

(P) Preparation	(I) Identification	(C) Containment
<div>1. Patch asset vulnerabilities</div> <div>2. Perform routine inspections of controls/weapons</div> <div>3. Ensure antivirus/endpoint protection software is installed on workstations and laptops</div> <div>4. Regularly update virus definitions and signatures</div> <div>5. Conduct employee security awareness training</div> <div>6. Ensure all software is kept up to date</div> <div>7. Restrict users to the least privileges required</div> <div>8. Utilize threat intelligence to make informed decisions about defensive priorities</div> <div>9. Use application control to whitelist approved password storage applications <sup>[1]</sup></div> <div>10. Ensure that servers and workstations are logging to a central location</div>	<div>1. Monitor for:<div>a. Searches to process memory for common credential keywords, such as; password, pwd, login, store, secure, credentials, etc. <sup>[2]</sup></div><div>b. Automated tools scanning memory for passwords</div><div>c. Storage of passwords in plaintext</div><div>d. Abnormal activity around all authorized password storage applications</div><div>e. Use of unauthorized password storage applications</div><div>f. Access to web browser password storage database files <sup>[3]</sup></div></div> <div>2. Investigate and clear ALL alerts</div>	<div>1. Inventory (enumerate &amp; assess) environment technologies</div> <div>2. Detect   Deny   Disrupt   Degrade   Deceive   Destroy</div> <div>3. Observe -&gt; Orient -&gt; Decide -&gt; Act</div> <div>4. Utilize EDR hunter/killer agents to terminate offending processes</div> <div>5. Remove the affected system from the network</div> <div>6. Determine the source and pathway of the attack</div> <div>7. Issue a perimeter enforcement for known threat actor locations</div>
(E) Eradication	(R) Recovery	(L) Lessons/Opportunities
<div>1. Close the attack vector</div> <div>2. Create forensic backups of affected systems</div> <div>3. Perform endpoint/AV scans on affected systems</div> <div>4. Reset any compromised passwords</div> <div>5. Inspect ALL assets and user activity for IOC consistent with the attack profile</div> <div>6. Inspect backups for IOC consistent with the attack profile PRIOR to system recovery</div> <div>7. Patch asset vulnerabilities</div> <div>8. Remove all instances of credentials that were stored insecurely</div> <div>9. Reset the passwords of any compromised accounts</div>	<div>1. Restore to the RPO within the RTO</div> <div>2. Address any collateral damage</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><div>References:</div><div>1. MITRE ATT&amp;CK Mitigation M1038: <a href="https://attack.mitre.org/mitigations/M1038/">https://attack.mitre.org/mitigations/M1038/</a></div><div>2. MITRE ATT&amp;CK Technique T1555: <a href="https://attack.mitre.org/techniques/T1555/">https://attack.mitre.org/techniques/T1555/</a></div><div>3. MITRE ATT&amp;CK Technique T1555 Sub-technique 003: <a href="https://attack.mitre.org/techniques/T1555/003/">https://attack.mitre.org/techniques/T1555/003/</a></div></div>

Resources:

→ GuardSight GSVSOC Incident Response Plan: [https://github.com/guardsight/gsvsoc\\_cybersecurity-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>