ISSACK WAITHAKA cs-sa07-24085

Security Assessments

- It is done to mainly to find and confirm vulnerabilities present so that we can patch, mitigate or remove them
- Black box pentesting is done with no knowledge of a network's configuration or application
- Grey box pentesting is done with little knowledge of the network
- White box pentesting is done with full access and knowledge of the network
- Vulnerability assessment looks for vulnerabilities without simulating attacks while penetration testing is mainly done by attacking the network or application
- Other types of assessments are: security audit, Bug bounties, Red Team assessment.

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Vulnerability assessment

- Aim to identify and categorize risks for security weakness
- A vulnerability is a weakness or bug in system
- A threat is a malicious act performed by individuals with harmful intent.
- Exploit are any code or resources that can be used to take advantage of assets weakness
- Risk possibility of data or assets being destroyed

Common Vulnerability Scoring System

- This industry calculates the ratings of vulnerabilities
- This is calculated based on: Damage Potential, Reproducibility, Exploitability, Affected users and discoverability.

Common vulnerabilities and exposure

- It is a publicly available and known information-security vulnerabilities and exposure
- Each security issue has a CVE ID.

Vulnerability Scanning overview

- They do not exploit the vulnerabilities but need a human to manually validate scan issues
- Nesus is used to identify vulnerabilities in an environment. There are otherslike OpenVAS.

Nesus scan

- Can be configured by clicking New Scan and selecting a scan type
- Nesus also support credential scanning and also provide a lot of flexibility

Advanced settings

- Nesus gives us an option to create a scan policy
- To create a scan policy we can click on the new policy button on top of the page and choose a scan type then choose advanced to create fully customized scan
- After that we click save and the new policy will appear
- Nesus works with plugins which contains information such as vulnerability name, impact, remediation. This plugins can target new vulnerabilities and CVEs

Nesus Skills Assessments

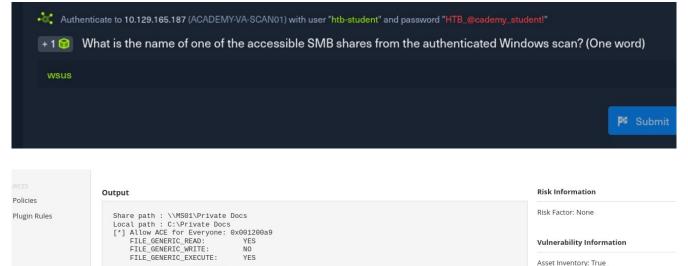
I launched the windows_basic_authed scan

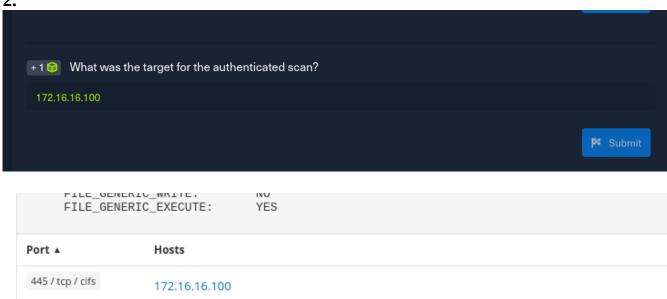
Share path : \\MS01\wsus Local path : C:\wsus [*] Allow ACE for Everyone: 0x001200a9

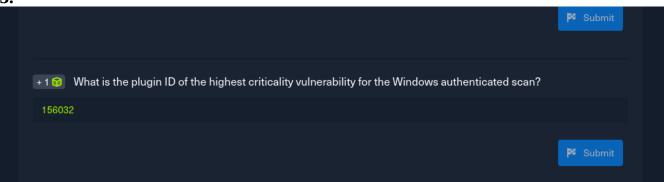
> Hosts 172.16.16.100

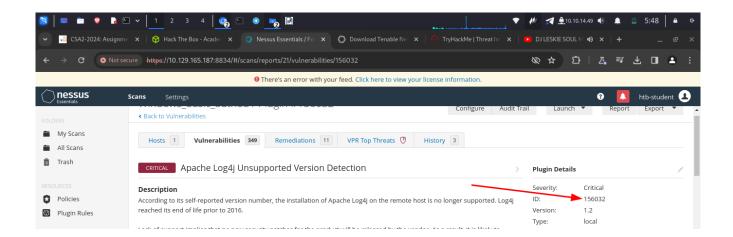
FILE_GENERIC_READ: FILE_GENERIC_WRITE: FILE_GENERIC_EXECUTE:

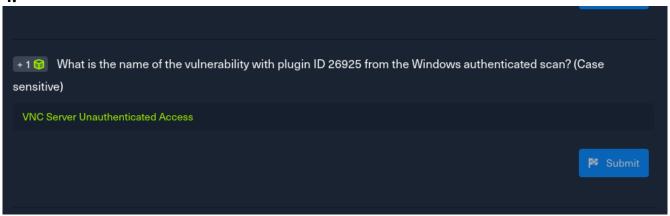
Port A

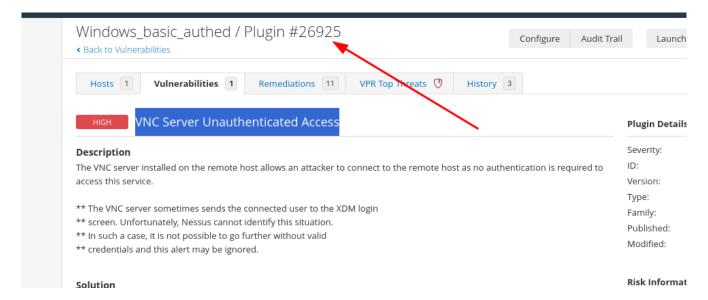








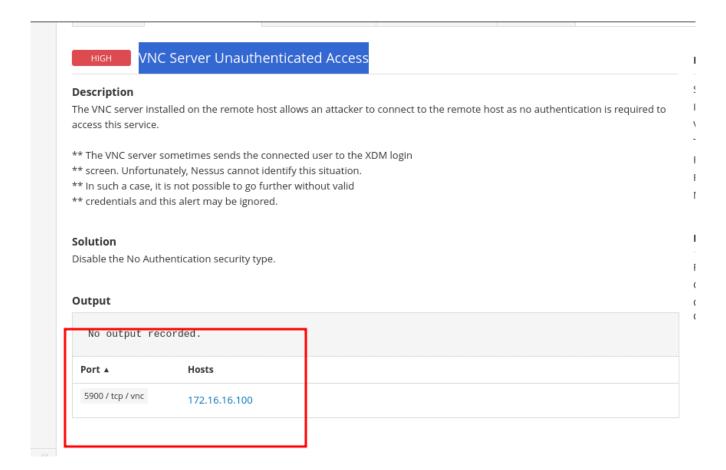




+ 1 ♥ What port is the VNC server running on in the authenticated Windows scan?

5900

Submit



OpenVAS

- It is a publicly available vulnerability scanner
- We installed and configured it

Questions

