

Intelligence Advisory

HAFNIUM targeting Microsoft Exchange Servers with 0-day exploits

3rd March 2021

Severity Level: Guarded Classification: Public

<mark>∴sflabs</mark> ₀

DESCRIPTION

Microsoft has released security updates for Exchange Server 2013, 2016, and 2019, where they fixed 4 actively exploited vulnerabilities. 3 of them could allow remote code execution, and one vulnerability (CVE-2021-26855) could allow server-side request forgery.

The vulnerabilities if exploited could allow the threat actors gain access to the onpremises Exchange servers and also, the victim environment.

Microsoft has attributed this threat activity to "HAFINUM", a China state-sponsored hacking group based on observed tactics and procedures.

The vulnerabilities being exploited are CVE-2021-26855, CVE-2021-26857, CVE-2021-26858, and CVE-2021-27065.

Affected Microsoft Exchange Server versions:

• Microsoft Exchange Server 2013

· Microsoft Exchange Server 2016

· Microsoft Exchange Server 2019

INDICATORS OF COMPROMISE

IP Addresses

103[.]77[.]192[.]219 104[.]140[.]114[.]110 104[.]250[.]191[.]110 108[.]61[.]246[.]56 149[.]28[.]14[.]163 157[.]230[.]221[.]198 167[.]99[.]168[.]251 185[.]250[.]151[.]72 192[.]81[.]208[.]169 203[.]160[.]69[.]66 211[.]56[.]98[.]146 5[.]254[.]43[.]18 5[.]2[.]69[.]14 80[.]92[.]205[.]81 91[.]192[.]103[.]43

Hashes

b75f163ca9b9240bf4b37ad92bc7556b40a17e27c2b8ed5c8991385fe07d17d0 097549cf7d0f76f0d99edf8b2d91c60977fd6a96e4b8c3c94b0b1733dc026d3e 2b6f1ebb2208e93ade4a6424555d6a8341fd6d9f60c25e44afe11008f5c1aad1 65149e036fff06026d80ac9ad4d156332822dc93142cf1a122b1841ec8de34b5 511df0e2df9bfa5521b588cc4bb5f8c5a321801b803394ebc493db1ef3c78fa1 4edc7770464a14f54d17f36dc9d0fe854f68b346b27b35a6f5839adf1f13f8ea 811157f9c7003ba8d17b45eb3cf09bef2cecd2701cedb675274949296a6a183d 1631a90eb5395c4e19c7dbcbf611bbe6444ff312eb7937e286e4637cb9e72944



Filenames

web[.]aspx help[.]aspx document[.]aspx errorEE[.]aspx errorEE[.]aspx errorEW[.]aspx errorFF[.]aspx healthcheck[.]aspx aspnet_client[.]aspx aspnet_client[.]aspx shell[.]aspx aspnet_iisstart[.]aspx one[.]aspx

File Paths

C:\inetpub\wwwroot\aspnet_client\ C:\inetpub\wwwroot\aspnet_client\system_web\ %PROGRAMFILES%\Microsoft\Exchange Server\V15\FrontEnd\HttpProxy\owa\auth\ C:\Exchange\FrontEnd\HttpProxy\owa\auth\aspnet_iisstart[.]aspx one[.]aspx

RECOMMENDED ACTIONS

nsfLABs recommends the following:

- High priority deployment of March security updates to address these critical security vulnerabilities.
- Priority should be given to Internet-facing Exchange servers, which are at increased risk.
- Please factor in extra servicing time for any Exchange servers that are not running a currently supported Update Rollup (UR) or Cumulative Update (CU). Any Exchange servers that are not up to date will need to have a supported UR or CU installed before you can install any new security updates.
- Keep applications and operating systems running at the current released patch level.
- Analyse Firewall and Internet proxy logs for the presence of mentioned IOCs.
- Update the Anti-malware solutions at endpoint and perimeter level solutions to include the given IOCs.
- Deploy Endpoint Detection & Response (EDR) tools to detect latest malwares and suspicious activities on endpoints & servers

REFERENCES

https://www.microsoft.com/security/blog/2021/03/02/hafnium-targeting-exchange-servers/

nsfLABs (a NaijaSecForce/NaijaSecCon initiative) is Nigeria's first private computer emergency response service working with citizens, public entities & private organizations to contain cyber threats and to build a more secure and resilient infrastructure for the Nation.

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