PENETRATION TEST REPORT

Prepared by Md Jobarul Islam
Prepared for: Phoenix Cyber

Project ID: PENT0001
Version 1.1
Date: October,22, 2025

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Contact information

Name	Designation	Contact Information
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On behalf of Supreme Security Limited		
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Table of contents

Version History

Version	Date	Revised by	Comment
1.0	September,25,2025	Jane Doe	Initial report ROE
1.1	October,22,2025	John Doe	Revised under requirement of CTO

Assessment Overview

From the agreed engagement period, **Phoenix Cyber** was retained by **MegaCorp One (megacorpone.com)** to evaluate the external security posture of its internet-facing infrastructure against current industry best practices, using the OWASP Testing Guide, PTES, and custom test procedures where required.

The penetration test followed four primary phases:

• **Planning** – I gathered customer objectives, defined the rules of engagement, and agreed the test scope and timelines.
• **Discovery** – I performed reconnaissance, scanning, and enumeration to identify assets, services, and potential weaknesses.
• **Attack** – I validated likely vulnerabilities through controlled exploitation and performed iterative discovery based on newly acquired access.
• **Reporting** – I documented all findings including verified vulnerabilities, attempted exploits, unsuccessful tests, and remediation recommendations.

The attack phase was executed iteratively and included these core steps:

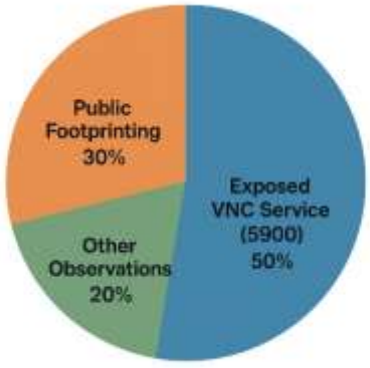
1. Achieve unintended access to systems or services.
2. Escalate privileges from an initial account to higher-privilege contexts.
3. Reconnoitre the compromised environment to identify sensitive assets and pathways.
4. Deploy and use tools to extend access and pivot to additional systems.
5. Extract and record evidence of sensitive data exposure or exfiltration paths.

This assessment was performed under the authorized scope and in accordance with the agreed rules of engagement. All findings and recommendations are provided to help MegaCorp One reduce risk and improve its security posture.

Finding Severity Ratings

The following table defines levels of severity and corresponding CVSS score range that are used throughout the document to assess vulnerability and risk impact.

Severity	CVSS V3 Score Range	Definition
Critical	9.0-10.0	Exploitation is straightforward and usually results in system-level compromise. It is advised to form a plan of action and patch immediately.
High	7.0-8.9	Exploitation is more difficult but could cause elevated privileges and potentially a loss of data or downtime. It is advised to form a plan of action and patch as soon as possible.
Moderate	4.0-6.9	Vulnerabilities exist but are not exploitable or require extra steps such as social engineering. It is advised to form a plan of action and patch after high-priority issues have been resolved.
Low	0.1-3.9	Vulnerabilities are non-exploitable but would reduce an organization's attack surface. It is advised to form a plan of action and patch during the next maintenance window.
Informational	N/A	No vulnerability exists. Additional information is provided regarding items noticed during testing, strong controls, and additional documentation.



Discovery & Reconnaissance
As the first phase of this engagement, I conducted comprehensive discovery and reconnaissance of the target environment. Activities included network and application scanning, review of system, network, and application architectures, and walkthroughs of representative use-case scenarios. Findings from these activities identified potential attack surfaces and vulnerable areas for further testing.
Validation & Exploitation
Using the results of reconnaissance, I performed targeted, controlled manual tests aimed at assessing the Confidentiality, Integrity, and Availability (CIA) of the environment and its data. High-risk vulnerabilities identified during discovery were prioritized for exploitation attempts. The detailed findings from those validation and exploitation tests follow in the sections below. While not every identified issue was exploited, I focused on those vulnerabilities offering the greatest likelihood of impactful compromise within the engagement timeframe.

Scope

Target Scope
The following externally accessible IP addresses were within the scope of this engagement:

Target Assessment	Briefed overview	note
http://www.megacorpone.com Server: 192.168.132.2 Address: 192.168.132.2#53	MegaCorp One markets itself as an advanced nanotechnology company offering products and services such as cell regeneration, nano processors , nanomite-based weaponry and related nanotech applications	athorized for reconocence
Metasploitable2-Linux IP: 192.168.132.130	Metasploitable2-Linux is an intentionally vulnerable virtual machine designed for security testing, training, and research.	Isolated lab environment
M2 Port - 5900	Virtual Network Computing (VNC) to remotely view and control another computer's desktop over a network. It's a cross-platform remote desktop system commonly used for remote support, administration, and accessing headless machines.	

Scope Exclusion

Per client request, Supreme Security Limited did not perform any Denial of Service attacks during testing.

Client Allowance

SAMPLECROP LTD provided the following thing

Components	Briefed overview	
Metasploitable2-Linux	Isolated lab environment	

Executive Summary

Testing was performed using industry-standard penetration testing tools and techniques, including Ping, Whois, Subdomain-Finder, Dorking for footprinting, and Nmap and the Metasploit Framework for vulnerability assessment and exploitation. I (Md Jobarul Islam) evaluated Creative IT Institute's external security posture through a footprinting and external penetration test from **23 August 2025 to 23 September 2025**. By leveraging routine reconnaissance and targeted exploits, the assessment identified an exposed service on **TCP port 5900** that is exploitable and may allow full remote desktop access and potential privilege escalation, and public footprinting for megacorpone revealed broadly accessible assets. These issues were assessed as **Moderate** in exploitability but carry a **High** potential impact due to possible full system compromise. It is strongly recommended that Creative IT Institute address these findings immediately — specifically:

- Restrict access to port **5900** (block public access; allow only via VPN or trusted management networks).
- Enforce strong authentication and disable any "no-auth"/anonymous modes.
- Enable encryption (use VNC over TLS or tunnel VNC over SSH/VPN).
- Patch or replace vulnerable VNC software and apply vendor advisories.
- Implement logging, IDS/IPS rules, and alerting for suspicious VNC connections and authentication failures.
- Rotate any exposed credentials and perform host compromise investigation if unauthorized access is suspected.

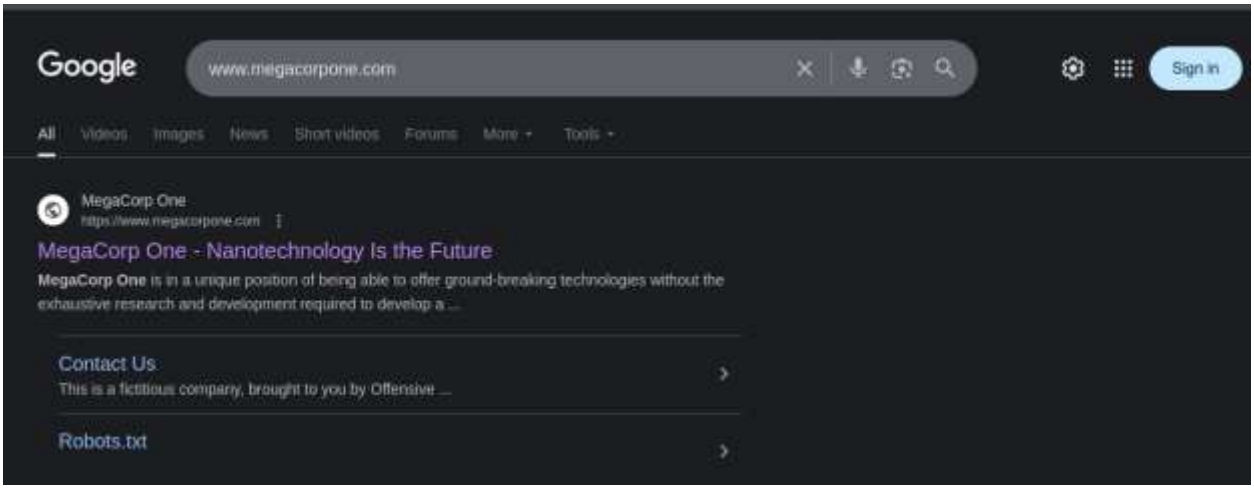
Findings after Information Gathering

Following tools and/or online resource have been used for information gathering

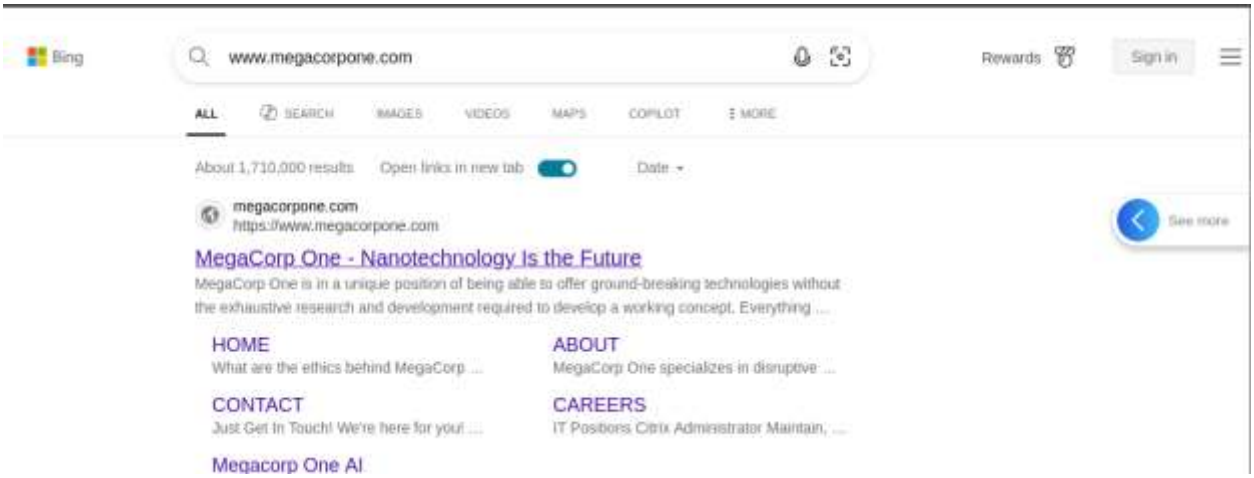
Sl.no.	Name	overview
1	Search Engine	find information through the search engine's indexed database
2	Ping	A **ping** is a network utility used to check if a device
3	Nslookup	Kali tool
4	whois	key tool in cybersecurity and networking
5	Google Dorking	Search technique

1.**Search Engine**:

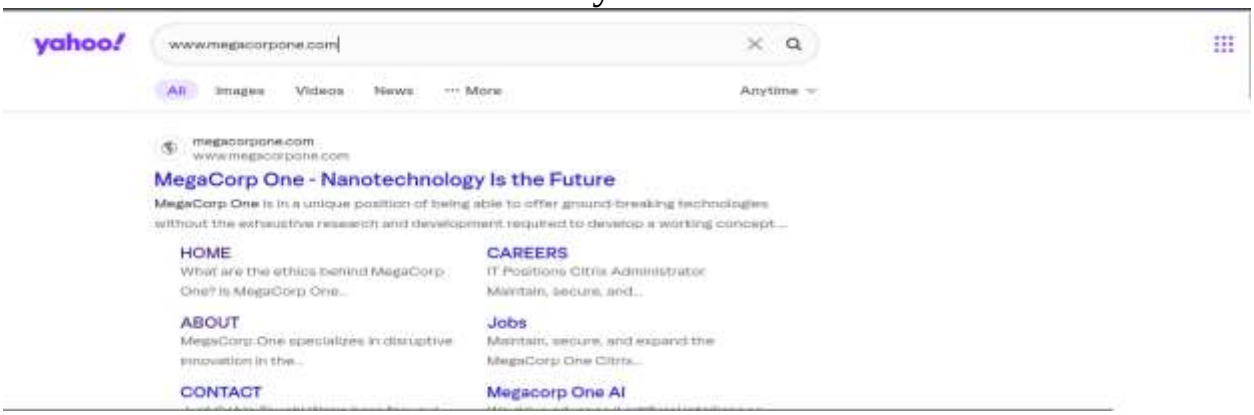
www.google.com



www.bing.com

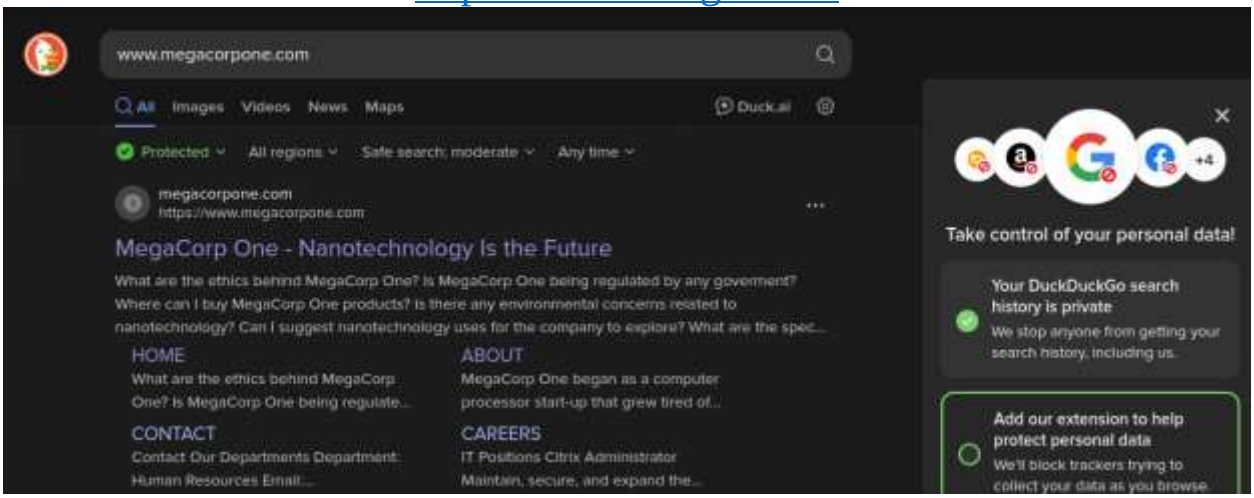


search.yahoo.com



https://www.baidu.com/

https://duckduckgo.com/



2.Ping:

```
┌──(kali㉿kali)-[~]
└─$ ping www.megacorpone.com
PING www.megacorpone.com (149.56.244.87) 56(84) bytes of data.
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=1 ttl=128 time=248 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=2 ttl=128 time=246 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=3 ttl=128 time=246 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=4 ttl=128 time=250 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=5 ttl=128 time=242 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=6 ttl=128 time=245 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=7 ttl=128 time=261 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=8 ttl=128 time=247 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=9 ttl=128 time=247 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=10 ttl=128 time=247 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=11 ttl=128 time=249 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=12 ttl=128 time=246 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=13 ttl=128 time=255 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=14 ttl=128 time=263 ms
64 bytes from www.megacorpone.com (149.56.244.87): icmp_seq=15 ttl=128 time=246 ms
^C
── www.megacorpone.com ping statistics ──
16 packets transmitted, 15 received, 6.25% packet loss, time 15023ms
rtt min/avg/max/mdev = 242.440/249.240/263.133/5.614 ms
```

3.Nslookup:

```
┌──(kali㉿kali)-[~]
└─$ nslookup https://www.megacorpone.com
Server:         192.168.132.2
Address:        192.168.132.2#53
```

4. whois:

Registrar Information:

Registrar	WHOIS Server	Referral URL
Gandi SAS	whois.gandi.net SAS	http://www.gandi.net

Nameservers:

Hostname	IP Address
ns1.megacorpone.com	51.79.37.18
ns2.megacorpone.com	51.222.39.63
ns3.megacorpone.com	66.70.207.180

Domain Status:

clientTransferProhibited
https://icann.org/epp#clientTransferProhibited
clientTransferProhibited
http://www.icann.org/epp#clientTransferProhibited

Contact Information:

Sl no	Name	Address	Phone
01	Alan Grofield	Rachel, Nevada US	+1.9038836342
02	Alan Grofield	Rachel, Nevada US	+1.9038836342
03	Alan Grofield	Rachel, Nevada US	+1.9038836342

Similar Domains:

megac0rp.online
megac19.co
megac1jck.com
megac4.asia
megac4.biz
megac4-cashgame.org
megac4.center
megac4.club
megac4.com
megac4.life

Raw WHOIS Data:

Domain Name: MEGACORPONE.COM

Registry Domain ID: 1775445745_DOMAIN_COM-VRSN

Registrar WHOIS Server: whois.gandi.net

Registrar URL: http://www.gandi.net

Updated Date: 2024-12-22T21:09:21Z

Creation Date: 2013-01-22T23:01:00Z

Registry Expiry Date: 2026-01-22T23:01:00Z

Registrar: Gandi SAS

Registrar IANA ID: 81

Registrar Abuse Contact Email: abuse@support.gandi.net

Registrar Abuse Contact Phone: +33.170377661

Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited

Name Server: NS1.MEGACORPONE.COM

Name Server: NS2.MEGACORPONE.COM

Name Server: NS3.MEGACORPONE.COM

DNSSEC: unsigned

URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/

>>> Last update of whois database: 2025-10-13T01:08:57Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

NOTICE: The expiration date displayed in this record is the date the

registrar's sponsorship of the domain name registration in the registry is

currently set to expire. This date does not necessarily reflect the expiration

date of the domain name registrant's agreement with the sponsoring

registrar. Users may consult the sponsoring registrar's Whois database to

view the registrar's reported date of expiration for this registration.

TERMS OF USE: You are not authorized to access or query our Whois

database through the use of electronic processes that are high-volume and

automated except as reasonably necessary to register domain names or

modify existing registrations; the Data in VeriSign Global Registry

Services' ("VeriSign") Whois database is provided by VeriSign for

information purposes only, and to assist persons in obtaining information

about or related to a domain name registration record. VeriSign does not

guarantee its accuracy. By submitting a Whois query, you agree to abide

by the following terms of use: You agree that you may use this Data only

for lawful purposes and that under no circumstances will you use this Data

to: (1) allow, enable, or otherwise support the transmission of mass

unsolicited, commercial advertising or solicitations via e-mail, telephone,

or facsimile; or (2) enable high volume, automated, electronic processes

that apply to VeriSign (or its computer systems). The compilation,

repackaging, dissemination or other use of this Data is expressly

prohibited without the prior written consent of VeriSign. You agree not to

use electronic processes that are automated and high-volume to access or

query the Whois database except as reasonably necessary to register

domain names or modify existing registrations. VeriSign reserves the right

to restrict your access to the Whois database in its sole discretion to ensure

operational stability. VeriSign may restrict or terminate your access to the

Whois database for failure to abide by these terms of use. VeriSign

reserves the right to modify these terms at any time.

The Registry database contains ONLY .COM, .NET, .EDU domains and

Registrars.

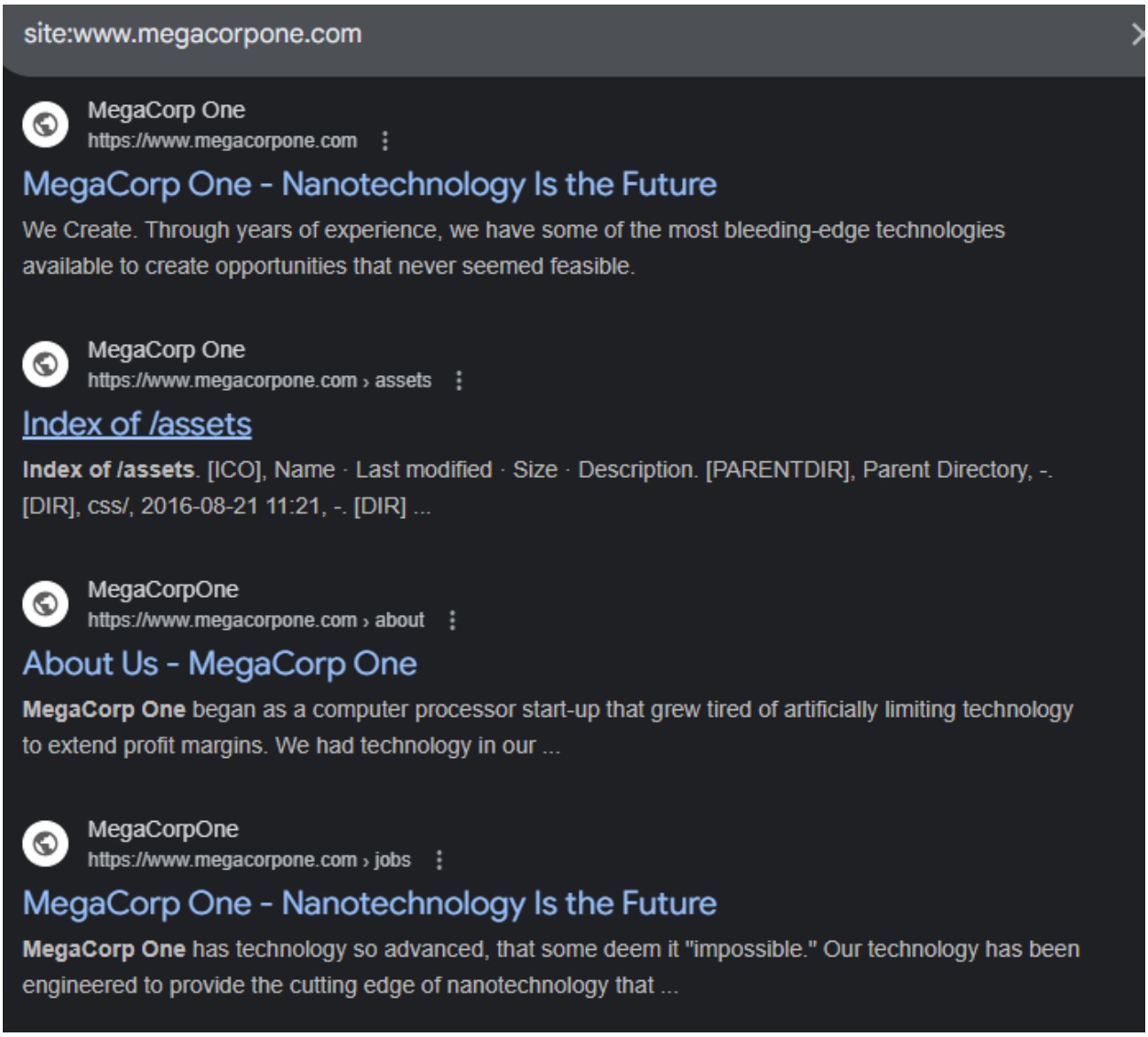
5.DNS Records for megacorpone.com:

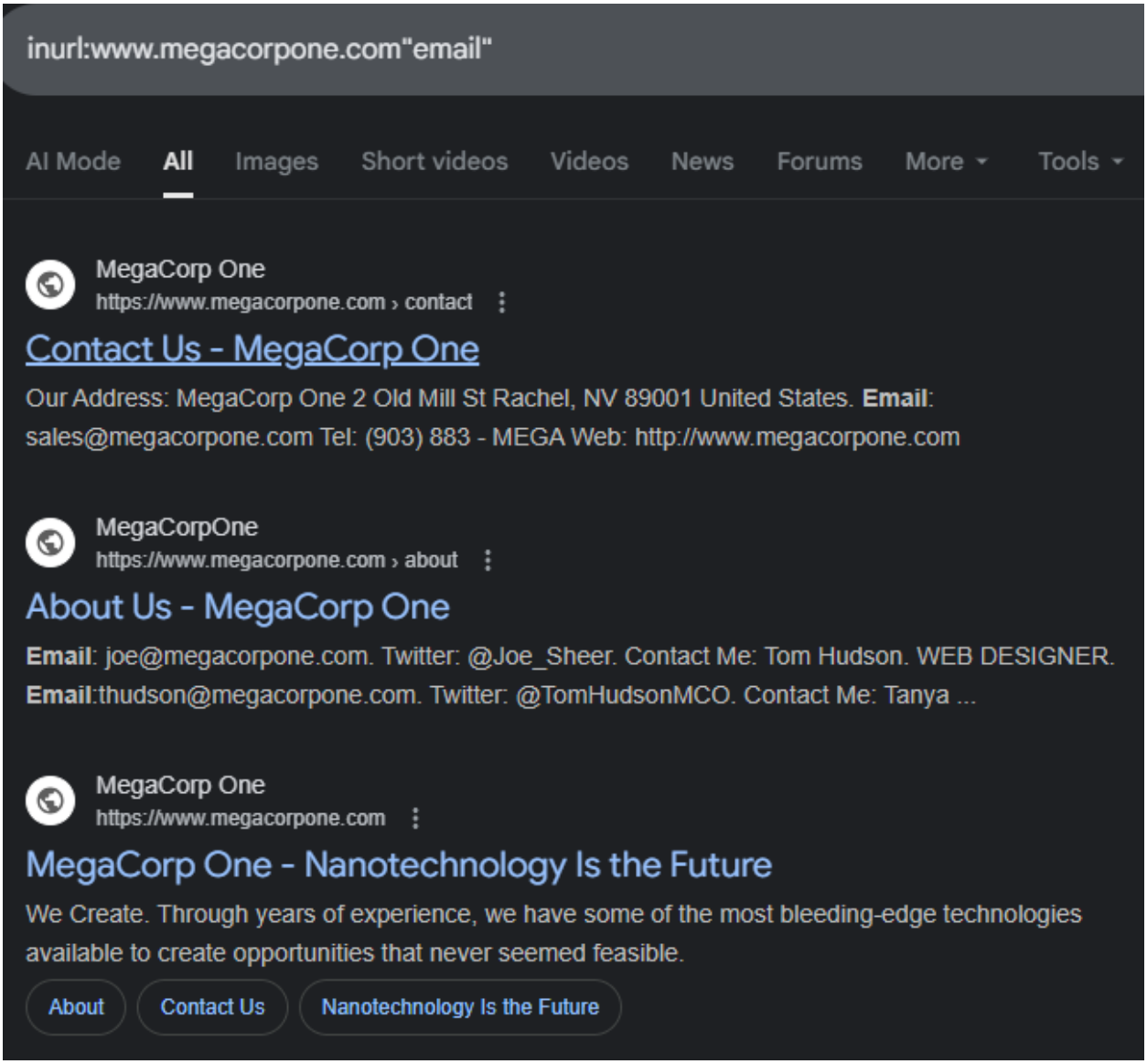
Hostname	Type	TTL	Priority	Content
megacorpone.com	NS	0		ns3.megacorpone.com
megacorpone.com	NS	0		ns1.megacorpone.com
megacorpone.com	NS	0		ns2.megacorpone.com
megacorpone.com	SOA	300		ns1.megacorpone.com admin.megacorpone.com 202508051 28800 7200 2419200 300
megacorpone.com	A	0		149.56.244.87
megacorpone.com	MX	0	60	mail2.megacorpone.com
megacorpone.com	MX	0	50	mail.megacorpone.com
megacorpone.com	MX	0	20	spool.mail.gandi.net
megacorpone.com	MX	0	10	fb.mail.gandi.net
www.megacorpone.com	A	0		149.56.244.87

Nameservers:

Hostname	IP Address
ns1.megacorpone.com	51.79.37.18
ns2.megacorpone.com	51.222.39.63
ns3.megacorpone.com	66.70.207.180

6.Google Dorking:




inurl:www.megacorpone.com"email"
AI Mode
All
Images
Short videos
Videos
News
Forums
More
Tools
MegaCorp One
https://www.megacorpone.com › contact
Contact Us - MegaCorp One
Our Address: MegaCorp One 2 Old Mill St Rachel, NV 89001 United States. Email: sales@megacorpone.com Tel: (903) 883 - MEGA Web: http://www.megacorpone.com
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Domain Registrar

IANA ID: 81

Handle: 81

Registrar Name: Gandi SAS

WHOIS Server: whois.gandi.net

Email Address: abuse@gandi.net

Phone Number: +33170377661

Registrant Contact

Handle: REDACTED

Name: Redacted for Privacy

Company: MegaCorpOne

State: Nevada

Country Name: United States

Country Code: US

Email Address: 3310f82fb4a8f79ee9a6bfe8d672d87e-1696395@contact.gandi.net

Administrative Contact

Handle: REDACTED

Name: Redacted for Privacy

Email Address: 3310f82fb4a8f79ee9a6bfe8d672d87e-1696395@contact.gandi.net

Technical Contact

Handle: REDACTED

Name: Redacted for Privacy

Email Address: 3310f82fb4a8f79ee9a6bfe8d672d87e-1696395@contact.gandi.net

Billing Contact

Handle: REDACTED

Name: Redacted for Privacy

Name Servers

ns2.megacorpone.com

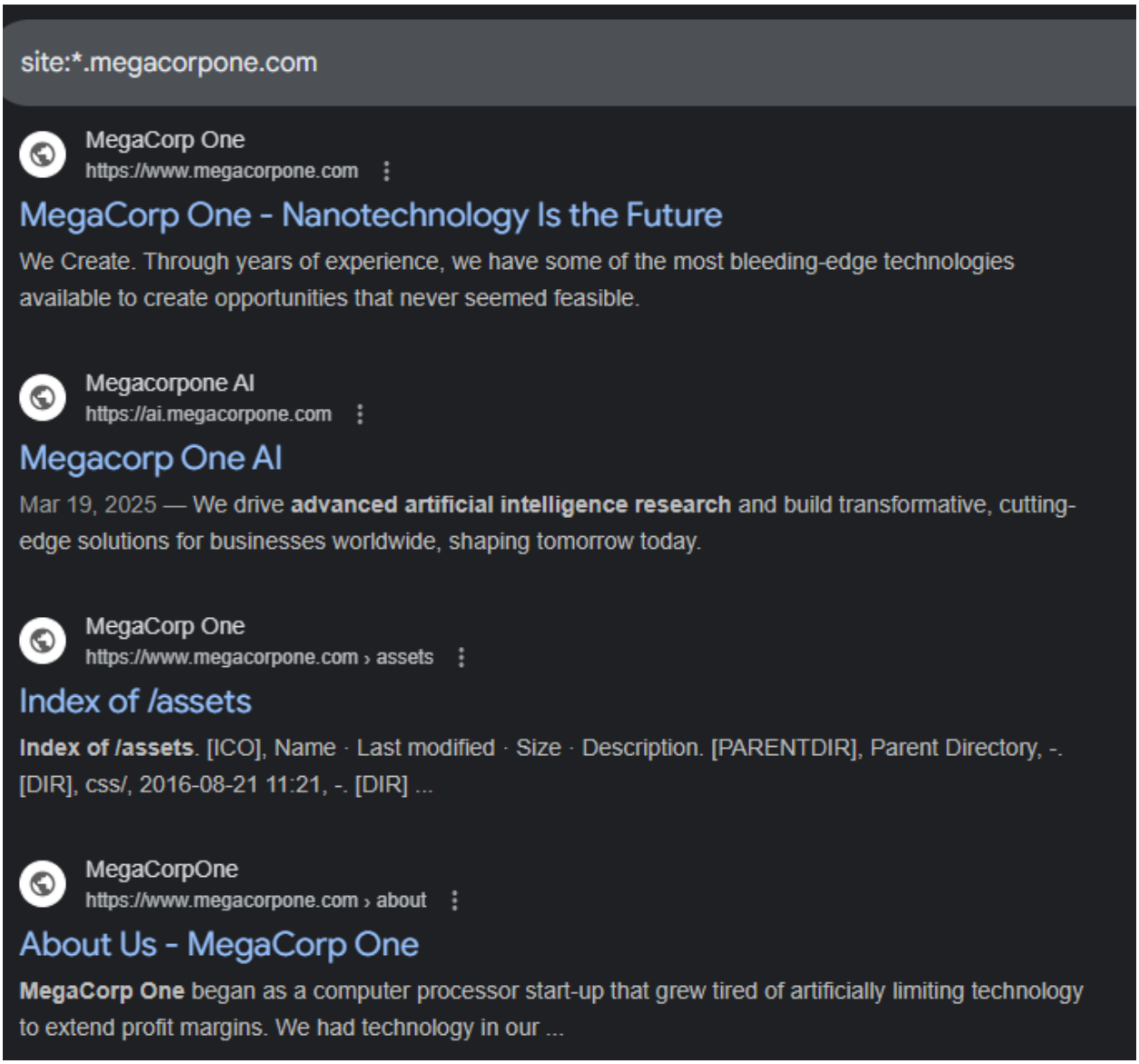
ns3.megacorpone.com

ns1.megacorpone.com

Domain Status

clienttransferprohibited

Subdomain:


site:*.megacorpone.com
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We Create. Through years of experience, we have some of the most bleeding-edge technologies available to create opportunities that never seemed feasible.
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Mar 19, 2025 — We drive advanced artificial intelligence research and build transformative, cutting-edge solutions for businesses worldwide, shaping tomorrow today.
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Index of /assets
Index of /assets. [ICO], Name · Last modified · Size · Description. [PARENTDIR], Parent Directory, -. [DIR], css/, 2016-08-21 11:21, -. [DIR] ...
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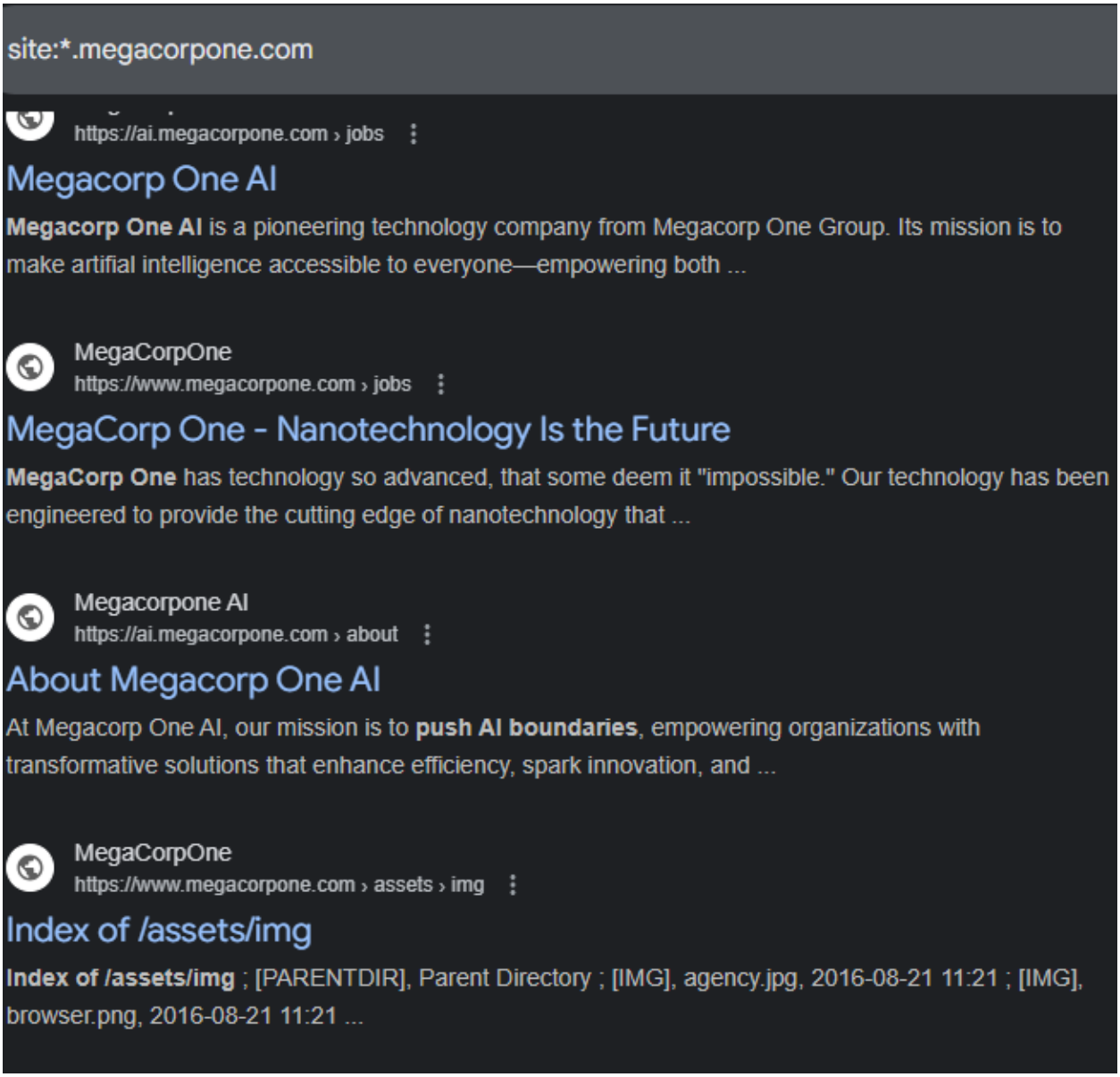
https://www.megacorpone.com › about
About Us - MegaCorp One
MegaCorp One began as a computer processor start-up that grew tired of artificially limiting technology to extend profit margins. We had technology in our ...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Index of /assets/img
Index of /assets/img ; [PARENTDIR], Parent Directory ; [IMG], agency.jpg, 2016-08-21 11:21 ; [IMG], browser.png, 2016-08-21 11:21 ...

Vulnerability Scanning Report

Following tools and/or online resource have been used for information gathering

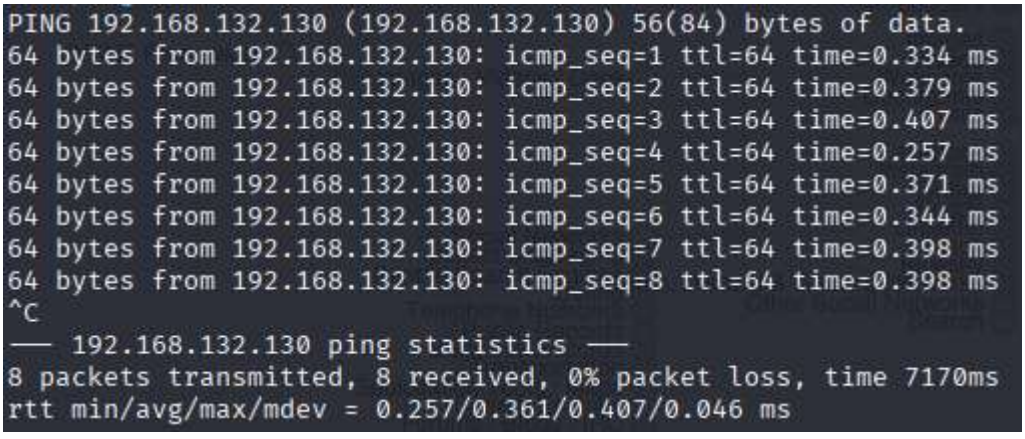
Sl.no.	Tools Name	Description	Scope
1	Nmap	Network Enumeration Host Enumeration OS Fingerprinting	192.168.132.130
2	Ping	Test connectivity	192.168.132.130
3	Msfconsole	Metasploit Framework Console	192.168.132.130
4	Vncviewer	viewer client for VNC	192.168.132.130

1.Nmap:

Report			
Scope	192.168.132.130		
port	**Service**	**Version**	**Description/Comment**
5900/tcp	VNC	Protocol 3.3	Virtual Network Computing (VNC)

Screenshots:

2.Ping:



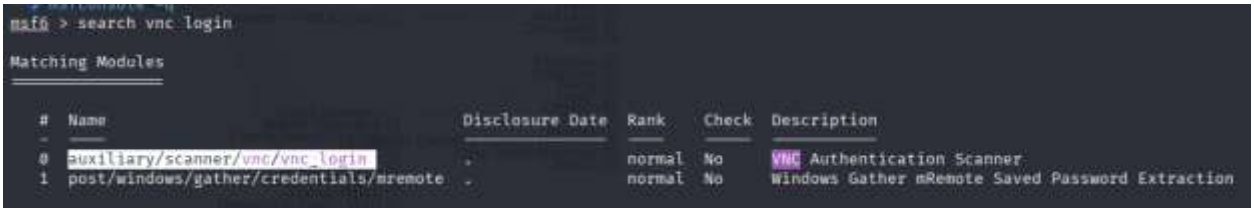
Exploiting vulnerabilities

1 VNC (RFB) — Unauthenticated / Weak Authentication / Cleartext (port 5900)	
Risk	**Critical**
Locations(s)	192.168.132.130:5900
Description	Default VNC / RFB (Remote Frame Buffer) deployments on TCP/5900 frequently expose one or more serious issues: • No or weak authentication — Some servers accept None (no password) or use short/weak VNC passwords that are trivial to brute-force. A successful connection gives an attacker full remote desktop control (mouse/keyboard/clipboard). Medium+1 • Unencrypted traffic — The RFB protocol (unless vendor-extended) transmits screen, keyboard events and authentication material without strong encryption, enabling credential capture and session hijacking via network sniffing or MitM. Pen Test Partners+1 • Implementation vulnerabilities — Several VNC implementations (RealVNC, UltraVNC, TightVNC, etc.) have had authentication bypasses and remote/local code-execution or privilege-escalation CVEs in the wild; these can be exploited to gain RCE or escalate privileges on the host.
References	Research / writeups on VNC risks (unencrypted traffic, credential capture, exposures)

Proof of Concept

Using the " auxiliary/scanner/vnc/vnc_login " Metasploit module, we attempted to exploit this vulnerability. It worked and we successfully executed linux based commands.

Start metasploit:

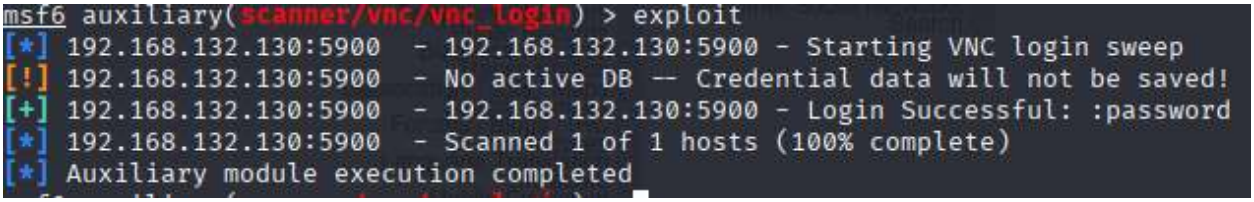


Set exploit and perform exploitation:
Use 0 or auxiliary/scanner/vnc/vnc_login

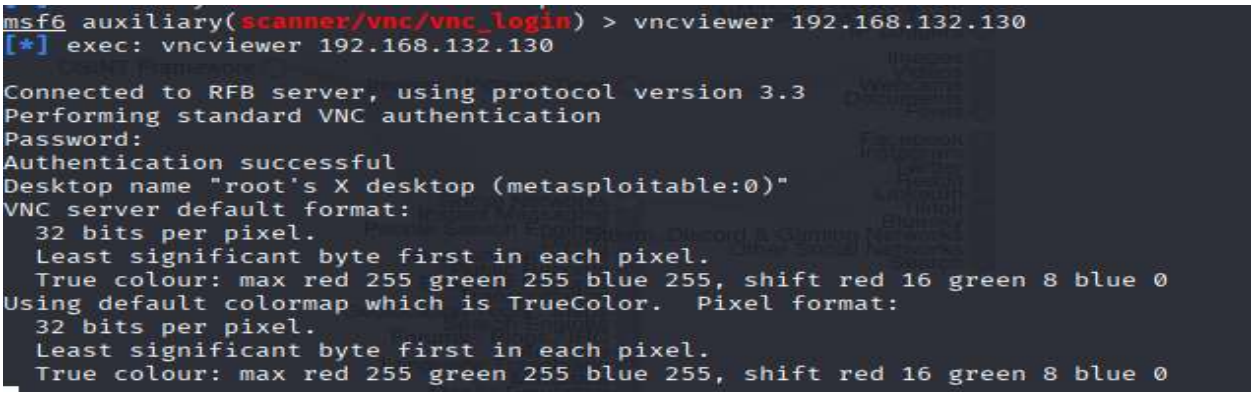
show options:

Set RHOST target: 192.168.132.130:

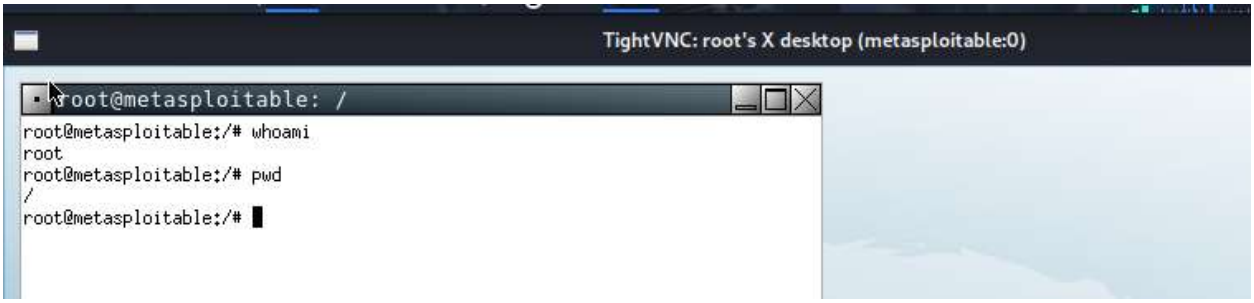
Exploit:



Vncviewer target : 192.168.132.130



Get the root control of M2:



Impact	
CVSS Score	**10.0**
Confidentiality Impact:	Complete (There is total information disclosure, resulting in all system files being revealed.)
Integrity Impact:	Complete (There is a total compromise of system integrity. There is a complete loss of system protection, resulting in the entire system being compromised.)
Availability Impact:	Complete (There is a total shutdown of the affected resource. The attacker can render the resource completely unavailable.)
Access Complexity:	Low (Specialized access conditions or extenuating circumstances do not exist. Very little knowledge or skill is required to exploit.)
Authentication:	Not required (Authentication is not required to exploit the vulnerability.

Recommendations

sl	Control	Implementation
1	Authentication	Upgrading the version of the service should solve the problem

Limitation

sl	Limitations
1	Security issues that could potentially disrupt the Client environment were not fully tested. • Security issues that could negatively disrupt and impact normal system operations,including Denial of Service (DoS) or buffer overflow attempts, were not fully tested as part of this assessment.
2	Technical testing activities were limited to a finite time period. • While Supreme Security Limited's methodology included both automated and manual testing to identify and attempt exploitation of the most common security issues, testing was limited to a finite period of time. Malicious users may be able to discover and attempt additional security issues over a longer period of time or through other methods such as social engineering.
3	Social Engineering • Social Engineering attacks were not in scope for this assessment.
4	Client-Side Attacks • Client-side attacks were not in scope for this assessment.

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The End

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