CIRT Playbook Battle Card: GSPBC-1081 - Impact - Endpoint Denial of Service

(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) Leverage services provided by Content Delivery Networks (CDN) or providers specializing in DoS mitigations to filter traffic upstream from services. [2] 	 Monitor for: a. third-party application logging, messaging, and/or other artifacts that may perform Endpoint Denial of Service (DoS) attacks to degrade or block the availability of services to users. [3] b. endpoint and web application logging where applicable. [3] c. traffic patterns and packet inspection associated to protocol(s) that do not follow the expected protocol standards and traffic flows. [4] d. uncommon data flows on the network. [4] e. logging, messaging, and other artifacts highlighting the health of host sensors (ex: metrics, errors, and/or exceptions from logging applications) [5] Investigate and clear ALL alerts associated with the impacted assets or accounts Routinely check firewall, IDS, IPS, and SIEM logs for any unusual activity 	 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 Filter boundary traffic by blocking source addresses sourcing the attack, blocking ports that are being targeted, or blocking protocols being used for transport. [2] To defend against SYN floods, enable SYN Cookies. [2]
(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: https://attack.mitre.org/techniques/T1499/ https://attack.mitre.org/mitigations/M1037 https://attack.mitre.org/datasources/DS0015 https://attack.mitre.org/datasources/DS0029
		3. https://attack.mitre.org/datasources/DS001