Attack Phase

Footprinting

The objective of Footprinting:-

- Learn Security posture: Analyze the target's security posture, find loopholes, and create an attack plan.
- Identify focus area: Using different tools and techniques, narrow down the range of IP addresses.
- Find vulnerabilities: Use the collected information to identify the target's security weaknesses.
- Map the network: Graphically represent the target's network and use it as a guide during the attack.

Collecting Network Information

- Domain Name
- Internal domain Names
- Network blocks
- Rouge websites/Private websites
- Networking protocols
- IDSes running

- TCP and UDP services running
- Access control mechanisms and ACLs
- Active IP addresses
- VPN points
- Analog/digital Telephone numbers
- Authentication mechanisms

Collecting Network Information

- User and group names
- System banners
- Routing tables
- SNMP information
- System architecture
- Remote system type
- System names
- Passwords

Collecting Organizational Information:

- Employee details
- Organization's website
- Company directory
- · Location details
- Address and Phone numbers
- Commenting in GTML source code
- · Security policies implemented
- Web server links relevant to the organization
- Background of the organization

• News articles/press releases

TOOLS:

WEB Mirroring

- httrack
- wget

Administrative Information

• whois (by icann)

DNS FOOTPRINTING

• DNSdumpster

Record	Description
Α	Points to a host's IP address
MX	Points to domain's mail server
NS	Points to host's name server
CNAME	Canonical naming allows aliases to a host
SOA	Indicate authority for domain Start of Authority
SRV	Service records
PTR	Maps IP address to a hostname
RP	Responsible person
HINFO	Host information record includes CPU type and OS
TXT	Unstructured text records

Scanning Phase

Enumeration