061206T4CYB

CYBER SECURITY TECHNICIAN LEVEL 6

SEC/OS/CS/CR/04/6/A

BUILD SECURE NETWORK

Nov/Dec 2024

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT

Time: 1 Hour

INSTRUCTIONS TO CANDIDATE

This assessment requires the candidate to demonstrate competence against unit of competency:

1. Time allocated: **1 Hours.**
2. In this assessment, you will be required to perform **one (1)** practical tasks.
3. Write your name, registration code, date and sign in the practical assessment attendance register.
4. You have **10 minutes** to carefully read through the instructions and to collect the tools /resources required for the tasks.
5. The assessor will record your performance at critical points using audio-visual means.

This paper consists of 1 printed pages

Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing

Task 1

You are tasked with investigating the security of Telnet and SSH protocols within your organization's network. Your goal is to capture and analyze network traffic to demonstrate the differences in how Telnet and SSH transmit data, specifically focusing on data encryption and security.

1. Connect the computer system to the router and access the internet
2. Setup Kali Linux or any other Penetration Testing Operating System
3. install Wireshark.
4. Configure the router to accept SSH connectivity.
5. Identify and establish connection with your target network server.
6. Capture and analyze Traffic on a Telnet Session with Wireshark
7. Capture and analyze Traffic SSH Session with Wireshark
8. Prepare a report summarizing your findings, giving at least two differences between Telnet and SSH in terms of data security and two Risks posed by using Telnet rather than SSH.