## MITRE ATT&CK;® Enterprise Matrix – Detailed PoC

The following document outlines a detailed Proof of Concept (PoC) that covers key tactics from the MITRE ATT&CK;® Enterprise Matrix. Each tactic is illustrated with relevant techniques and simplified procedures to help understand the adversary behavior in real-world attack scenarios.

- **■** Tactic: Reconnaissance (TA0043)
- Technique: T1595 Active Scanning

Procedure:

- 1 Use Nmap to scan the target's open ports and services.
- 2 Command: `nmap -sS -T4 target.com`
- **■** Tactic: Resource Development (TA0042)
- Technique: T1583.001 Acquire Infrastructure: Domains

Procedure:

- 1 Purchase a domain to use for phishing: 'evilcorp-login.com'
- 2 Set up a phishing page mimicking a legitimate login page.
- Tactic: Initial Access (TA0001)
- Technique: T1566.001 Spearphishing Attachment

Procedure:

- 1 Create a Word document with a malicious macro.
- 2 Send it to the target via a believable email.
- **■** Tactic: Execution (TA0002)
- Technique: T1059 Command and Scripting Interpreter

Procedure:

- 1 Use PowerShell to run a malicious script.
- 2 Command: `powershell.exe -ExecutionPolicy Bypass -File payload.ps1`

- **■** Tactic: Persistence (TA0003)
- Technique: T1547.001 Registry Run Keys/Startup Folder

Procedure:

- 1 Add registry key for persistence:
- 2 Command: `reg add HKCU\... /v Updater /d powershell.exe`
- **■** Tactic: Privilege Escalation (TA0004)
- Technique: T1068 Exploitation for Privilege Escalation

Procedure:

- 1 Exploit a vulnerable service or kernel to gain SYSTEM privileges.
- **■** Tactic: Defense Evasion (TA0005)
- Technique: T1027 Obfuscated Files or Information

Procedure:

- 1 Use Base64 encoding to obfuscate PowerShell commands.
- Tactic: Credential Access (TA0006)
- Technique: T1003 OS Credential Dumping

Procedure:

- 1 Use Mimikatz to dump credentials.
- 2 Command: `Invoke-Mimikatz`

**■** Tactic: Discovery (TA0007)

■ Technique: T1087 – Account Discovery

Procedure:

1 Use `net user /domain` to enumerate user accounts.

- **■** Tactic: Lateral Movement (TA0008)
- Technique: T1021.001 Remote Desktop Protocol

Procedure:

- 1 Use stolen credentials to connect to another system via RDP.
- Tactic: Collection (TA0009)
- Technique: T1114 Email Collection

Procedure:

- 1 Use scripts to extract emails from Outlook PST files.
- Tactic: Command and Control (TA0011)
- Technique: T1071.001 Web Protocols

Procedure:

1 Establish a C2 channel over HTTP using custom beaconing.

■ Tactic: Exfiltration (TA0010)

■ Technique: T1041 – Exfiltration Over C2 Channel

Procedure:

1 Compress and send files via established C2 HTTP channel.

■ Tactic: Impact (TA0040)

■ Technique: T1486 – Data Encrypted for Impact

Procedure:

1 Deploy ransomware to encrypt victim's files using AES.