

(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 user security awareness training</div> <div>9. Conduct response training (this PBC)</div> <div>10. 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>11. Restrict the use of unnecessary web services, block certain websites and ability to download. Disable Javascript [8]</div>	<div>1. Monitor for:<div><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> <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. 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><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%20Creation</div><div>5. https://attack.mitre.org/datasources/DS0029/#Network%20Traffic%20Content</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></div>