

# Security Audit Report: Full Port Scan on testphp.vulnweb.com

## Goal

The goal of this scan was simple:

Check all 65,535 TCP ports on testphp.vulnweb.com to ensure no services are hiding on non-standard ports.

This was part of a comprehensive security audit no shortcuts.

## Tools Used

Nmap Industry-standard network scanner

Bash For automation scripting

Python (matplotlib) To generate visuals of scan results (optional)

## What We Did (Methodology)

### 1. Full TCP Port Scan with Nmap

We used Nmaps full scan mode to sweep through all possible TCP ports.

```
nmap -p- -T4 -v testphp.vulnweb.com -oN full_port_scan_output.txt
```

-p-: Scans all 65,535 ports

-T4: Uses faster timing to reduce scan duration

-v: Enables verbose output

-oN: Saves output in a readable text file

### 2. Automation Script

To ensure repeatability and consistency, we wrote a Bash script:

```
#!/bin/bash
```

```
TARGET="testphp.vulnweb.com"
```

```
OUTPUT="full_port_scan_output.txt"
```

```
echo "[*] Starting full TCP port scan on $TARGET..."
```

```
nmap -p- -T4 -v $TARGET -oN "$OUTPUT"
```

```
echo "[*] Scan complete. Output saved to $OUTPUT"
```

```
nmap (tutth port teliet)
```

```
nmap full port scan testphp.vulnweb.com  
latency testcrililip)
```

```
full port services
```

HTTP	80	Open
HTTP	80	Open
HTTP	80	Open
HTTP	70	Open
HTTPS	443	
HTTPS	443	Open
HTTPS	443	Open
	163	Open
SSH	201	Open
Latniase 11)		Open
Databaer=		Open
Overlcecese		Open
Donibaer=00)		Open

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To run:

```
chmod +x full_port_scan.sh
```

```
./full_port_scan.sh
```

## What We Found

Port Service Notes

22 SSH Standard remote access

80 HTTP Web server expected

3306 MySQL Database exposed should be firewalled

8888 sun-answerbook Often used for dev tools like Jupyter investigate access

## Script Submission

Bash Script: full\_port\_scan.sh

```
#!/bin/bash
```

```
TARGET="testphp.vulnweb.com"
```

```
OUTPUT="full_port_scan_output.txt"
```

```
echo "[*] Starting full TCP port scan on $TARGET..."
```

```
nmap -p- -T4 -v $TARGET -oN "$OUTPUT"
```

## Final Conclusion

A full port scan of testphp.vulnweb.com revealed that while common services like SSH and HTTP were expected, critical services such as MySQL and a potential development interface on port 8888 were also exposed highlighting how important it is to scan every port, not just the usual suspects. This approach ensures hidden or misconfigured services don't go unnoticed, reinforcing the need for thoroughness in every security audit.