CIRT Playbook Battle Card: GSPBC-1070 - Command and Control - Protocol Tunneling

(P) Preparation	(I) Identification	(C) Containment
 Patch asset vulnerabilities Perform routine inspections of controls/weapons Maintain Antivirus/EDR application updates Create network segmentation Log traffic between network segments Incorporate threat intelligence Perform routine inspections of asset backups Conduct user security awareness training Conduct response training (this PBC) Use network appliances to filter ingress or egress traffic and perform protocol-based filtering. Configure software on endpoints to filter network traffic [2] Network intrusion detection and prevention systems that use network signatures to identify traffic for specific adversary malware can be used to mitigate activity at the network level [3] 	 Monitor for: a. newly constructed network connections that are sent or received by untrusted hosts [4] b. network data exhibiting uncommon data flows. Processes utilizing the network that do not normally have network communication or have never been seen before are suspicious [4] Investigate and clear ALL alerts associated with the impacted assets or accounts Routinely check firewall, IDS, IPS, and SIEM logs for any unusual activity Monitor and analyze traffic patterns and packet inspection associated to protocol(s) that do not follow the expected protocol standards and traffic flows [4] 	 Inventory (enumerate & assess) Detect Deny Disrupt Degrade Deceive Destroy Observe -> Orient -> Decide -> Act Issue perimeter enforcement for known threat actor locations Archive scanning related artifacts such as IP addresses, user agents, and requests Determine the source and pathway of the attack Fortify non-impacted critical assets
(E) Eradication	(R) Recovery	(L) Lessons/Opportunities
 Close the attack vector by applying the Preparation steps listed above Perform endpoint/AV scans on targeted systems Reset any compromised passwords Inspect ALL assets and user activity for IOC consistent with the attack profile Inspect backups for IOC consistent with the attack profile PRIOR to system recovery Patch asset vulnerabilities 	 Restore to the RPO (Recovery Point Objective) within the RTO (Recovery Time Objective) Address any collateral damage by assessing exposed technologies Resolve any related security incidents Restore affected systems to their last clean backup 	 Perform routine cyber hygiene due diligence Engage external cybersecurity-as-a-service providers and response professionals Implement policy changes to reduce future risk Utilize newly obtained threat signatures 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 References:
		1. https://attack.mitre.org/techniques/T1572/ 2. https://attack.mitre.org/mitigations/M1037/ 3. https://attack.mitre.org/mitigations/M1031/ 4. https://attack.mitre.org/datasources/DS0029/