

# FINAL PROJECT TEMPLATE



# THREAT SUMMARY

■ **Summary of Situation:** Hospitals A,B and C got a message says: “all personal documents and files are encrypted” and the only way to decrypt them if the payment done. The incident has started with user in technology department opening an email attachment resource.

■ **Asset:** Centralized log files and backups, Windows systems, The control systems, Doctors report, patients' information and log analysis tool.

■ **Impact:** Confidentiality, Integrity and Availability.

■ **Threat Actor:** An External threat actor (Cybercriminals). Internal threat actor (user in technology department).

■ **Threat Actor Motivation:** Cybercriminals are financially motivated individuals who carry out attacks mainly for monetary reasons.

Disgruntled insiders are employees who are unhappy with the organization and seek to retaliate often through digital resources and exploitation.

■ **Common Threat Actor Techniques:** : Intentional threats: Phishing: Spearphishing Attachment used to acquire sensitive data using an email attachment.

■ **Unintentional threats:** Could cause by an employee who unaware of security practices.

# VULNERABILITY SCANNING TARGETS

## ■ Summary of scan targets:

- Number of devices scanned: [One \(1\) host](#).
- Device type: (operating system and version) [Microsoft Windows 10](#)
- Primary purpose of device: (describe what the devices are used for and what kind of data might be on them) [general-purpose computer it used to store personal documents and files](#).

(insert 2 screenshots from scan configuration window – one of the settings tab and one of the plugins tab. Be sure to click on and display a plugin group relevant to your machines operating system)

# Settings tab:

nessus

Essentials

Scans

Settings

There's an error with your feed. [Click here to view your license information.](#)

nessusadm

FOLDERS

My Scans

test

All Scans

Trash

RESOURCES

Policies

Plugin Rules

Scanners

TENABLE

Community

Research

Tenable News

CVE-2022-42475:  
Fortinet Patches Zero  
Day in Forti...

[Read More](#)

Test Scan One / Configuration

[Back to Scan Report](#)

Settings

Credentials

Plugins

BASIC

General

Schedule

Notifications

DISCOVERY

ASSESSMENT

REPORT

ADVANCED

Name

Description

Folder

Targets

Upload Targets

Test Scan One

Description

My Scans

168.63.129.16

Add File

Save

Cancel

# Plugins tab:

nessus

Essentials

Scans

Settings

Filter

Search Plugin Families

nessusadm

FOLDERS

My Scans

test

All Scans

Trash

RESOURCES

Policies

Plugin Rules

Scanners

TENABLE

Community

Research

Tenable News

Cybersecurity

Snapshot: Phishing

Scams, Salary Tre...

Read More

Test Scan One / Configuration

[Back to Scan Report](#)

Settings

Credentials

Plugins

Service detection	486
Settings	102
Slackware Local Security Checks	1204
SMTP problems	148
SNMP	33
Solaris Local Security Checks	3711
SuSE Local Security Checks	15094
Ubuntu Local Security Checks	4978
Virtuozzo Local Security Checks	296
VMware ESX Local Security Checks	135
Web Servers	1231
Windows	4622
Windows : Microsoft Bulletins	2035
Windows : User management	29

PLUGIN NAME	PLUGIN ID
TeamViewer Insecure Directory Permissions Privilege Escalation	135708
2X ApplicationServer TuxSystem ActiveX ExportSettings() Method Arbitrary File Overw...	58484
2X Client TuxClientSystem ActiveX InstallClient() Method Arbitrary MSI Package Install...	58321
3CTftpSvc Long Transport Mode Remote Overflow	23735
3D-FTP Multiple Directory Traversal Vulnerabilities	33218
3DGreetings Player ActiveX Multiple Buffer Overflows	26020
3ivx MPEG-4 < 5.0.2 Buffer Overflow	29749
7-Zip < 16.00 Multiple Vulnerabilities	91230
7-Zip < 16.03 NULL Pointer Dereference DoS	109799
7-Zip < 18.00 Multiple Vulnerabilities	109800
7-Zip < 18.05 Memory Corruption Arbitrary Code Execution	109730
7-Zip < 4.57 Archive Handling Unspecified Issue	31607
7-Zip API File Handling Overflow	23750

Save

Cancel

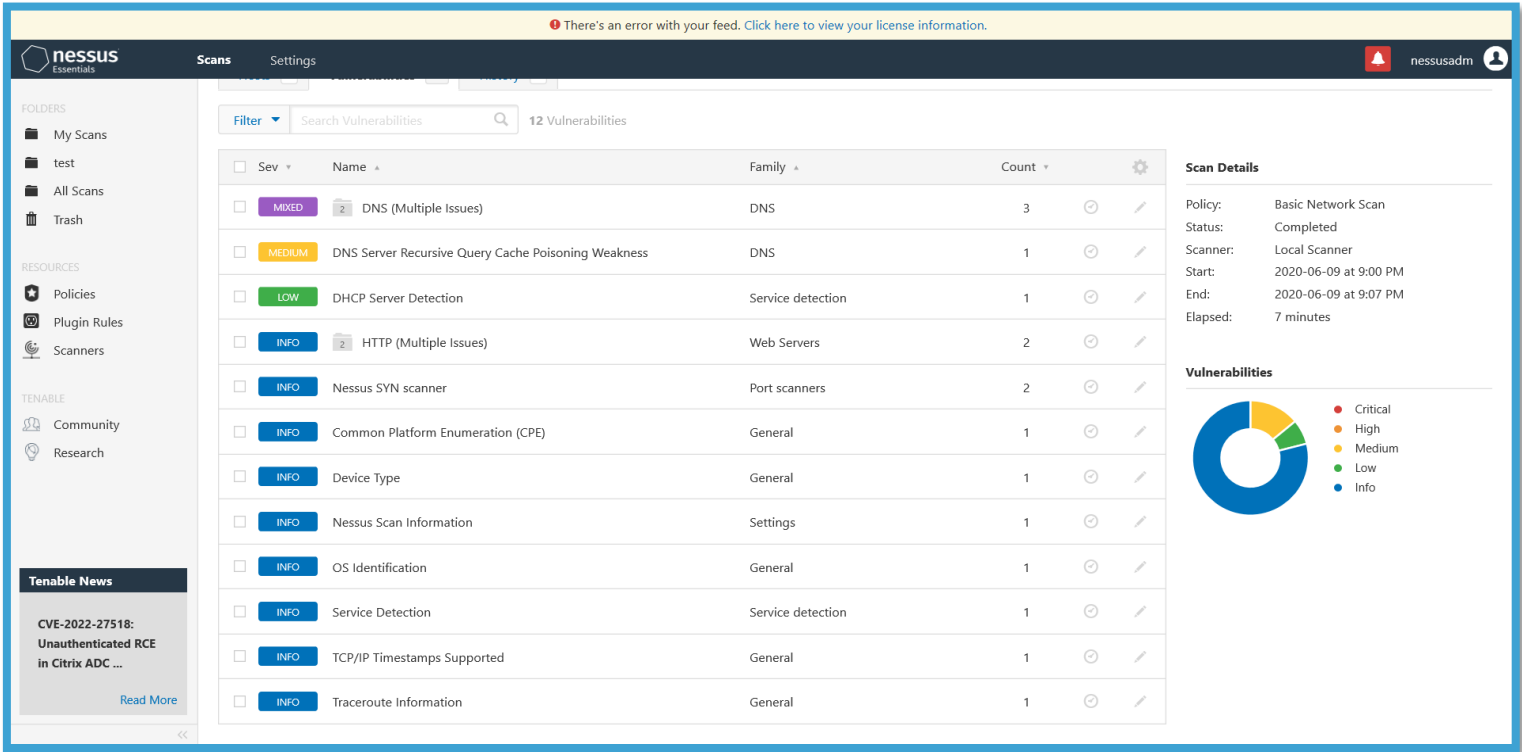
# VULNERABILITY SCAN RESULTS

## ■ Summary of findings:

■ Total number of actionable findings:

- Critical: 0
- High: 0
- Medium: 2
- Low: 1

(insert screenshot from scan results dashboard)



# REMEDIATION RECOMMENDATION

Prioritization Notes:  
(Summarize your thought process  
for how you organized these  
here)

■ Fix within 7 days: There are no “**Critical**” or “**High**” vulnerabilities.

Finding	Severity Rating	Recommended Fix

■ Fix within 14 days

Finding	Severity Rating	Recommended Fix
DNS Server Recursive Query Cache Poisoning Weakness.	MEDIUM	Restrict recursive queries to the hosts that should use this nameserver.
DNS Server Spoofed Request Amplification DDoS.	MEDIUM	Restrict access to the DNS server from public network or reconfigure it to reject such queries.

■ Fix within 30 days

Finding	Severity Rating	Recommended Fix
DHCP Server Detection	LOW	Apply filtering to keep this information off the network and remove any options that are not in use.





# PASSWORD PENETRATION TEST OUTCOME

## ■ Methodology:

1. Download the hashes file “hashed.txt” (From **Udacity**).
2. Download the wordlist “rockyou.txt” (From **GitHub**).
3. Open **CMD**.
4. Run the following command:  
hashcat.exe -m 0 -a 0 (Hash file) (Wordlist)  
Where -m: “Hash type” = “MD5”  
-a: “Attack-mode” = “Straight”

■ Number of passwords tested: 41

■ Number of passwords cracked: 4

■ Evidence of weak passwords:

```
PS C:\Users\antub\Desktop\hashcat-6.2.6> .\hashcat.exe -m 0 -a 0 C:\Users\antub\Desktop\Hashed.txt C:\Users\antub\Desktop\rockyou.txt
hashcat (v6.2.6) starting

5f4dcc3b5aa765d61d8327deb882cf99:password
fc5e038d38a57032085441e7fe7010b0:helloworld
0e9b09b77fc5391bf20f68095f867ed0:ihatepasswords
098f6bcd4621d373cade4e832627b4f6:test
Approaching final keyspace - workload adjusted.
```

## ■ Recommended steps to improve passwords security:

- Passwords should be at least 8 characters.
- Passwords should be changed every 90 days.
- Users Account should be locked out after 10 failed attempts.

# INCIDENT RESPONSE PRELIMINARY ASSESSMENT

## ■ Summarize ongoing incident:

### ■ What do you know so far?

The attack encrypts all personal documents and files. The attacker set an amount to pay to decrypt these files. The staff (Doctors, Administration) has no access to the control system, and they are not able to access the information of their patients

## ■ Document actions or notes from the following steps of the initial incident response checklist

- Step 1: Gather incident response team.
- Step 2: Review the logs to see what is the source of the incident.
- Step 3: Contain and isolate the source of the incident.
- Step 4: Remove malware from all affected systems and take action to prevent similar attacks in the future.
- Step 5: Bring affected systems back online.
- Step 6: Once the incident is over conducting proper cybersecurity training to all the staff members.

(Add another slide if needed)

# INCIDENT RESPONSE RECOMMENDED ACTION

## ■ Summarize recommendation to contain, eradicate, and recover:

- Describe the overall recommended containment, eradication, and recovery plan

The email attachment must be deleted or isolated.

The Malware which (FIN4 Bit Cryptor) will be deleted

Then restore the files and documents from backups.

Documented actions and notes from the IR checklist

- Step 7: *Malware response procedure , Insider threat procedure and g) Database or file denial of service response procedure*
- Step 8: Ensure the system is fully patched.
- Step 9: Be sure real time virus protection and intrusion detection is running.
- Step 12: Be sure the system is logging the correct events and to the proper level.

(Add another slide if needed)