

Vulnerability Management with Nessus

Install Vulnerable machine, I like to use Metasploitable2

Link to download: <https://sourceforge.net/projects/metasploitable/>

Link to configure Metasploitable: https://youtu.be/MY31DZiAPYA?si=CQjC5lco_ljhJXyb

```
* Starting deferred execution scheduler atd [ OK ]
* Starting periodic command scheduler cron [ OK ]
* Starting Tomcat servlet engine tomcat5.5 [ OK ]
* Starting web server apache2 [ OK ]
* Running local boot scripts (/etc/rc.local)
nshup: appending output to 'nshup.out'
nshup: appending output to 'nshup.out' [ OK ]

Warning: Never expose this VM to an untrusted network!
Contact: msfdev[at]metasploit.com
Login with msfadmin/msfadmin to get started

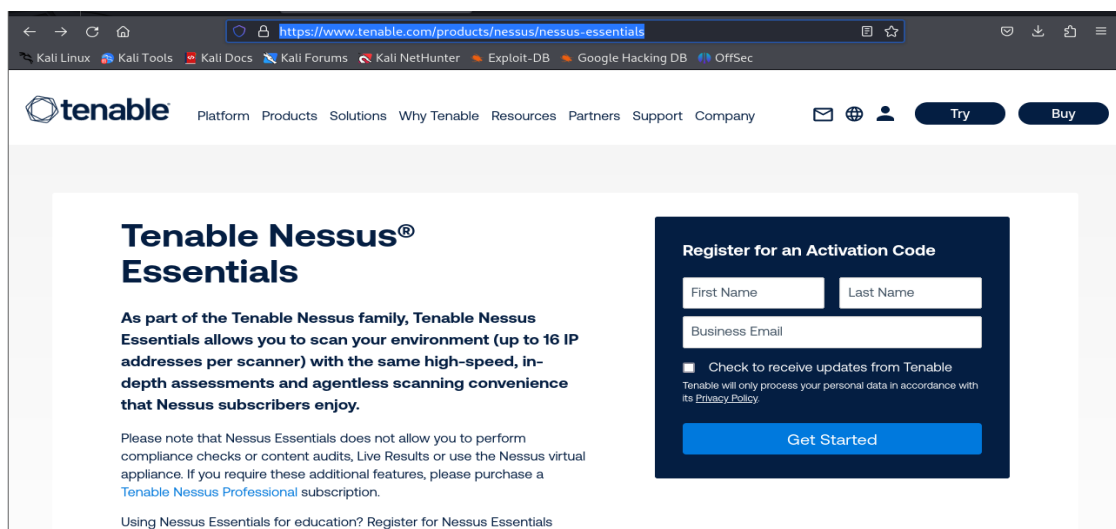
metasploitable login: _
```

Nessus Documentation for download in any OS:

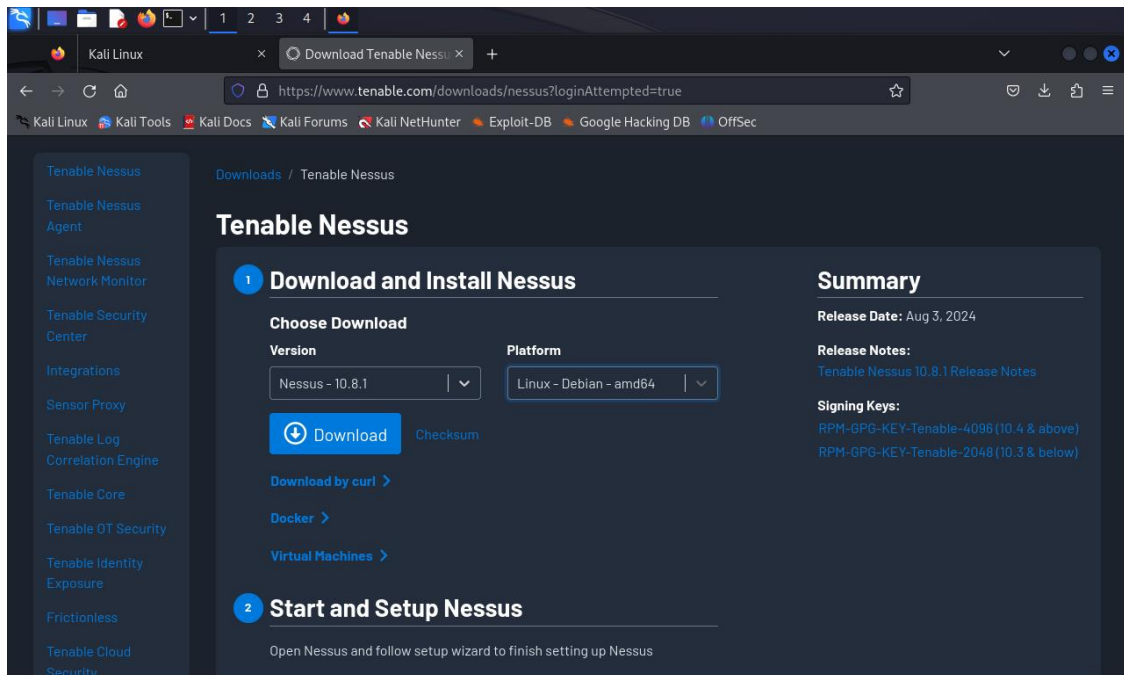
<https://docs.tenable.com/nessus/Content/Search.htm?q=linux>

In Kali Distribution:

- Link: <https://www.tenable.com/products/nessus/nessus-essentials>



- Nessus installation in Kali:

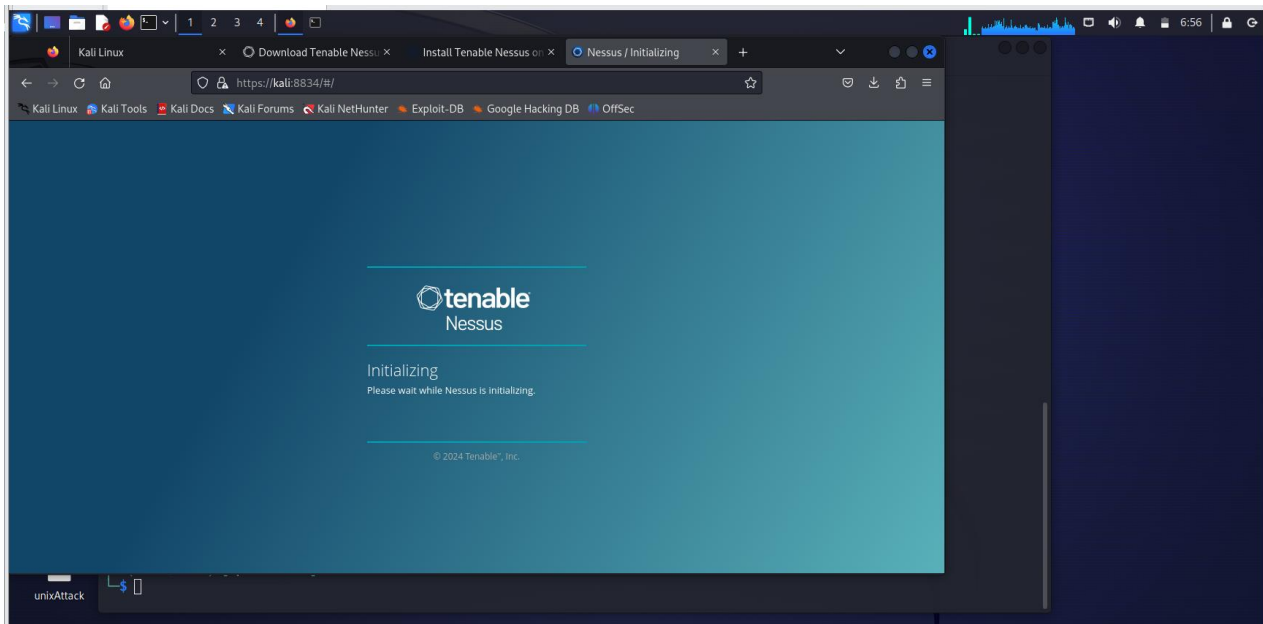


- Terminal: `sudo dpkg -i Nessus-10.8.1-debian10_amd64.deb`

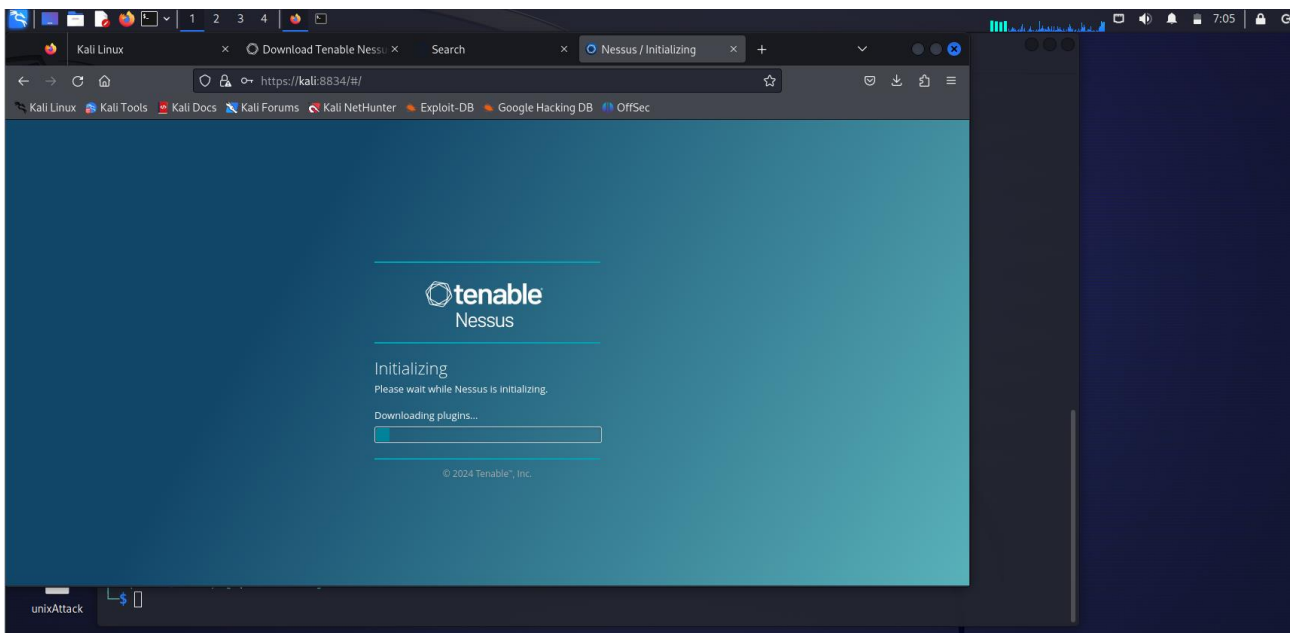


- To start and authenticate Nessus in your system: `# systemctl start nessusd`

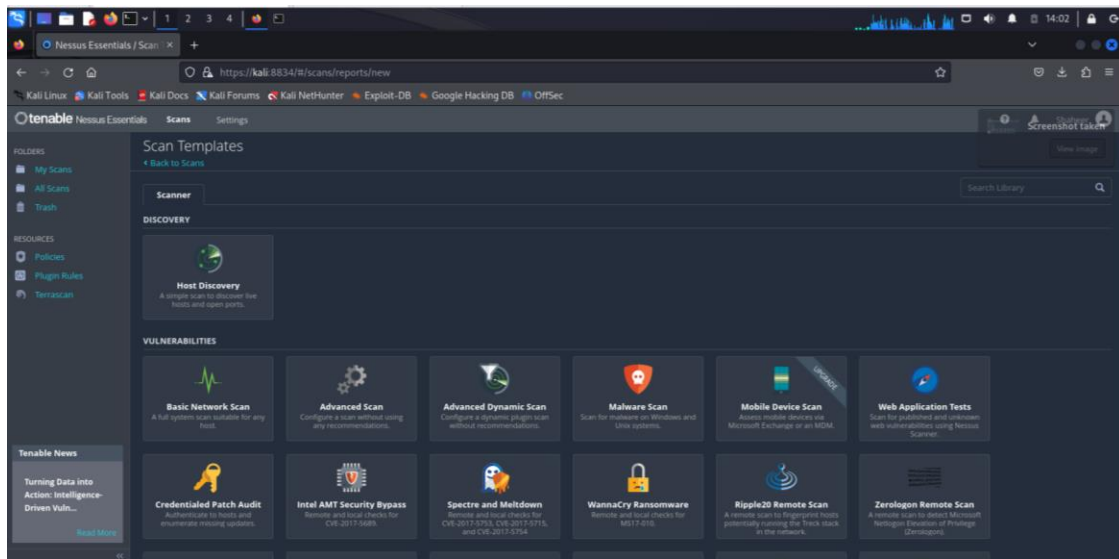
- Access The Nessus through web browser: <https://<System IP>:8834/>



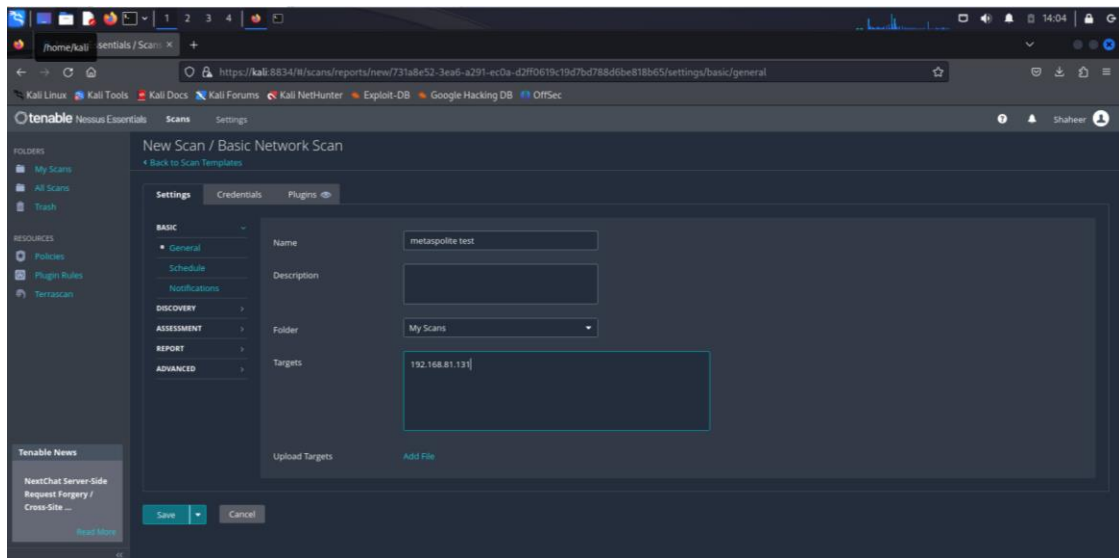
- Create an account by selecting **Register in Nessus Essential**, enter the details, and enter the activation key received via email.
(And wait for the plugin installation)



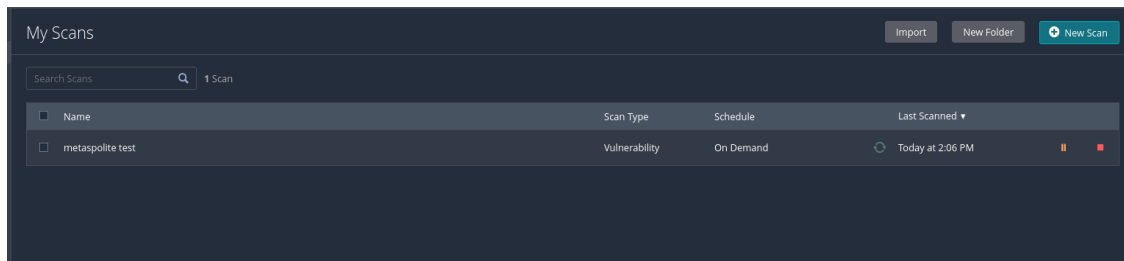
- Go to new scan -> Basic network scan



- Add your metaspoliteable2 IP:



- And start attack:



- Scanned vulnerabilities (71 Vulnerabilities found):

The screenshot shows the Tenable Nessus Essentials interface. The main panel displays a table of 71 vulnerabilities for a scan titled 'metaspolite test'. The table columns include Severity, CVSS, VPR, EPSS, Name, Family, and Count. The vulnerabilities are categorized by severity: Critical (red), High (orange), Medium (yellow), Low (green), and Info (blue).

Sev	CVSS	VPR	EPSS	Name	Family	Count
Critical	10.0*	7.4	0.6495	UnrealIRCd Backdoor Detection	Backdoors	1
Critical	10.0*	5.9	0.015	NFS Exported Share Information Disclosure	RPC	1
Critical	10.0*			VNC Server 'password' Password	Gain a shell remotely	1
Critical	9.8			SSL Version 2 and 3 Protocol Detection	Service detection	2
Critical	9.8			Bind Shell Backdoor Detection	Backdoors	1
Info				Apache Tomcat (Multiple Issues)	Web Servers	4
Critical				SSL (Multiple Issues)	Gain a shell remotely	3
High	7.5	5.9	0.0323	Samba Backdoor Vulnerability	General	1
High	7.5*	5.9	0.015	rlogin Service Detection	Service detection	1
High	7.5*	5.9	0.015	rsh Service Detection	Service detection	1

The right-hand panel shows 'Scan Details' for the 'metaspolite test' scan, including the policy, status, severity base, scanner, start/end times, and elapsed time. Below this is a 'Vulnerabilities' section with a donut chart showing the distribution of vulnerabilities by severity.

- Exploit anyone of vuln: i.e. VNC default password:

The screenshot shows the Tenable Nessus Essentials interface with the details of a specific vulnerability: 'VNC Server 'password' Password' (Plugin #61708). The main panel displays the description, solution, and output of the vulnerability. The right-hand panel shows the 'Plugin Details' and 'Risk Information' for the vulnerability.

Description: The VNC server running on the remote host is secured with a weak password. Nessus was able to login using VNC authentication and a password of 'password'. A remote, unauthenticated attacker could exploit this to take control of the system.

Solution: Secure the VNC service with a strong password.

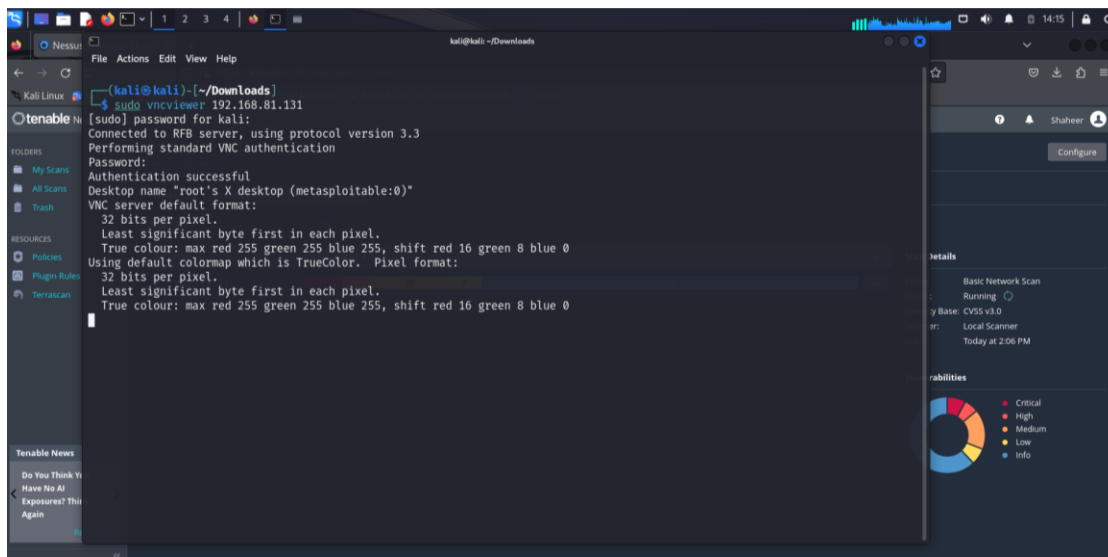
Output: Beesux logged in using a password of "password".
To see debug logs, please visit individual host

Port: 5900/tcp/vnc
Hosts: 192.168.81.131

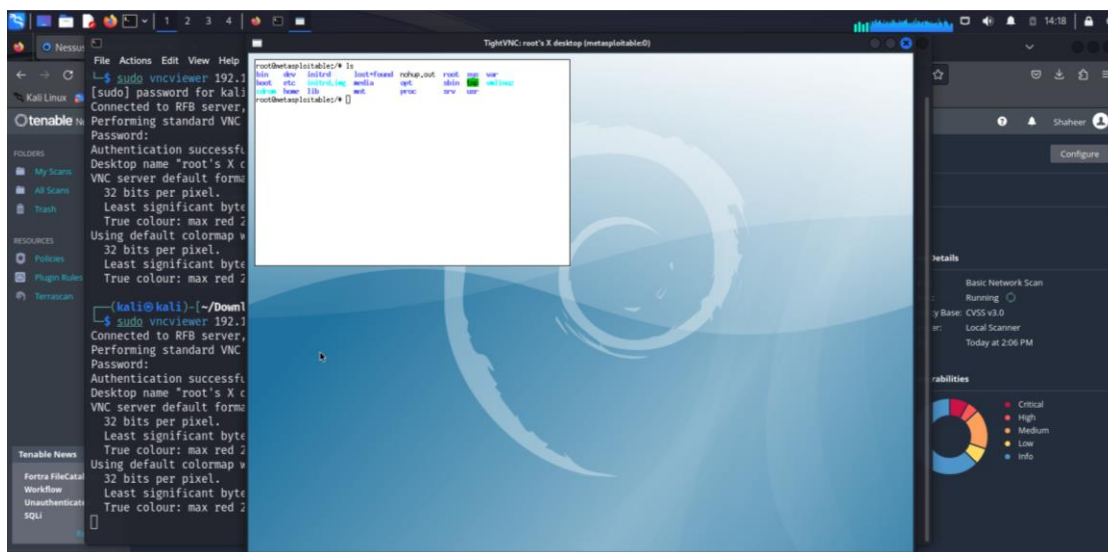
Plugin Details: Severity: Critical, ID: 61708, Version: 1.2.9, Type: remote, Family: Gain a shell remotely, Published: August 29, 2012, Modified: September 24, 2015.

Risk Information: Risk Factor: Critical, CVSS v2.0 Base Score: 10.0, CVSS v2.0 Vector: CVSS2#AV/N/A/C/L/Au/N/C/C/AC/A/C

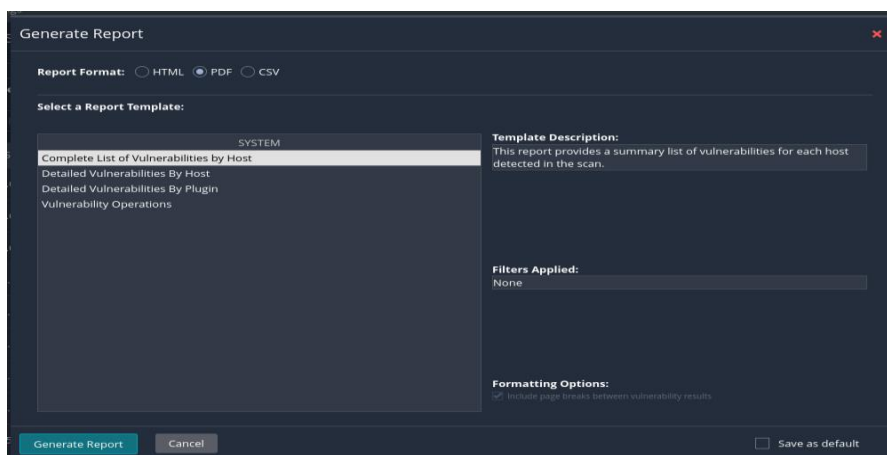
Vulnerability Information: Default Account: true, Exploited by Nessus: true



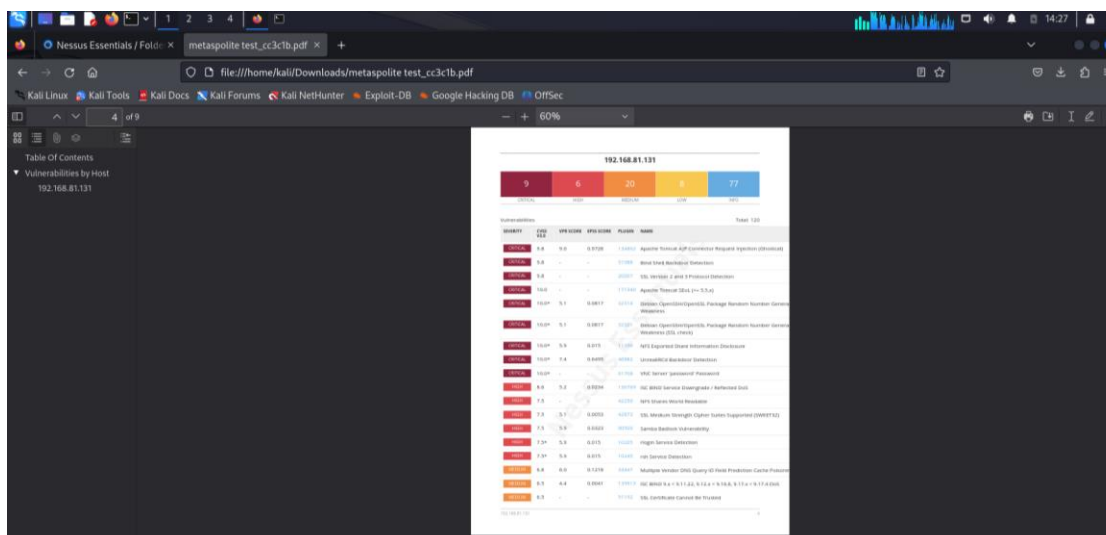
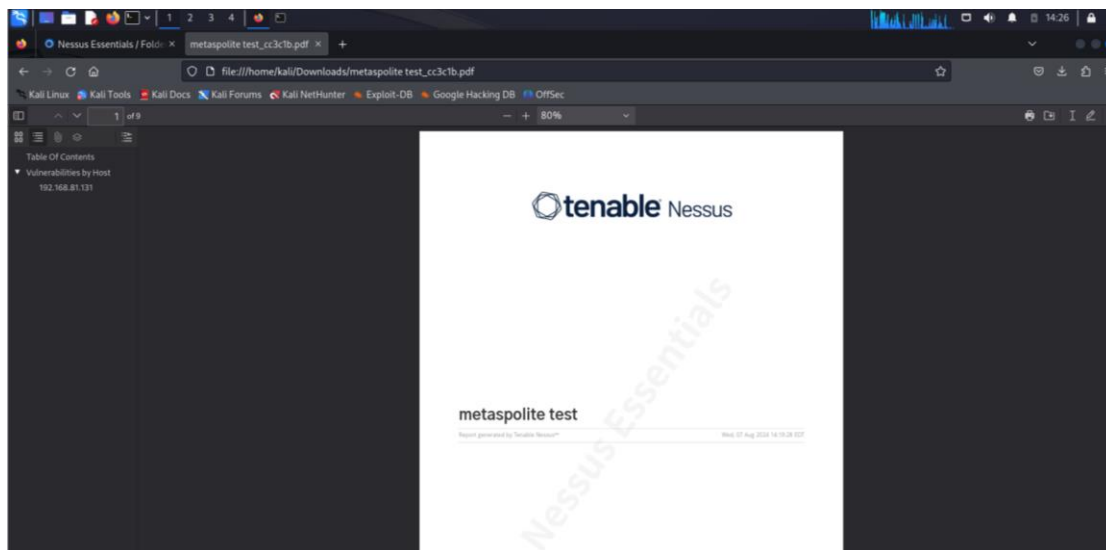
Remote access:



- Report generation (Choose template):



The report will be downloaded in your download section:



Happy Hacking ☺