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UPDATE: Microsoft Releases Guidance on Exploitation of SharePoint Vulnerabilities

Last Revised: July 22, 2025

Update (07/22/2025): This Alert was updated to reflect newly released information https://www.microsoft.com/en-us/security/blog/2025/07/22/disrupting-active-exploitation-of-on-premises-sharepoint-vulnerabilities/ from Microsoft, and to correct the actively exploited Common Vulnerabilities and Exposures (CVEs), which

have been confirmed as CVE-2025-49706 https://nvd.nist.gov/vuln/detail/cve-2025-49706, a network spoofing vulnerability, and CVE-2025-49704 https://nvd.nist.gov/vuln/detail/cve-2025-49704, a remote code execution (RCE) vulnerability.

CISA is aware of active exploitation of a spoofing and RCE vulnerability chain involving CVE-2025-49706 https://nvd.nist.gov/vuln/detail/cve-2025-49706 and CVE-2025-49704 https://nvd.nist.gov/vuln/detail/cve-2025-49704, enabling unauthorized access to on-premise SharePoint servers. While the scope and impact continue to be assessed, the chain, publicly reported as "ToolShell," provides unauthenticated access to systems and authenticated access through network spoofing, respectively, and enables malicious actors to fully access SharePoint content, including file systems and internal configurations, and execute code over the network.

While not actively exploited, Microsoft has identified the following new CVEs that pose a potential risk:

CVE-2025- https://nvd.nist.gov/vuln/detail/cve-2025-53771 is a patch bypass for CVE-2025-49706.

CVE-2025- https://nvd.nist.gov/vuln/detail/cve-2025-53770 is a patch bypass for CVE-2025-49704.

CISA recommends the following actions to reduce the risks associated with the RCE compromise:

Apply the necessary security updates released by Microsoft https://www.microsoft.com/en-us/security/blog/2025/07/22/disrupting-active-exploitation-of-on-premises-sharepoint-vulnerabilities/.

- Configure Antimalware Scan Interface (AMSI) https://learn.microsoft.com/en-us/windows/win32/amsi/antimalware-scan-interface-portal in SharePoint as indicated by Microsoft and deploy Microsoft Defender AV on all SharePoint servers.
 - If AMSI cannot be enabled, disconnect affected products from service that are public-facing on the internet until official mitigations are available. Once mitigations are provided, apply them according to CISA and vendor instructions.
 - > Follow the applicable BOD 22-01 https://www.cisa.gov/binding-operational-directive-22-01 guidance for cloud services or discontinue use of the product if mitigations are not available.
- For information on detection, prevention, and advanced threat hunting measures, see Microsoft's Disrupting active exploitation of on-premises SharePoint vulnerabilities https://www.microsoft.com/en-us/security/blog/2025/07/22/disrupting-active-exploitation-of-on-premises-sharepoint-vulnerabilities/ and advisory https://msrc.microsoft.com/update-guide/vulnerability/cve-2025-49706 for CVE-2025-49706. CISA encourages organizations to review all articles and security updates published by Microsoft on July 8, 2025, relevant to the SharePoint platform deployed in their environment.
- Rotate ASP.NET machine keys, then after applying Microsoft's security update, rotate ASP.NET machine keys again, and restart the IIS web server.
- Disconnect public-facing versions of SharePoint Server that have reached their end-of-life (EOL) or end-of-service (EOS) from the internet. For example, SharePoint Server 2013 and earlier versions are end-of-life and should be discontinued if still in use.
- Monitor for POSTs to /_layouts/15/ToolPane.aspx? DisplayMode=Edit
- Conduct scanning for IPs 107.191.58[.]76, 104.238.159[.]149, and 96.9.125[.]147, particularly between July 18-19, 2025.

- Update intrusion prevention system and web-application firewall (WAF) rules to block exploit patterns and anomalous behavior. For more information, see CISA's Guidance on SIEM and SOAR Implementation https://www.cisa.gov/news-events/alerts/2025/05/27/new-guidance-siem-and-soar-implementation.
- Implement comprehensive logging to identify exploitation activity. For more information, see CISA's Best Practices for Event Logging and Threat Detection https://www.cisa.gov/resources-tools/resources/best-practices-event-logging-and-threat-detection.
- Audit and minimize layout and admin privileges.

For more information on this vulnerability, please see Eye Security's reporting https://research.eye.security/sharepoint-under-siege/ and Palo Alto Networks

Unit42's post https://unit42.paloaltonetworks.com/microsoft-sharepoint-cve-2025-49704-cve-2025-49706-cve-2025-53770/. CVE-2025-53770 https://nvd.nist.gov/vuln/detail/cve-2025-4970/ and CVE-2025-49704 https://nvd.nist.gov/vuln/detail/cve-2025-49704 were added to the KEV on July 22, 2025.

Note: This Alert may be updated to reflect new guidance issued by CISA or other parties.

CISA would like to acknowledge the contributions of the security researcher community in rapidly sharing insights that enabled CISA to notify critical infrastructure organizations impacted by this activity.

Organizations should report incidents and anomalous activity to CISA's 24/7 Operations Center at contact@mail.cisa.dhs.gov or (888) 282-0870.

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