

(P) Preparation	(I) Identification	(C) Containment
<div>1. Patch asset vulnerabilities</div> <div>2. Perform routine inspections of controls/weapons</div> <div>3. Maintain Antivirus/EDR application updates</div> <div>4. Create network segmentation</div> <div>5. Log traffic between network segments</div> <div>6. Incorporate threat intelligence</div> <div>7. Perform routine inspections of asset backups</div> <div>8. Conduct phishing simulations</div> <div>9. Conduct user security awareness training</div> <div>10. Conduct response training (this PBC)</div> <div>11. Use a data loss prevention (DLP) strategy to categorize sensitive data, identify data formats indicative of personal identifiable information (PII), and restrict exfiltration of sensitive data ^[7]</div> <div>12. Restrict the use of unnecessary web services, block certain websites and ability to download. Disable Javascript ^[8]</div>	<div>1. Monitor for:<div>a. Command executions that are using a legitimate web service to exfiltrate data instead of performing their intended purpose ^[2]</div><div>b. Legitimate web services that are attempting to access data instead of performing their intended purpose ^[3]</div><div>c. New network connections to services associated with abnormal or non-browser processes ^[4]</div><div>d. Packets and communications that do not follow their expected protocol standards ^[5]</div><div>e. Abnormal traffic flow of data ^[6]</div></div> <div>2. Investigate and clear ALL alerts associated with the impacted assets or accounts</div> <div>3. Routinely check firewall, IDS, IPS, and SIEM logs for any unusual activity</div>	<div>1. Inventory (enumerate & assess)</div> <div>2. Detect Deny Disrupt Degrade Deceive Destroy</div> <div>3. Observe -> Orient -> Decide -> Act</div> <div>4. Issue perimeter enforcement for known threat actor locations</div> <div>5. Archive scanning related artifacts such as IP addresses, user agents, and requests</div> <div>6. Determine the source and pathway of the attack</div> <div>7. Fortify non-impacted critical assets</div>
(E) Eradication	(R) Recovery	(L) Lessons/Opportunities
<div>1. Close the attack vector by applying the Preparation steps listed above</div> <div>2. Perform endpoint/AV scans on targeted systems</div> <div>3. Reset any compromised passwords</div> <div>4. Inspect ALL assets and user activity for IOC consistent with the attack profile</div> <div>5. Inspect backups for IOC consistent with the attack profile PRIOR to system recovery</div> <div>6. Patch asset vulnerabilities</div>	<div>1. Restore to the RPO (Recovery Point Objective) within the RTO (Recovery Time Objective)</div> <div>2. Address any collateral damage by assessing exposed technologies</div> <div>3. Resolve any related security incidents</div> <div>4. Restore affected systems to their last clean backup</div>	<div>1. Perform routine cyber hygiene due diligence</div> <div>2. Engage external cybersecurity-as-a-service providers and response professionals</div> <div>3. Implement policy changes to reduce future risk</div> <div>4. Utilize newly obtained threat signatures</div> <div>5. Avoid opening email and attachments from unfamiliar senders</div> <div>6. Avoid opening email attachments from senders that do not normally include attachments</div> <div>7. Pay attention to unusual behavior exhibited by trusted parties</div> <div>8. Remember that data and events should not be viewed in isolation but as part of a chain of behavior that could lead to other activities</div>
		<div>References:</div> <div>1. https://attack.mitre.org/techniques/T1567/</div> <div>2. https://attack.mitre.org/datasources/DS0017/#Command%20Execution</div> <div>3. https://attack.mitre.org/datasources/DS0022/#File%20Access</div> <div>4. https://attack.mitre.org/datasources/DS0029/#Network%20Connection%20</div> <div>5. https://attack.mitre.org/datasources/DS0029/#Network%20Traffic%20Con</div> <div>6. https://attack.mitre.org/datasources/DS0029/#Network%20Traffic%20Flow</div> <div>7. https://attack.mitre.org/mitigations/M1057/</div> <div>8. https://attack.mitre.org/mitigations/M1021/</div>

Resources:

- GuardSight GSVSOC Incident Response Plan: https://github.com/guardsight/gsvsoc_cybersecurity-incident-response-plan
- IT Disaster Recovery Planning: <https://www.ready.gov/it-disaster-recovery-plan>
- Report Cybercrime: <https://www.ic3.gov/Home/FAQ>

