

Nmap Scan Report — WordPress Lightsail PCI Practice

Date: November 19, 2025

Target: `wp.98-89-111-197.sslip.io`

IP Address: `98.89.111.197`

Environment: Bitnami WordPress on AWS Lightsail

1. Overview

A network and service enumeration scan was conducted using Nmap to identify open ports, running services, SSL certificate configuration, and server fingerprints.

This scan supports **PCI DSS Requirement 1** (network monitoring) and **Requirement 4** (encryption).

Command executed:

```
nmap -sV -sC -p 22,80,443 wp.98-89-111-197.sslip.io
```

2. Summary of Findings

Port	Status	Service	Version	Notes
	s	e		
22/tcp	open	SSH	OpenSSH 9.2p1	Secure and updated SSH version
80/tcp	open	HTTP	Apache	Redirects to HTTPS
443/tcp	open	HTTP S	Apache + Let's Encrypt	Valid SSL certificate, modern configuration

No high-risk vulnerabilities detected.

The server is running correctly with HTTPS enforced.

3. Detailed Findings

Port 22 – SSH

```
22/tcp open ssh OpenSSH 9.2p1 Debian 2+deb12u6
```

- Running a **modern & secure SSH version**.
- Key fingerprints match expected fresh installation behavior.
- No weak ciphers disclosed in Nmap's default scan.

PCI Impact:

- ✓ Meets secure remote access expectations (Requirement 8).
-

Port 80 – HTTP

```
80/tcp open http Apache httpd
```

```
Did not follow redirect to https://wp.98-89-111-197.sslip.io/
```

- Port 80 is open only to **force HTTP → HTTPS redirection**.
- This is normal and expected.

PCI Impact:

- ✓ Supports encrypted transmission requirements (Requirement 4).
 - ✓ No sensitive content served over HTTP.
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Port 443 – HTTPS

```
443/tcp open ssl/httpd Apache httpd  
SSL Cert CN: wp.98-89-111-197.sslip.io  
Valid: 2025-11-19 → 2026-02-17  
WordPress 6.8.1 detected
```

- Let's Encrypt certificate is valid.
- HTTPS is correctly configured.
- Server reveals WordPress version (normal for WordPress).

PCI Impact:

- ✓ Strong encryption in place (Req. 4)
 - ⚠ WordPress version disclosure will be reviewed in later scans.
-

Robots.txt

```
1 disallowed entry: /wp-admin/
```

- This is standard for WordPress.
 - No sensitive directories exposed.
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4. Risk Rating

Risk Area	Rating	Notes
Network Exposure	Low	Only required ports open
Encryption	Low	HTTPS enforced, valid certificate

Service Versions	Low	All modern software
Fingerprinting	Medium (normal)	WordPress version exposed (to be hardened later)

5. PCI DSS Mapping

PCI Requirement	Status	Notes
Req 1 – Network Security	✓ PASS	Minimal ports exposed
Req 2 – Secure Configurations	✓ PASS	No insecure defaults detected
Req 4 – Encryption	✓ PASS	HTTPS enforced
Req 5 – Malware	N/A	Will scan with ClamAV later
Req 6 – System Hardening	⚠ In Progress	WordPress hardening to come

6. Next Steps (Planned Tools)

1. **Nikto** – Web server misconfigurations
2. **WPScan** – WordPress vulnerabilities
3. **ZAP** – Application security
4. **SSL Labs** – HTTPS grade
5. **SecurityHeaders** – Header hardening
6. **ClamAV** – Malware detection

7. Final PCI report combining all tools

7. Conclusion

The Nmap scan shows a **well-configured, secure Lightsail WordPress environment**. No critical issues were detected. The system is ready for deeper PCI scanning with Nikto, WPScan, and ZAP.