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Getting Started With Ethical Hacking

Network Enumeration

Network enumeration, also known as *network scanning*, is the process of scanning a network to discover what hosts are present on it, and to gather additional information about them. Network enumeration can be used for attack, defense, and general troubleshooting.

Network Enumeration Uses

Network enumeration is a fantastic tool, especially for reconnaissance. Doing a shallow scan can allow you to locate potential targets, which can then be scanned more thoroughly to gain additional information, and possibly even find vulnerabilities.

Vulnerability analysis

Vulnerability analysis is the process of defining and classifying security threats within a system or organization.

Vulnerability exploitation

Vulnerability exploitation is identifying weaknesses and mitigating them within a system or organization.

Vulnerability analysis and exploitation tool

There are multiple tools for vulnerability analysis and exploitation that will make an ethical hacker's responsibility more efficient.

Vulnerability analysis intention

Vulnerability analysis is intended to identify any threats and risks to a system or organization.

What Is Packet Sniffing?

Packet sniffing is the act of logging packets of data sent over a network, in order to analyze them. Usually, the logging and analysis happen at different times.

Uses For Packet Sniffing

At its core, packet sniffing allows us to view details about network activity that we wouldn't normally be able to see. This can be used defensively to look for indicators of compromise, offensively for reverse-engineering, or for plain old troubleshooting of network issues.

Packet Sniffing Tools

There are a variety of different packet sniffing tools out there, such as TCPDump, TShark, and Wireshark. Of these, Wireshark is probably the most widely used. Its main advantage over TCPDump and TShark is its graphical user interface, which makes it much easier to sift through packet captures to find what you're looking for.

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