PROJECT--1 (INFORMATION GATHERING TOOL)

ABSTRACTION: (Information gathering tool)

- -->The purpose is to collect the efficient information for cybersecurity professionals by using the tools.
- -->The tool will focus on the network reconnaissance, using the NSE scripts.
- -->Effective information gathering is crucial for identifying vulnerabilities and assessing security risks.

OBJECTIVE:

- -->The goal is to develop a versatile tool that automates the reconnaissance tasks.
- -->In this we utilize the Nmap Scripting Engine (NSE) scripts for the targets.
- -->We use Auxiliary Modules (Metasploit) for additional scanning.
- -->We have to obtain the proper authentication and do not cross the privacy.

INTRODUCTION:

- -->The information can be gathered in two ways. They are
 - 1)Active {automated directly interacts with the target}
 - 2)Passive {manual not interacting with the target}
- -->All the hackers and the cyber security professionals need the accurate and detailed information about the target systems.
- -->Manual / Passive reconnaissance is time-consuming and it is not accurate.
- -->So, the automated / active reconnaissance provides the valuable information in less time.

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METHODOLOOGY:

-->NSE (Nmap Scripting Engine) Scripts:

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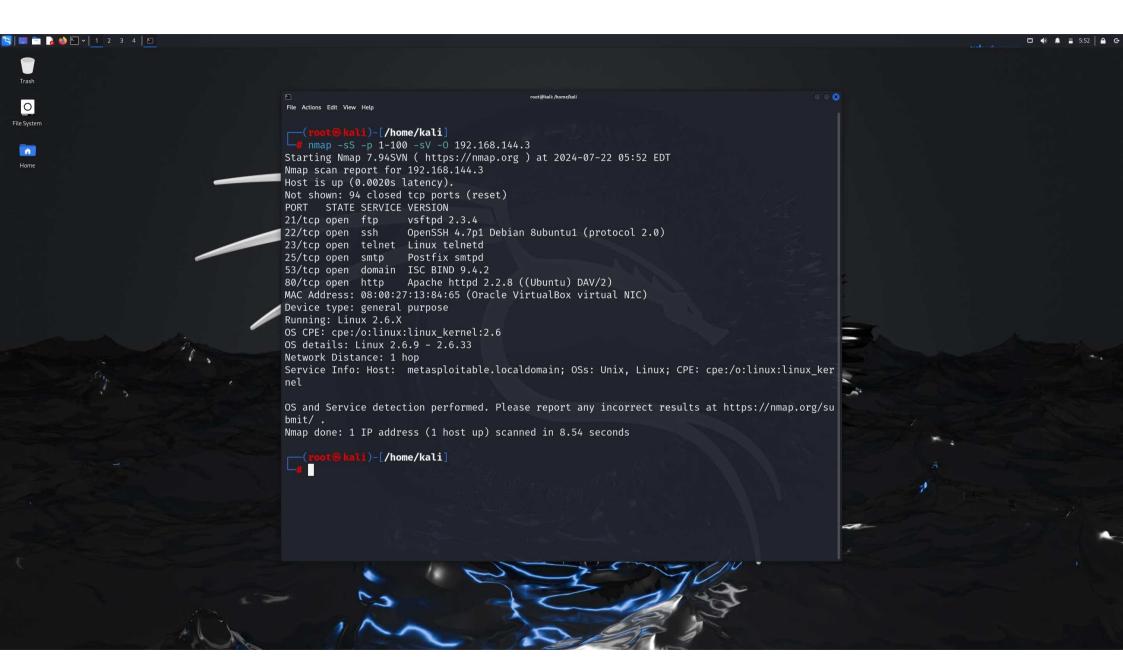
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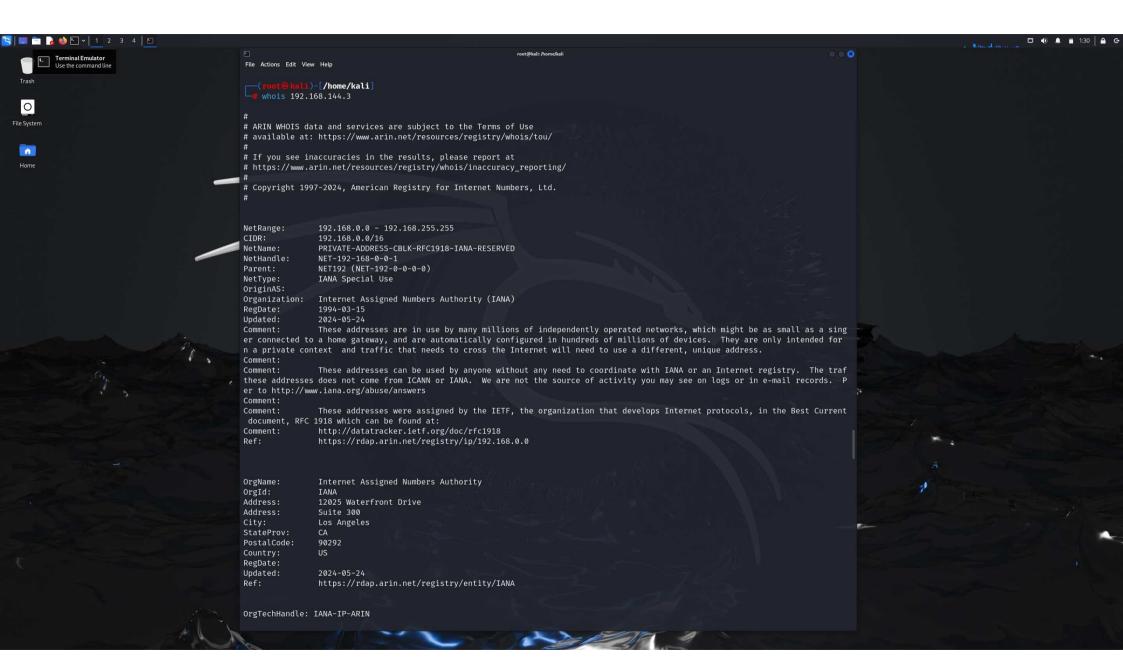


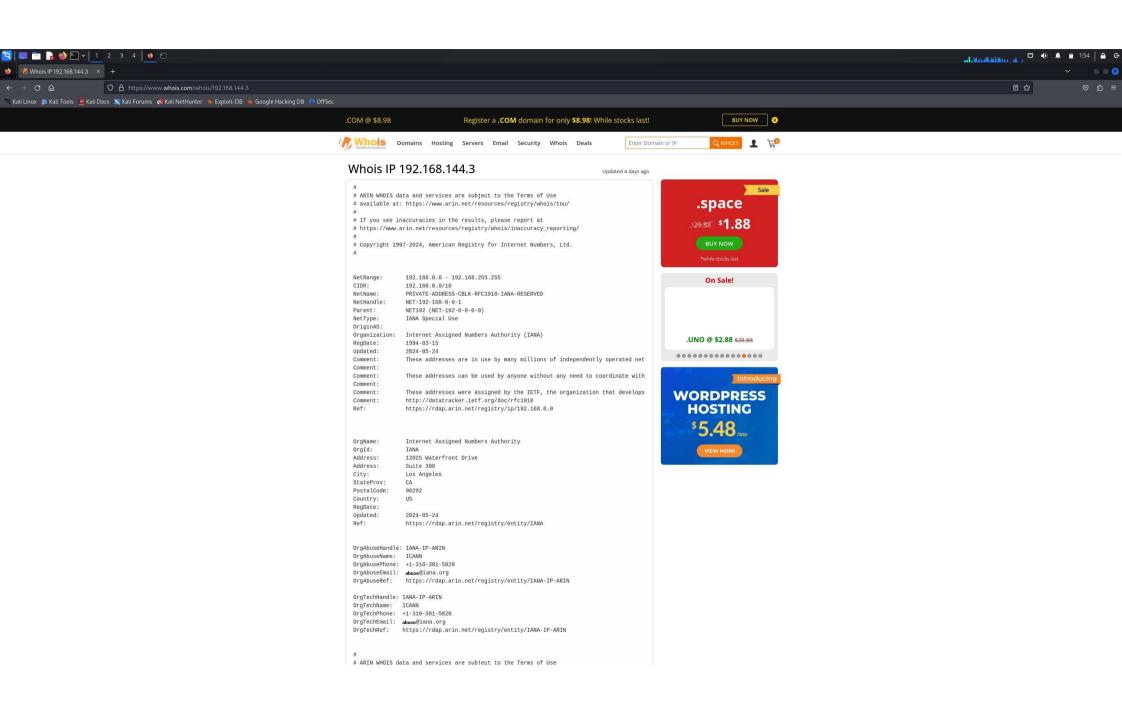
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Project Conclusion:

- -->In this project, we explored various information gathering tools commonly used in ethical hacking and the penetration testing.
- -->Nmap, a powerful network scanner, helps to discover the hosts, open ports, and the various network services.
- -->The whois command retrieves the information about the domain owner and the IP address.
- -->Finally, it is responsible to use of these tools and it is crucial.
- -->Information gathering sets the path for the successful security assessments.