POC Task 2

Task 2: Networking Toolkit PoC

1. Executive Summary

This PoC created an automated network diagnostic tool (netinfo.sh) that collects and logs system networking information. The script successfully generated a comprehensive report with IP configuration, open ports, connectivity tests, and DNS resolution.

2. Objectives

- Create an automated script to collect network information
- Log IP configuration, open ports, and connectivity tests
- Verify proper script execution under user permissions

3. Steps

3.1 Script Creation

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3.2 Permission Configuration

```
(llamafart⊗ jaivanti)-[~]

$ sudo chown studentuser:studentuser /home/studentuser/projectX/scripts/netinfo.sh
```

3.3 Script Execution

```
(llamafart@jaivanti)-[~]
$ sudo chmod +x /home/studentuser/projectX/scripts/netinfo.sh

(llamafart@jaivanti)-[~]
$ sudo -u studentuser /home/studentuser/projectX/scripts/netinfo.sh
Network report saved to: /home/studentuser/projectX/network_report.txt
```

3.4 Verification

5. Conclusion:

This PoC successfully automated network diagnostics through a secure script that executed with restricted permissions. The solution effectively collected and logged critical network configuration data while maintaining system security.

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