

(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. Limit credential overlap across accounts and systems</div> <div>5. Ensure that servers and workstations are logging to a central location</div> <div>6. Confirm that Domain Controller backups are properly secured</div> <div>7. Avoid placing domain accounts in local administrator groups across systems</div> <div>8. Add users to the "Protected Users" AD security group to limit the caching of plaintext credentials</div> <div>9. Consider disabling WDigest authentication and disabling or restricting NTLM</div>	<div>1. Monitor processes and command-line arguments for indicators of credential dumping</div> <div>2. Identify unexpected processes interacting with lsass.exe</div> <div>3. Detect Security Accounts Manager (SAM) access on the local file system</div> <div>4. Monitor domain controller logs for replication requests and unscheduled activity</div> <div>5. On Windows 8.1 and Windows Server 2012 R2, monitor Windows Logs for lsass.exe and verify that it starts as a protected process</div> <div>6. Investigate and clear ALL alerts associated with impacted assets</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. 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. Review the logs of all impacted assets</div> <div>6. Patch asset vulnerabilities</div>	<div>1. Restore to the RPO within the RTO</div> <div>2. Assess and Address collateral damage</div> <div>3. Determine the root cause of the incident</div> <div>4. Resolve any related security incidents</div> <div>5. 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. Conduct employee security awareness training</div> <div>References:<div>1. MITRE ATT&CK Technique T1003: https://attack.mitre.org/techniques/T1003/</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>