Threat Inelligence Task

Name : Lavanya Chilukamari Inter ID : 308

Tactic Name: TA0043 - Reconnaissance

Tactic Link: https://attack.mitre.org/tactics/TA0043

Description of the Tactic: The adversary is trying to gather information they can

use to plan future operations.

Goal: Gather information for planning attacks.

Techniques of Reconnaissance:

• T1595 - Active Scanning

Procedure: Use network scanner to map open ports.

- Step 1: Run Nmap scan on target IP range.
- Step 2: Collect and analyze open ports and services.
- T1589 Gather Victim Identity Information

Procedure: Search LinkedIn for employee roles.

- Step 1: Query organization name on LinkedIn.
- Step 2: Export and analyze job roles and hierarchy.
- T1592 Gather Victim Host Information

Procedure: Use Shodan to gather exposed device info.

- Step 1: Search target IP/domain on Shodan.
- Step 2: Note device types, banners, and software versions.

Tactic Name: TA0042 - Resource Development

Tactic Link: https://attack.mitre.org/tactics/TA0042

Description of the Tactic: The adversary is trying to establish resources they can

use to support operations.

Goal: Build and maintain resources for attacks.

Techniques of Resource Development:

• T1583.001 - Acquire Infrastructure: Domains

Procedure: Register domain for phishing.

- Step 1: Choose a domain mimicking the target.
- Step 2: Register and configure DNS records.

• T1584.001 - Compromise Infrastructure: Web Servers

Procedure: Exploit vulnerable web server.

- Step 1: Scan for outdated CMS versions.
- Step 2: Upload web shell for persistent access.
- T1585.002 Establish Accounts: Cloud Accounts

Procedure: Create fake cloud account for staging tools.

- Step 1: Sign up on a cloud platform with stolen ID.
- Step 2: Deploy storage bucket for tool hosting.

Tactic Name: TA0001 - Initial Access

Tactic Link: https://attack.mitre.org/tactics/TA0001

Description of the Tactic: The adversary is trying to get into your network.

Goal: Gain access to target systems.

Techniques of Initial Access:

• T1566.001 - Phishing: Spearphishing Attachment

Procedure: Email malicious doc to HR employee.

- Step 1: Craft Word doc with macro payload.
- o Step 2: Send via spoofed HR-related email.
- T1190 Exploit Public-Facing Application

Procedure: Exploit SQL injection in login page.

- Step 1: Identify injectable input field.
- Step 2: Dump user table via SQL injection.
- T1133 External Remote Services

Procedure: Connect using stolen VPN credentials.

- Step 1: Steal credentials from prior phishing.
- Step 2: Log in to VPN portal and access internal network.

Tactic Name: TA0002 - Execution

Tactic Link: https://attack.mitre.org/tactics/TA0002

Description of the Tactic: The adversary is trying to run malicious code.

Goal: Run malicious code on a target system.

Techniques of Execution:

T1059.003 - Command and Scripting Interpreter: Windows Command Shell

Procedure: Drop and run batch script.

- Step 1: Copy malicious script to temp folder.
- Step 2: Execute using cmd.exe.
- T1203 Exploitation for Client Execution

Procedure: Use exploit in Adobe Reader.

- Step 1: Craft malicious PDF.
- Step 2: Send to user via email for execution.
- T1047 Windows Management Instrumentation (WMI)

Procedure: Use WMI to run remote payload.

- o Step 1: Access WMI via PowerShell.
- Step 2: Invoke payload execution remotely.

Tactic Name: TA0003 - Persistence

Tactic Link: https://attack.mitre.org/tactics/TA0003

Description of the Tactic: The adversary is trying to maintain their foothold.

Goal: Maintain access after reboot/logoff.

Techniques of Persistence:

• T1547.001 - Registry Run Keys/Startup Folder

Procedure: Add malware to Run key.

- Step 1: Write malware path to HKCU\Software\Microsoft\Windows\Current\Version\Run.
- Step 2: Reboot system to auto-launch.
- T1053.005 Scheduled Task

Procedure: Create a hidden task for malware execution.

- Step 1: Register task using schtasks.
- Step 2: Set trigger on user login.
- T1543.003 Create or Modify System Process: Windows Service

Procedure: Install malware as service.

- Step 1: Use sc.exe to create new service.
- Step 2: Start service to activate payload.

Tactic Name: TA0004 - Privilege Escalation

Tactic Link: https://attack.mitre.org/tactics/TA0004

Description of the Tactic: The adversary is trying to gain higher-level permissions.

Goal: Gain higher-level privileges.

Techniques of Privilege Escalation:

• T1068 - Exploitation for Privilege Escalation

Procedure: Exploit Windows vulnerability (e.g., PrintNightmare).

- Step 1: Deliver and run exploit code.
- Step 2: Spawn elevated shell.
- T1548.002 Bypass User Access Control

Procedure: Use UAC bypass tool.

- Step 1: Drop fodhelper.exe UAC bypass script.
- Step 2: Execute to elevate process without prompt.
- T1134.001 Access Token Manipulation: Token Impersonation Procedure: Impersonate SYSTEM token.
 - Step 1: Enumerate tokens via Incognito tool.
 - Step 2: Use stolen token to spawn elevated process.

Tactic Name: TA0005 - Defense Evasion

Tactic Link: https://attack.mitre.org/tactics/TA0005

Description of the Tactic: The adversary is trying to avoid being detected.

Goal: Evade detection by security tools.

Techniques of Defence Evasion:

• T1027 - Obfuscated Files or Information

Procedure: Base64 encode payload.

- Step 1: Encode malware script in Base64.
- Step 2: Decode and execute at runtime.
- T1070.004 File Deletion

Procedure: Clean up execution traces.

- Step 1: Delete dropped payloads.
- Step 2: Clear logs from temp folders.
- T1562.001 Disable or Modify Tools

Procedure: Disable Windows Defender.

- Step 1: Modify registry or use PowerShell to disable Defender.
- Step 2: Confirm status via Get-MpPreference.

Tactic Name: Tactic Name: TA0006 - Credential Access

Tactic Link: https://attack.mitre.org/tactics/TA0006

Description of the Tactic: The adversary is trying to steal account names and

passwords.

Goal: Steal credentials like usernames and passwords.

Techniques of Credential Access:

• T1003.001 - LSASS Memory

Procedure: Dump LSASS to extract creds.

- Step 1: Use procdump on Isass.exe.
- Step 2: Analyze dump with Mimikatz.
- T1056.001 Keylogging

Procedure: Install keylogger on user machine.

- Step 1: Drop and install keylogger silently.
- o Step 2: Monitor and collect typed credentials.
- T1555.003 Credentials from Web Browsers

Procedure: Extract saved passwords.

- Step 1: Access browser's login data file.
- Step 2: Decrypt stored passwords using DPAPI.

Tactic Name: TA0007 - Discovery

Tactic Link: https://attack.mitre.org/tactics/TA0007

Description of the Tactic: The adversary is trying to figure out your environment.

Goal: Understand the environment.

Techniques of Discovery:

• T1087.001 - Local Account Discovery

Procedure: List local users.

- Step 1: Run net user command.
- Step 2: Note admin or privileged users.
- T1018 Remote System Discovery

Procedure: Scan network for live hosts.

- Step 1: Ping sweep using script.
- Step 2: Log reachable hosts.

• T1069.002 - Permission Groups Discovery: Domain Groups

Procedure: Enumerate AD groups.

- Step 1: Use net group /domain.
- Step 2: Identify high-privilege groups.

Tactic Name: TA0008 - Lateral Movement

Tactic Link: https://attack.mitre.org/tactics/TA0008

Description of the Tactic: The adversary is trying to move through your

environment.

Goal: Move across systems.

Techniques of Lateral Movement:

• T1021.002 - Remote Services: SMB/Windows Admin Shares

Procedure: Access C\$ share on remote system.

- Step 1: Connect using stolen creds.
- Step 2: Drop and execute payload.
- T1075 Pass the Hash

Procedure: Authenticate using NTLM hash.

- Step 1: Capture NTLM hash.
- Step 2: Use tool like pth-winexe to connect.
- T1550.002 Use Alternate Authentication Material: Pass the Ticket

Procedure: Use Kerberos TGT ticket.

- Step 1: Extract ticket with Mimikatz.
- Step 2: Use kerberos::ptt to impersonate user.

Tactic Name: TA0009 - Collection

Tactic Link: https://attack.mitre.org/tactics/TA0009

Description of the Tactic: The adversary is trying to gather data of interest to their

goal.

Goal: Collect valuable data.

Techniques of Collection:

T1114.001 - Email Collection: Local Email Clients

Procedure: Extract emails from Outlook.

- Step 1: Access PST files.
- Step 2: Parse and export sensitive emails.

• T1005 - Data from Local System

Procedure: Copy sensitive files.

- Step 1: Locate documents folder.
- Step 2: Archive for exfiltration.

• T1113 - Screen Capture

Procedure: Take screenshots of user desktop.

- Step 1: Use script to capture screen.
- Step 2: Save and store image.

Tactic Name: TA0011 - Command and Control

Tactic Link: https://attack.mitre.org/tactics/TA0011

Description of the Tactic: The adversary is trying to communicate with

compromised systems to control them.

Goal: Control infected systems.

Techniques of Command and Control:

T1071.001 - Web Protocols

Procedure: Use HTTPS to communicate with C2.

- Step 1: Send beacon to C2 over HTTPS.
- Step 2: Receive commands.
- T1095 Non-Application Layer Protocol

Procedure: Use raw TCP for C2.

- Step 1: Open TCP socket to remote server.
- Step 2: Transmit encoded commands.
- T1105 Ingress Tool Transfer

Procedure: Download payload from C2.

- Step 1: Send GET request to C2 server.
- Step 2: Save payload to disk.

Tactic Name: TA0010 - Exfiltration

Tactic Link: https://attack.mitre.org/tactics/TA0010

Description of the Tactic: The adversary is trying to steal data.

Goal: Steal data from target network.

Techniques of Exfiltration:

T1041 - Exfiltration Over C2 Channel

Procedure: Send ZIP over HTTPS to C2.

- Step 1: Compress data.
- Step 2: Upload via beacon channel.

• T1567.002 - Exfiltration to Cloud Storage

Procedure: Upload to Dropbox.

- Step 1: Authenticate to fake Dropbox.
- Step 2: Upload stolen documents.

• T1052.001 - Exfiltration Over USB

Procedure: Copy data to USB device.

- Step 1: Mount USB.
- Step 2: Transfer files to drive.

Tactic Name: TA0040 - Impact

Tactic Link: https://attack.mitre.org/tactics/TA0040

Description of the Tactic: The adversary is trying to manipulate, interrupt, or

destroy your systems and data.

Goal: Damage or disrupt operations.

Techniques of Impact:

• T1486 - Data Encrypted for Impact (Ransomware)

Procedure: Encrypt user files.

- Step 1: Drop encryption module.
- Step 2: Execute and drop ransom note.

T1499 - Endpoint Denial of Service

Procedure: Overload system resources.

- Step 1: Launch infinite loop script.
- Step 2: Consume CPU and crash system.

• T1561.001 - Disk Wipe: Disk Content Wipe

Procedure: Wipe disk sectors.

- Step 1: Access disk with raw write permissions.
- Step 2: Overwrite disk with random bytes.