

(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. Adhere to the principle of least privilege ^[4]</div> <div>9. Restrict access to logon scripts to Administrators ^[4]</div> <div>10. Ensure appropriate Registry Hive permissions and restrictions are in place ^[5]</div> <div>11. Conduct user security awareness training</div> <div>12. Conduct response training (this PBC)</div>	<div>1. Monitor for:<div>a. Unauthorized changes to Active Directory startup scripts ^[2]</div><div>b. The execution of logon scripts by unusual accounts or at unusual times ^[1]</div><div>c. New files, scripts, or registry keys that run automatically at either bootup or logon ^[3]</div><div>d. Unusual changes made to existing files or processes ^[1]</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>1. https://attack.mitre.org/techniques/T1037/</div><div>2. https://attack.mitre.org/datasources/DS0026/</div><div>3. https://attack.mitre.org/datasources/DS0024/</div><div>4. https://attack.mitre.org/mitigations/M1022/</div><div>5. https://attack.mitre.org/mitigations/M1024/</div></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>

