Thynk Unlimited

CYBER SECURITY

Protecting the Digital World

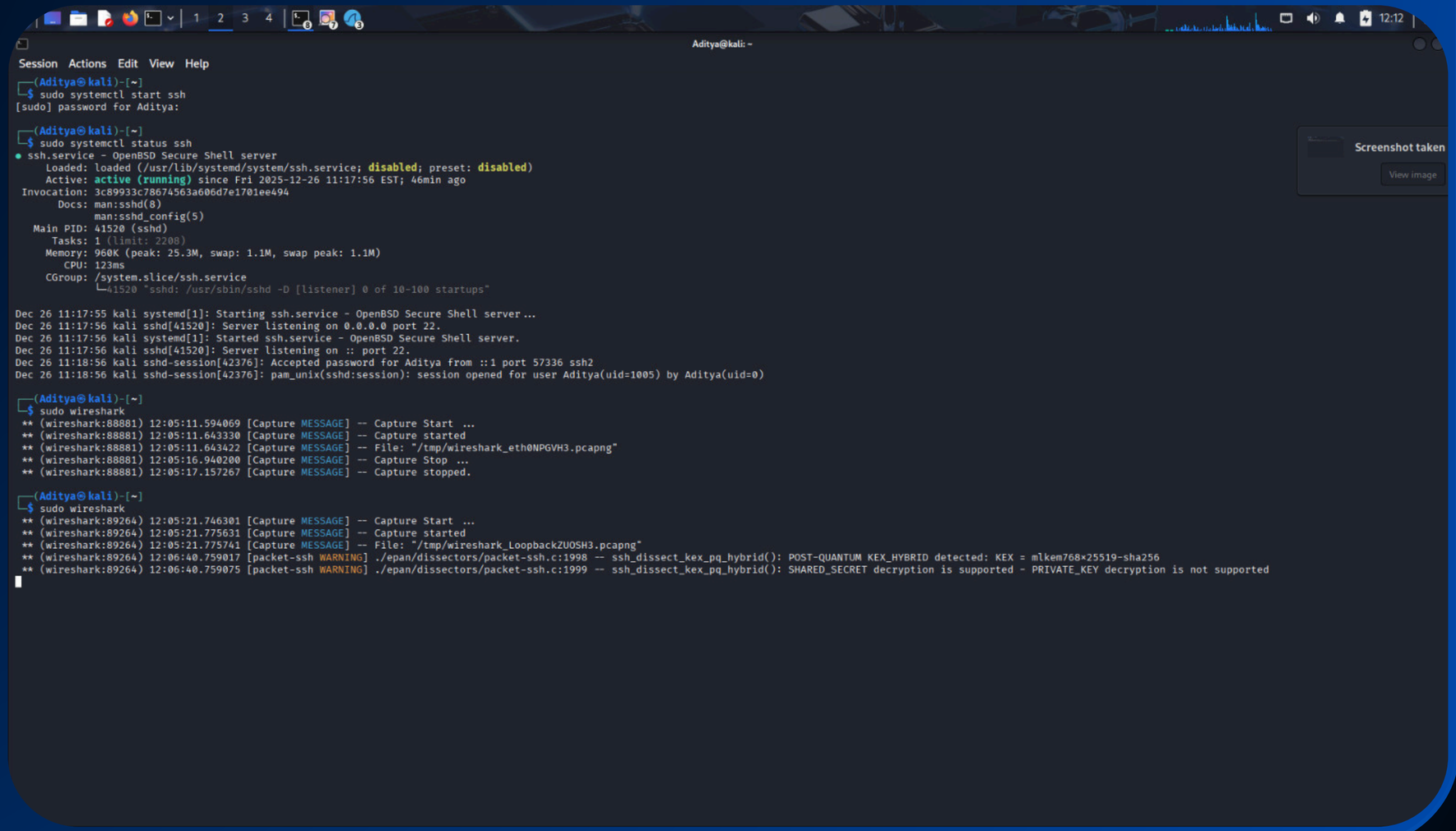
Made by:

ADITYA KUMAR SRIVASTAVA
SEMESTER = 3
ERP = 6606491
MINOR 1 PROJECT
GROUP G4

KALI LINUX ENVIRONMENT SETUP

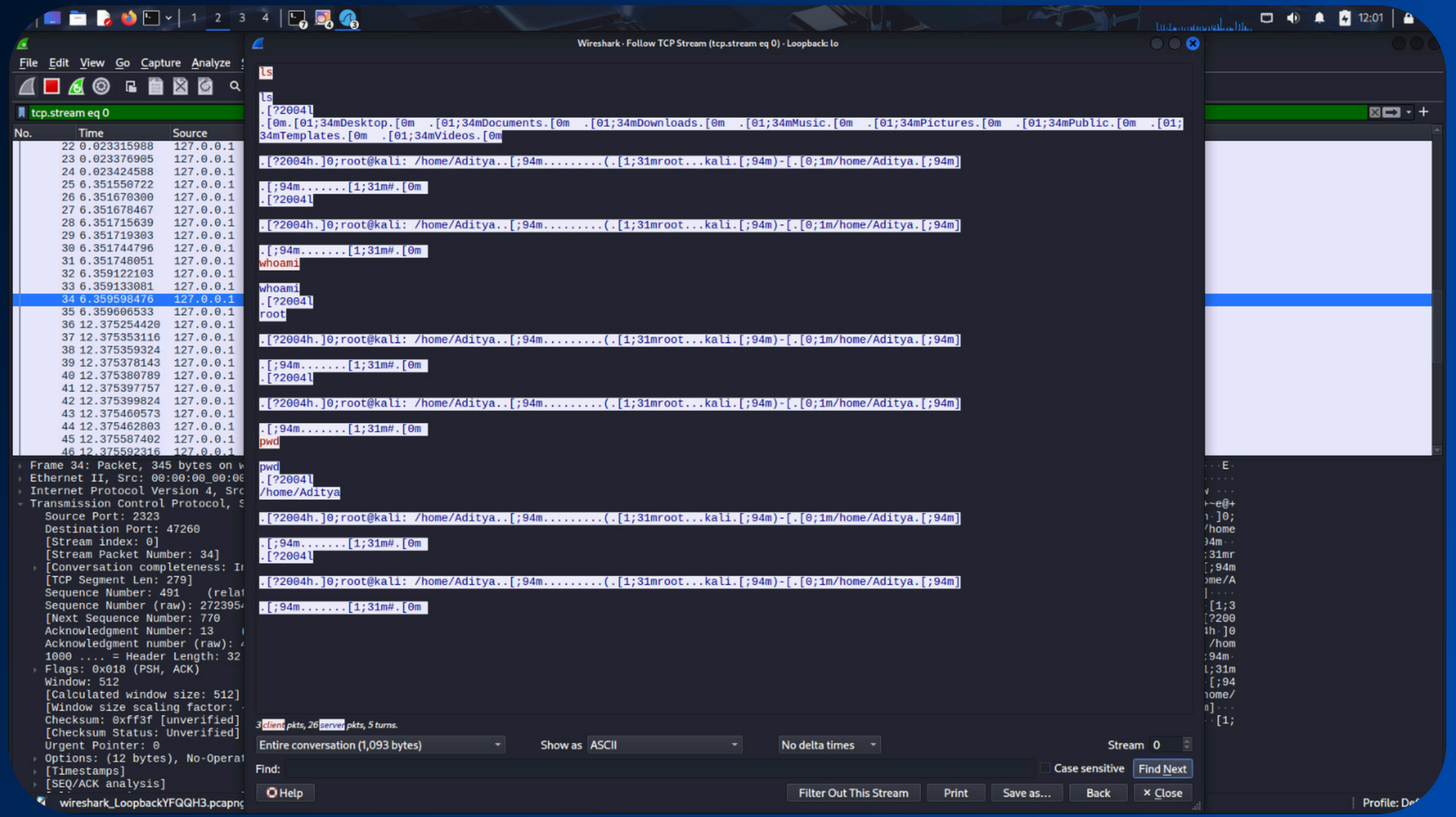
The Foundation of Digital Protection

- Kali Linux system initialized successfully.
- Terminal environment ready for network testing.
- Used as attacker machine for experiment.



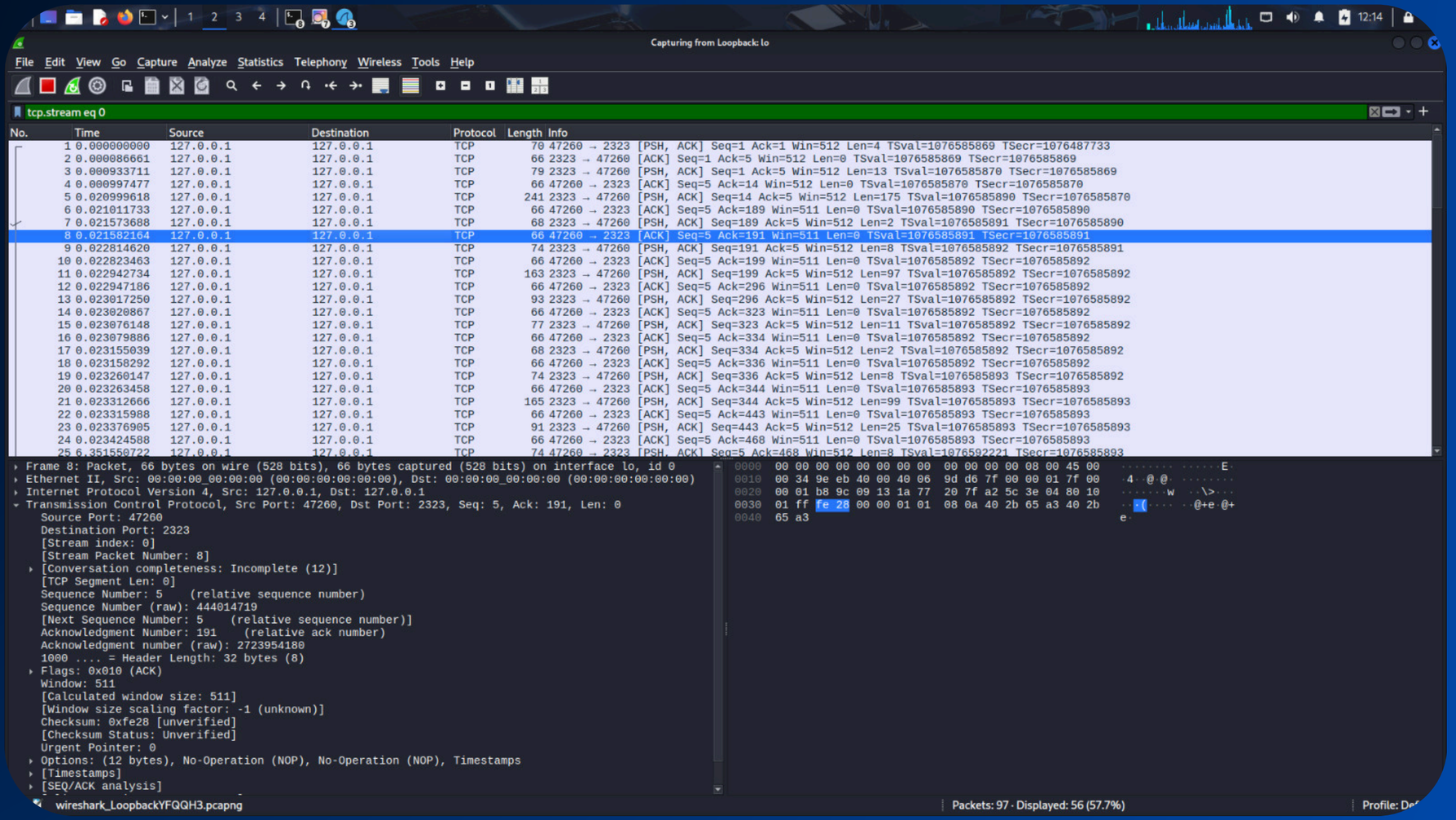
TELNET SERVICE CONFIGURATION

- Telnet service installed using system package manager.
- Service verified and running successfully.
- System ready to accept Telnet connections.



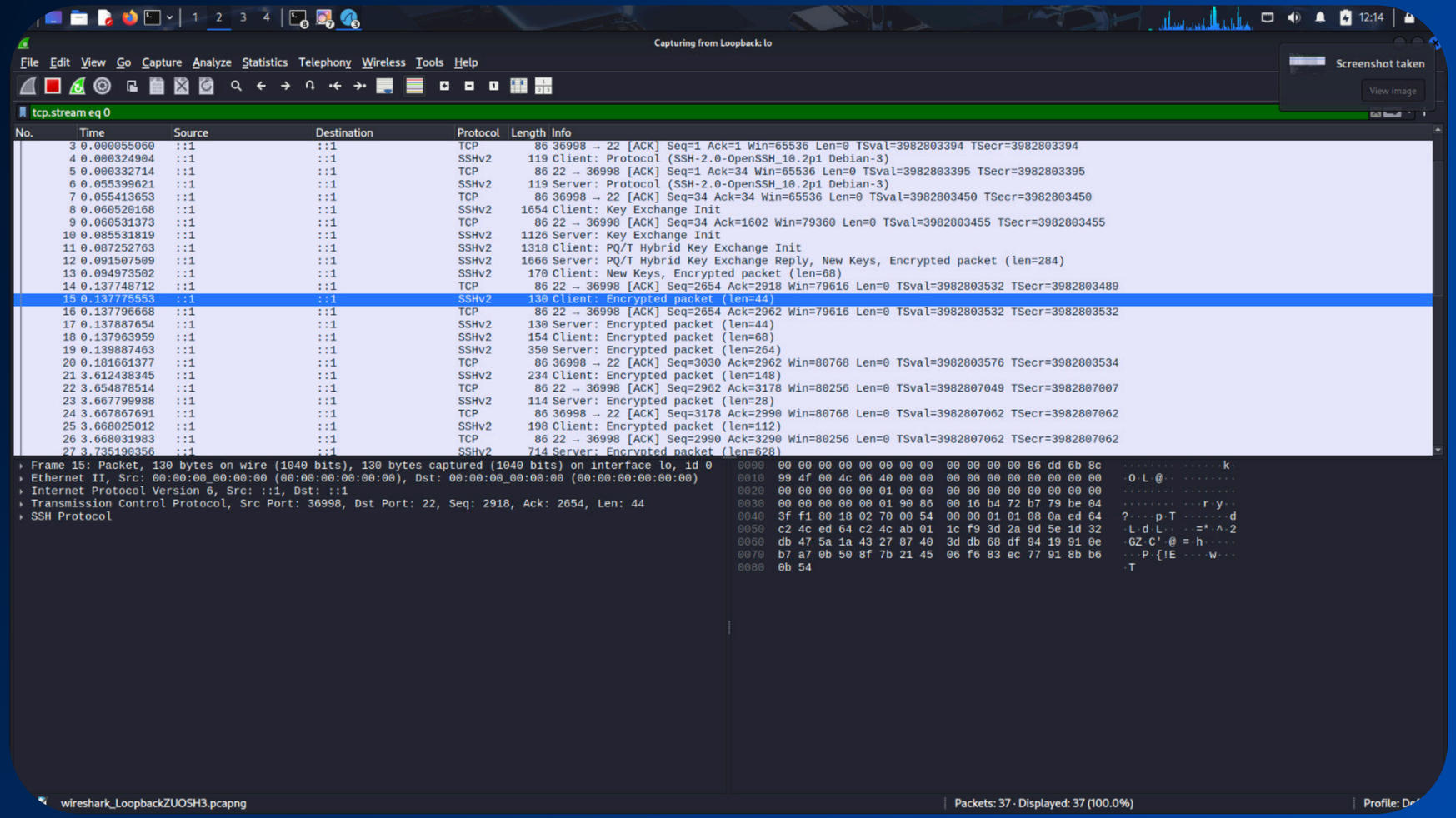
TELNET COMMAND EXECUTION

- Commands executed through Telnet.
- Output visible in clear text.
- Confirms lack of encryption in Telnet.



WIRESHARK CAPTURING TELNET TRAFFIC

- Network packets captured on loopback interface.
- Traffic recorded during Telnet session.
- Packet inspection enabled.

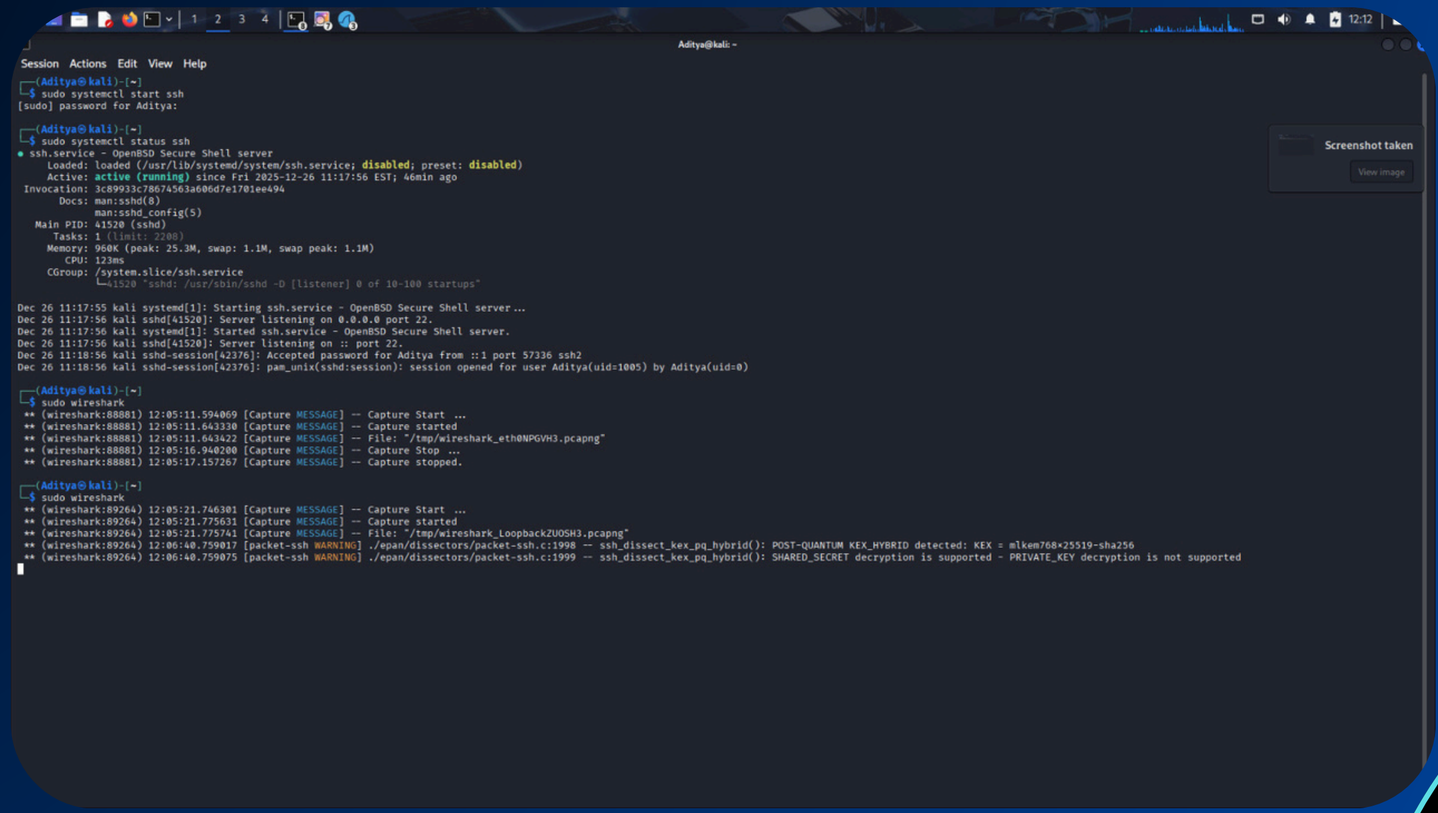


PLAIN-TEXT CREDENTIAL EXPOSURE

- User credentials visible in packet data.
- Commands readable in ASCII format.
- Demonstrates Telnet security weakness.

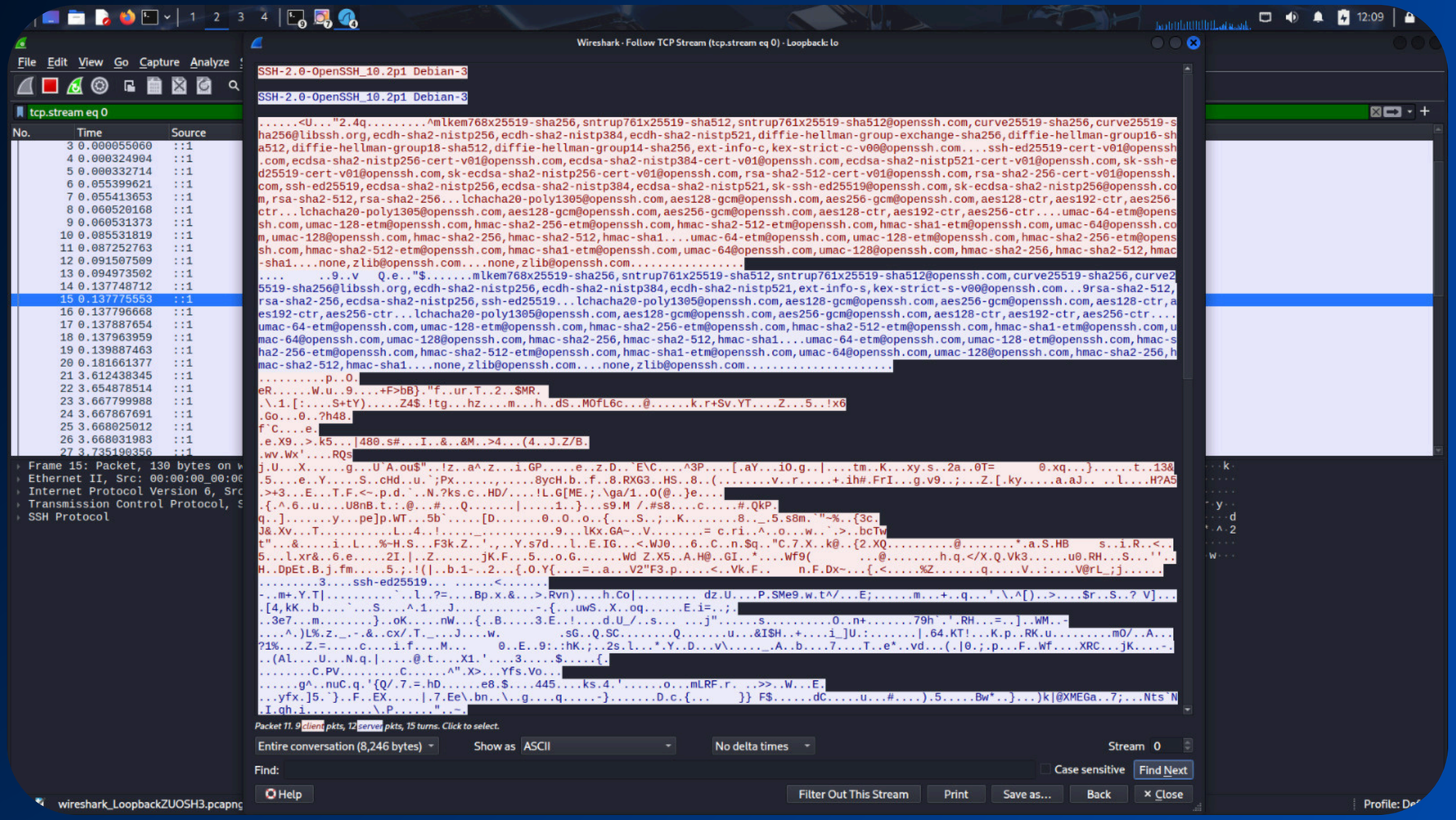
SSH SERVICE CONFIGURATION

- User credentials visible in packet data.
- Commands readable in ASCII format.
- Demonstrates Telnet security weakness.



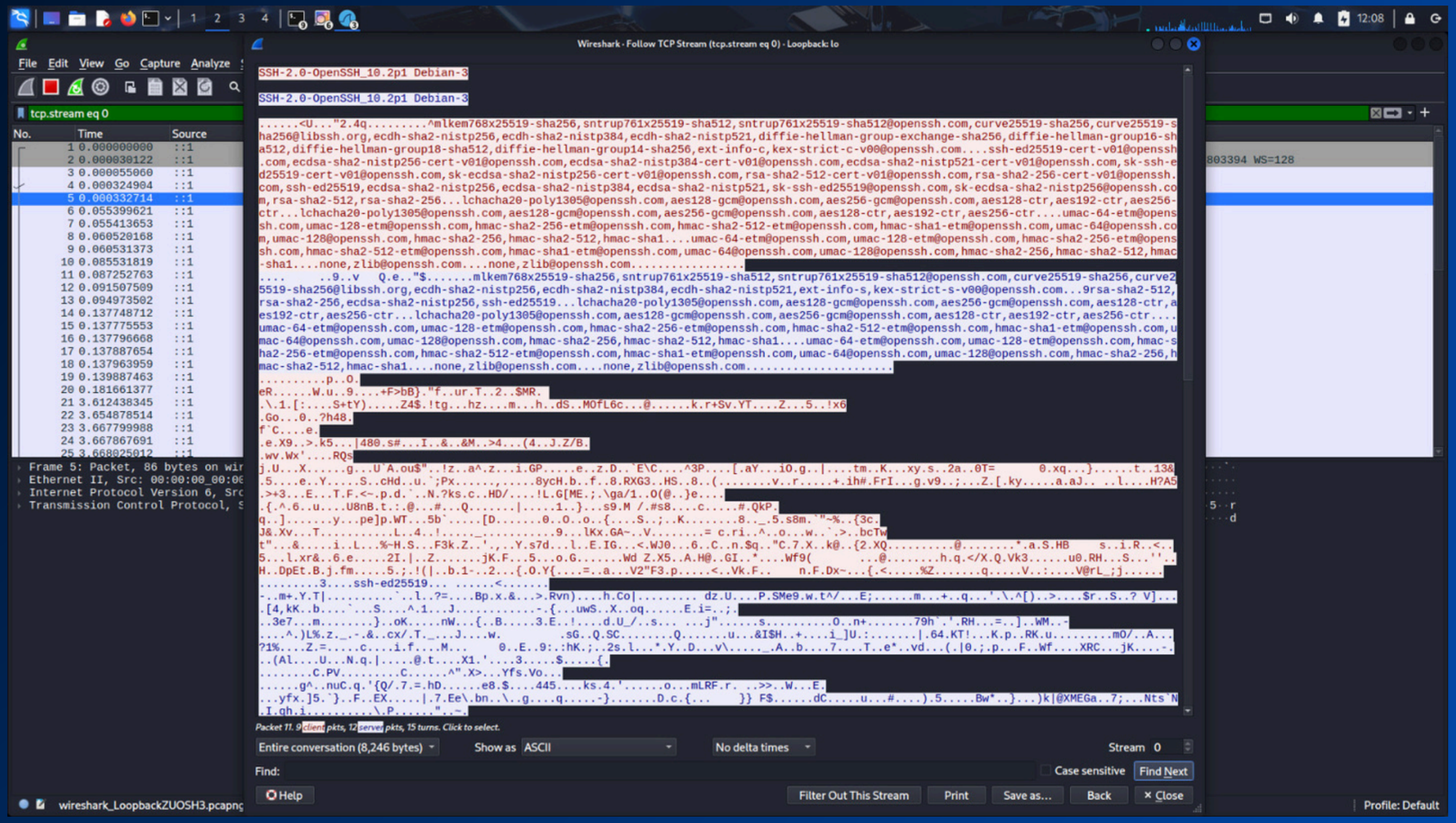
SSH CONNECTION ESTABLISHMENT

- User authenticated using SSH.
- Encrypted connection established.
- Secure remote access achieved.



ENCRYPTED SSH TRAFFIC IN WIRESHARK

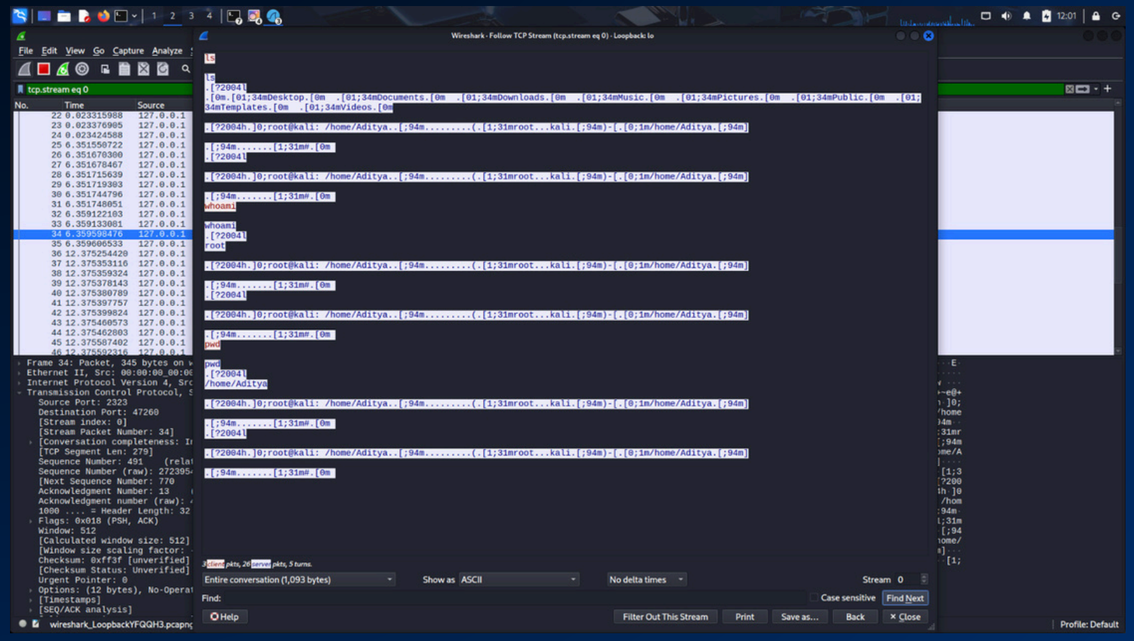
- Packet payload appears unreadable.
- Strong encryption applied.
- Confirms SSH security mechanism.



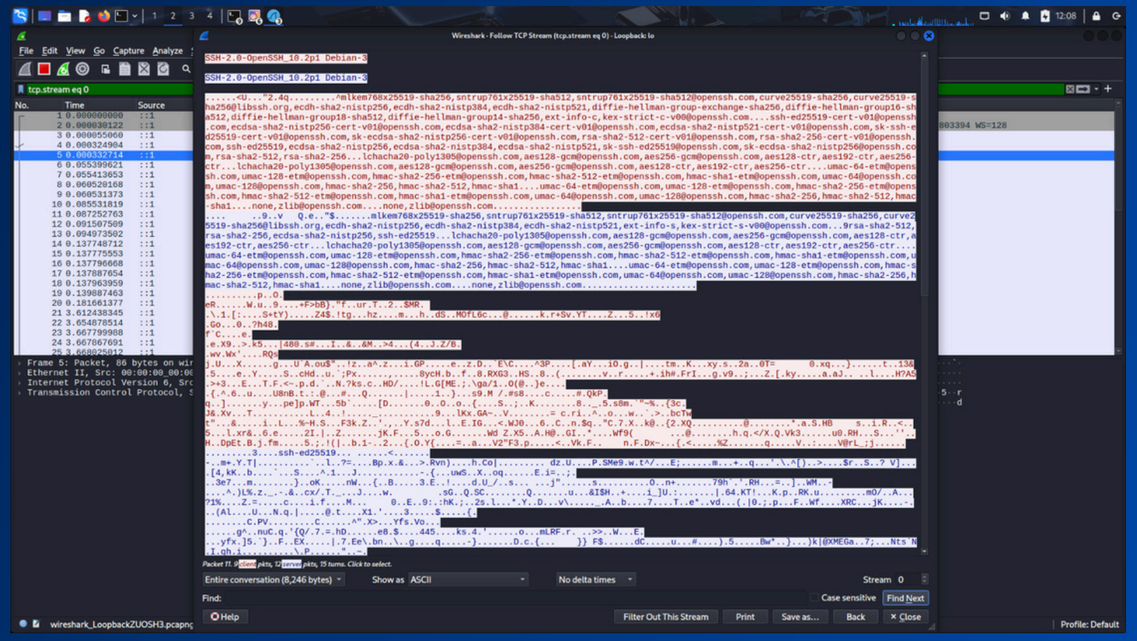
TELNET VS SSH

- Telnet transmits data in plain text.
- SSH encrypts all communication.
- SSH is recommended for secure access.

TELNET



SSH



Think Unlimited

THANK YOU

Secure Your Digital Life Today