Nessus

Learn how to set up and use Nessus, a popular vulnerability scanner.

Nessus is a vulnerability scanner to find and report vulnerabilities.

Task 2: Installation

- Register an account to get an activation code: here
- download the Nessus-#.##.#-debian6_amd64.deb file
- go to the folder you have the file downloaded (most likely your download folder): cd Download/
- install the package using: sudo dpkg -i <filename>
- > start Nessus service using: sudo /bin/systemctl start nessusd.service
- Open up Firefox and go to the following URL: https://localhost:8834/
- > Set up the scanner by selecting the option **Nessus Essentials**
- Input the activation code and set your username and password
- The plugins will take some time to download, then you have successfully installed Nessus

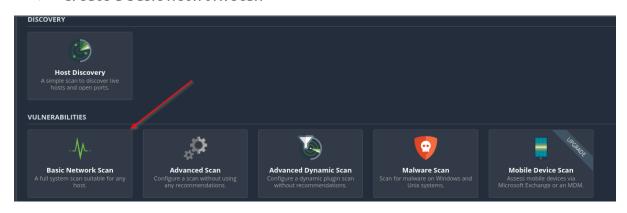
Task 3: Navigation and Scans

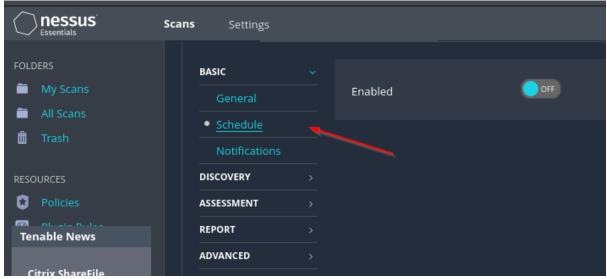
> The answers to the questions for this task can be located within the Nessus application.

Question	Answers
What is the name of the button which is used to launch a	New Scan
scan?	
What side menu option allows us to create custom	Policies
templates?	
What menu allows us to change plugin properties such as	Plugin Rules
hiding them or changing their severity?	
In the 'Scan Templates' section after clicking on 'New Scan',	Host Discovery
what scan allows us to see simply what hosts are alive?	
One of the most useful scan types, which is considered to be	Basic Network
'suitable for any host'?	Scan
What scan allows you to 'Authenticate to hosts and	Credentialed
enumerate missing updates'?	Patch Audit
What scan is specifically used for scanning Web	Web Application
Applications?	Tests

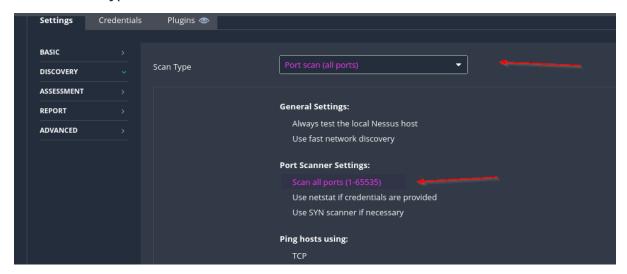
Task 4: Scanning!

> Create a basic network scan

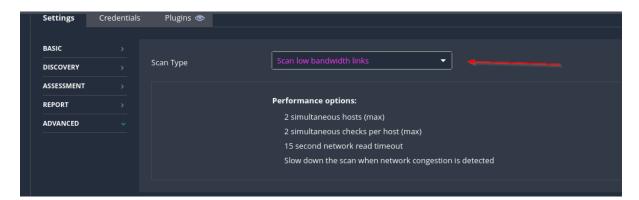




➤ Under 'DISCOVERY' (on the left) set the 'Scan Type' to cover ports 1-65535. What is this type called?



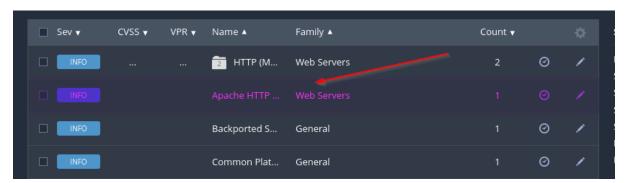
➤ What 'Scan Type' can we change to under 'ADVANCED' for lower bandwidth connection?



> which 'Vulnerability' in the 'Port scanners' family can we view the details of to see the open ports on this host?



Apache HTTP Server Version reported by Nessus?



The remote host is running the Apache HTTP Server, an open source web server. It was possible to read the version number from the banner.

See Also
https://httpd.apache.org/

Output

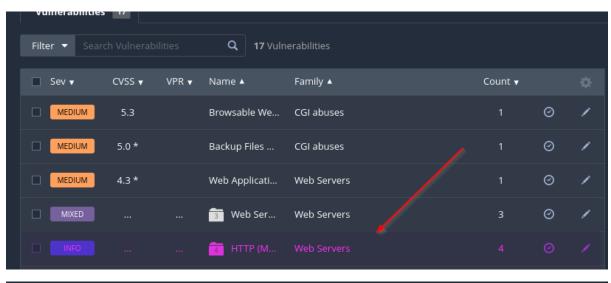
URL : http://10.10.1.150/
Version : 2.4.99
Source : Server: Apache/2.4.25 (Debian)
backported : 1
os : ConvertedDebian

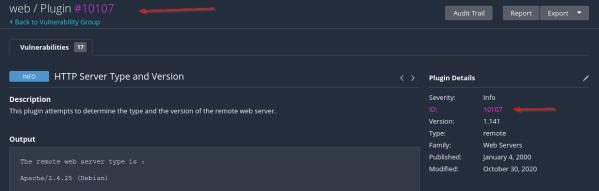
To see debug logs, please visit individual host
Port A Hosts

Question	Answers
Create a new 'Basic Network Scan' targeting the deployed VM. What option can we set under 'BASIC' (on the left) to set a time for this scan to run? This can be very useful	Schedule
when network congestion is an issue	
Under 'DISCOVERY' (on the left) set the 'Scan Type' to cover	Port scan (all
ports 1-65535. What is this type called?	ports)
What 'Scan Type' can we change to under 'ADVANCED' for	Scan low
lower bandwidth connection?	bandwidth links
After the scan completes, which 'Vulnerability' in the 'Port	Nessus SYN
scanners ' family can we view the details of to see the open	scanner
ports on this host?	
What Apache HTTP Server Version is reported by Nessus?	2.4.99

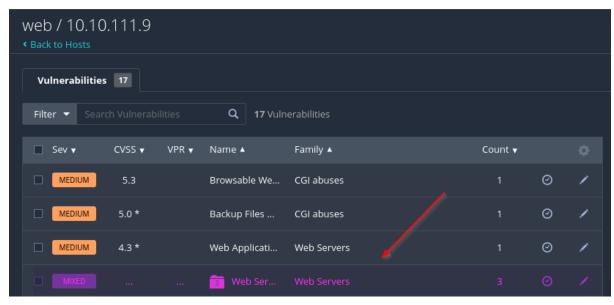
Task 5: Scanning a Web Application!

> Go to the web application scan type and scan your target

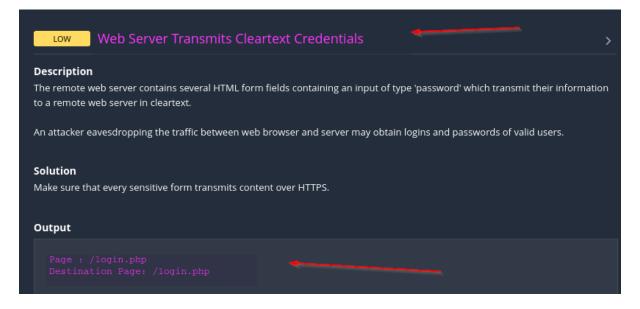




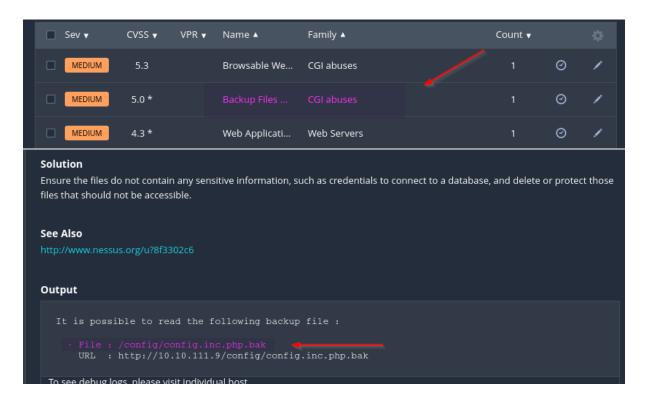
authentication page discovered by the scanner that transmits credentials in cleartext



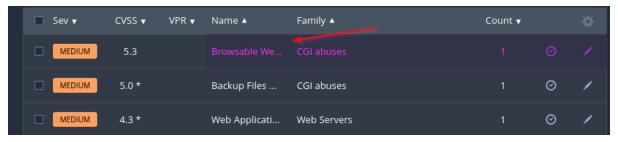




What is the file extension of the config backup?



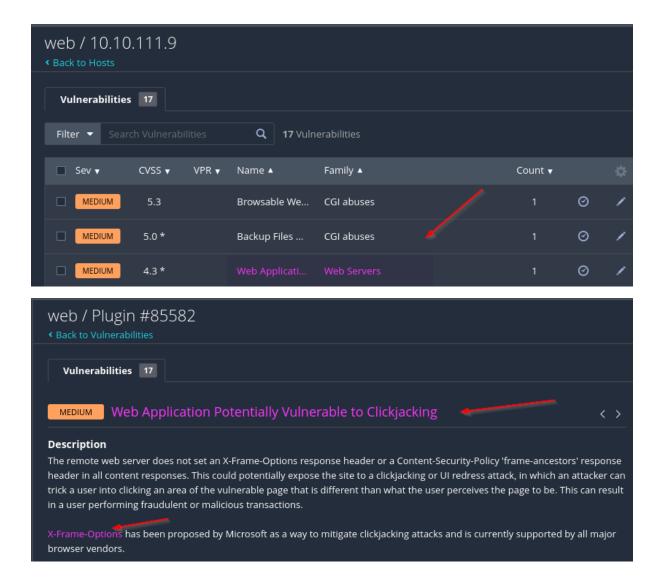
Which directory contains example documents? (This will be in a php directory)



```
The following directories are browsable:

http://10.10.111.9/config/
http://10.10.111.9/docs/
http://10.10.111.9/dwa/
http://10.10.111.9/dwa/
http://10.10.111.9/dwa/images/
http://10.10.111.9/dwa/includes/
http://10.10.111.9/dwa/includes/
http://10.10.111.9/dwa/includes/
http://10.10.111.9/dwa/js/
http://10.10.111.9/external/
http://10.10.111.9/external/phpids/
http://10.10.111.9/external/phpids/0.6/
http://10.10.111.9/external/phpids/0.6/docs/
http://10.10.111.9/external/phpids/0.6/docs/examples/
http://10.10.111.9/external/phpids/0.6/lib/
http://10.10.111.9/external/phpids/0.6/lib/IDS/
http://10.10.111.9/external/phpids/0.6/tests/
http://10.10.111.9/external/phpids/0.6/tests/
http://10.10.111.9/external/phpids/0.6/tests/
http://10.10.111.9/external/phpids/0.6/tests/
http://10.10.111.9/external/phpids/0.6/tests/
```

➤ What vulnerability is this application susceptible to that is associated with X-Frame-Options?



Question	Answers
What is the plugin id of the plugin that determines the HTTP server type and version?	10107
What authentication page is discovered by the scanner that transmits credentials in cleartext?	login.php
What is the file extension of the config backup?	.bak
Which directory contains example documents? (This will be in a php directory)	/external/phpids/0.6/docs/examples/
What vulnerability is this application susceptible to that is associated with X-Frame-Options?	Clickjacking

END.