management?
3. Are the roles of all classes of organizational staff defined in the incident response plan?
4. Have contact plans been established for engaging law enforcement during an incident?
5. Have incident handlers and staff been properly trained in technical capabilities for handling incidents?
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<tr>
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<td>Ensure that there are written incident response procedures that include a definition of personnel roles for handling incidents. The procedures should define the phases of incident handling.</td>
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<td><strong>19.2</strong></td>
<td>Assign job titles and duties for handling computer and network incidents to specific individuals.</td>
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<td>Define management personnel who will support the incident handling process by acting in key decision-making roles.</td>
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<td>Devise organization-wide standards for the time required for system administrators and other personnel to report anomalous events to the incident handling team, the mechanisms for such reporting, and the kind of information that should be included in the incident notification. This reporting should also include notifying the appropriate Community Emergency Response Team in accordance with all legal or regulatory requirements for involving that organization in computer incidents.</td>
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<td><strong>19.5</strong></td>
<td>Assemble and maintain information on third-party contact information to be used to report a security incident (e.g., maintain an e-mail address of <a href="mailto:security@organization.com">security@organization.com</a> or have a web page <a href="http://organization.com/security">http://organization.com/security</a>).</td>
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<td>Publish information for all personnel, including employees and contractors, regarding reporting computer anomalies and incidents to the incident handling team. Such information should be included in routine employee awareness activities.</td>
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<td>Conduct periodic incident scenario sessions for personnel associated with the incident handling team to ensure that they understand current threats and risks, as well as their responsibilities in supporting the incident handling team.</td>
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• 19-5 - Assemble and maintain information on third-party contact information to be used to report a security incident (e.g., maintain an e-mail address of security@organization.com or have a web page http://organization.com/security).
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You are invited!!

- SynerComm IT Summit
- October 22-23rd
- Milwaukee @ Potawatomi
- Enabling Secure Digital Transformation
- Registration
Thank you for Attending.

Hope you can join us for the Complete CIS Top 20 CSC

Tuesday October 16th

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Pentest and Red team Exercises