Assignment 1

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Footprinting:

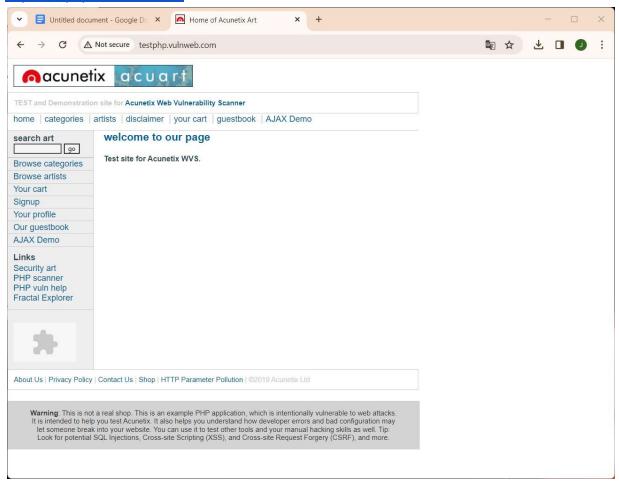
Footprinting is the process of gathering information about a target system or network to create a profile or "footprint" of its infrastructure, services, and security posture. This information can include details about the organisation's domain names, IP addresses, network topology, employee names, email addresses, and more. Footprinting techniques often involve passive information gathering through sources like search engines, social media, public databases, and company websites.

Reconnaissance:

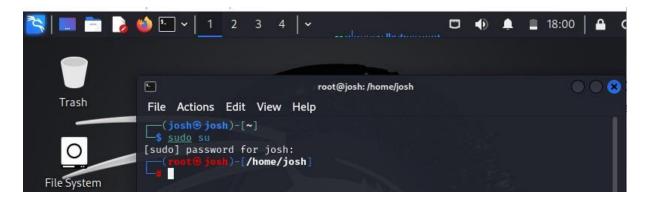
: Reconnaissance, also known as "recon," is the active process of scanning and probing a target system or network to gather additional information beyond what is available through passive footprinting. Reconnaissance activities typically involve techniques such as network scanning, port scanning, banner grabbing, and vulnerability scanning to identify potential points of entry or weaknesses in the target's defences. The goal of reconnaissance is to obtain detailed insights into the target's infrastructure, services, and security vulnerabilities to aid in further analysis or exploitation.

The Website to perform Footprinting and Reconnaissance is -

http://testphp.vulnweb.com/



Step 1:open kali linux and change to root user to further process



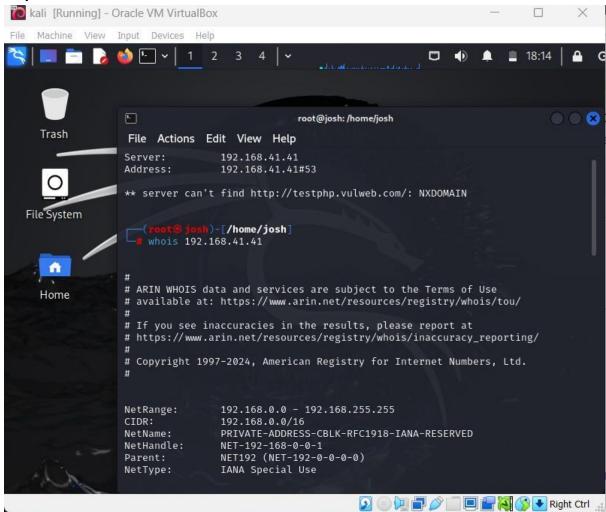
Step 2: use nslookup on the panel

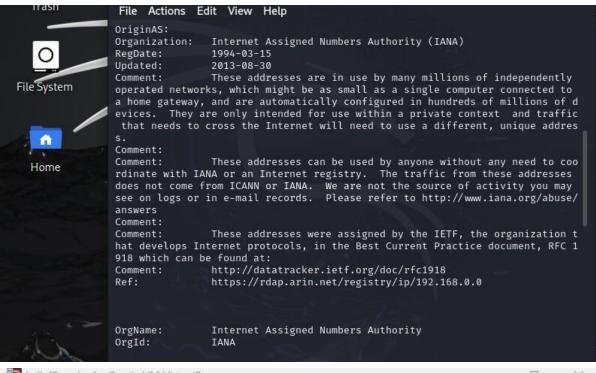
```
(root@josh)-[/home/josh]
# nslookup http://testphp.vulweb.com/
Server: 192.168.41.41
Address: 192.168.41.41#53

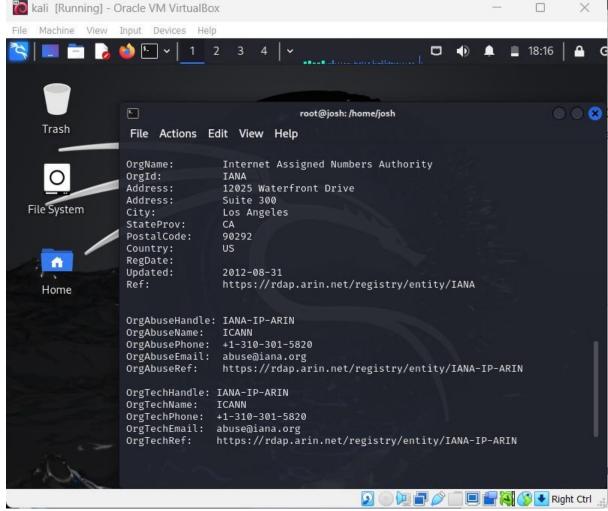
** server can't find http://testphp.vulweb.com/: NXDOMAIN
```

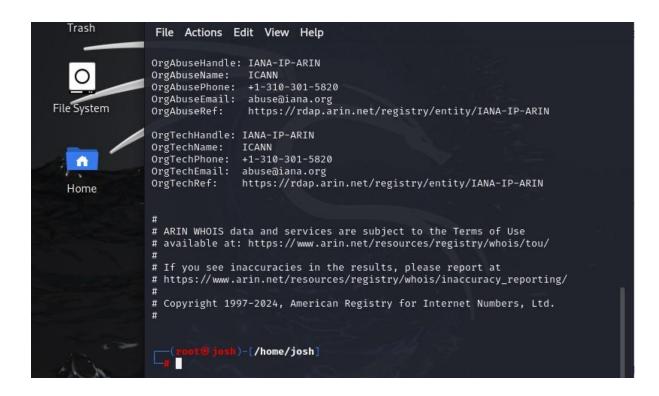
We got the server ip address as shown above

Step 3:now use whois command









Step 4: now let use nmap command

```
Starting Nmap 7.94SVN (https://nmap.org ) at 2024-03-06 18:17 IST Nmap scan report for 192.168.41.41 Host is up (0.0030s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT STATE SERVICE
53/tcp open domain

Nmap done: 1 IP address (1 host up) scanned in 5.56 seconds

[root@josh] [/home/josh]
```

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.

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 source port equal to 53 UDP packets may be sent by passing the remote firewall, and attacker could inject UDP packets, in spite of the presence of a firewall.