Assignment 1

Name :Kambala Raj Kumar

College : Dr. Lankapalli Bullayya College

Regd.No:721128805335

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What is Footprinting?

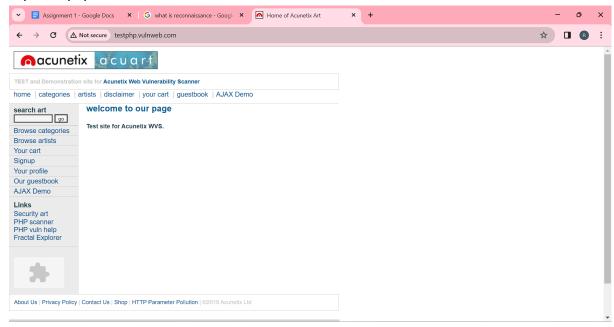
The process of cybersecurity footprinting involves profiling organisations and collecting data about the network, host, employees and third-party partners. There are two types of footprinting as follows below. Active Footprinting: Active footprinting means performing footprinting by getting in direct touch with the target machine. Passive Footprinting: Passive footprinting means collecting information about a system located at a remote distance from the attacker.

What is Reconnaissance?

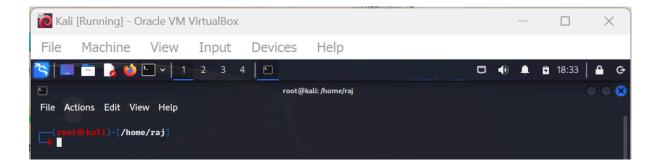
Reconnaissance, often referred to as 'cyber reconnaissance' or 'cyber intelligence gathering', is the process of collecting information about potential targets, vulnerabilities, and attack vectors. Purpose: Reconnaissance and surveillance provides the commander with the information he needs to accomplish his mission. This information includes data on the terrain, weather, and the threat. R&S also provides early warning and security to the force and denies the threat information about friendly forces.

The Website to Perform Footprinting and Reconnaissance is -

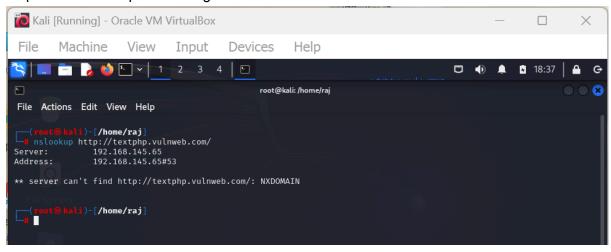
http://testphp.vulnweb.com/



Step 1:open kali linux and change to root user

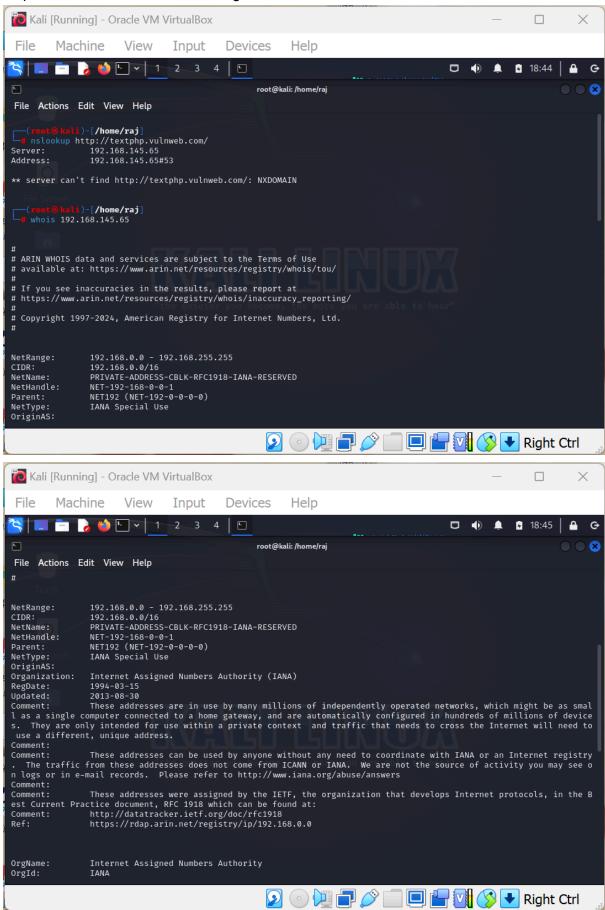


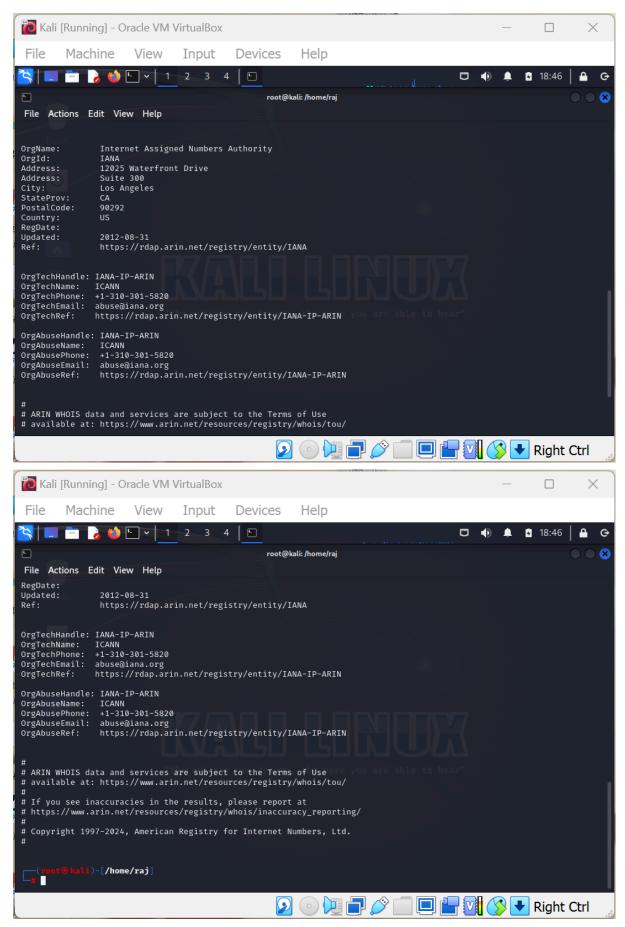
Step 2:use nslookup on the target



We got the server IP as shown above

Step 3:now use whois command to gather information





We have gathered enough info.

Step 4: Now let use nmap command to find vulnerabilities

We have a open port 53

PORT 53: The standard port for DNS is port 53. DNS client applications use the DNS protocol to query and request information from DNS servers, and the server returns the results to the client using the same port. Port 53 is used for both TCP and UDP communication.

Vulnerability: An attacker may use this flaw to inject UDP packets to the remote hosts, in spite of the presence of a firewall. Impact: While using a source port equal to 53 UDP packets may be sent by passing the remote firewall, an attacker could inject UDP packets, in spite of the presence of a firewall.