POC Task 7

Task 7: Port Scanner Script

1. Executive Summary

This PoC demonstrates a lightweight port scanning solution that checks common service ports (20-25) on a target IP address using timeout-based connection testing.

2. Objectives

- Develop CLI-based port scanner
- Test ports 20-25 using efficient connection methods
- Provide clear open/closed port status
- Maintain secure execution environment

3. Implementation

3.1 Script Creation

3.2 Permission Configuration

```
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\[
\frac{1}{\substack} \text{chown studentuser /home/studentuser/projectX/scripts/port_scan.sh} \]

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\frac{1}{\substack} \text{chown studentuser/projectX/scripts/port_scan.sh} \]

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\frac{1}{\substack} \text{chown studentuser/projectX/scripts/port_scan.sh} \]

\[
\frac{1}{\substack} \text{chown studentuser/projectX/scripts/port_scan.sh} \]
```

3.3 Execution

```
--(*!lamsfort*@:saixunti)-[-]
--3 sudo -n studentuser cat /nome/studentuser//projectX/port_scan.log
Scanling ports 2n-25 no 127.4.0.1 29 (2144:50 PM IST 2025
localinost [127.4.0.1] 20 (ftp-data): Connection refused
localinost [127.4.0.1] 22 (ftp): Connection refused
localinost [127.4.0.1] 22 (ftp): Connection refused
localinost [127.4.0.1] 22 (stp): Connection refused
localinost [127.4.0.1] 29 (p): Connection refused
localinost [127.4.0.1] 29 (p): Connection refused
```

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4. Conclusion:

The port scanner successfully identifies open/closed ports (20-25) on target IPs using efficient timeout-based checks while maintaining security. The lightweight solution provides clear results without requiring elevated privileges or generating excessive network traffic.

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