**The Great Computer Challenge, 2023**

***Cybersecurity, Level 4***

# Background

## Teams will solve a selection of cyber security problems using their choice of tools. Contestants will be given a Virtual Machine (VM) for the competition. Contestants should install any tools they might need on their computer before the event.

# Guidelines & Requirements

## An Airmon compatible wireless adapter and VMWare Workstation Player are needed. Each team member may have a computer for the cyber security challenge.

## **Internet Access:** Yes. Computer should have Airmon compatible wireless adapter.

## **Helpful tools and skills:** Kali Linux, firewall basics, Microsoft Baseline Security Analyzer, sysinternals tools, bash  scripting, http, ftp, nmap, sqlmap, netcat, wireshark, nikto, ZAP, burp suite, hexeditor, rdesktop. Cyber Security  teams can use the tools listed (or others) on Kali Linux, but to solve the problems, teams will need to know some  windows firewall basics, using MSBA, sysinternals tools, bash scripting. It is also expected that contestants have basic understanding of http and ftp.

# Challenge

## Jeopardy style, web-based competition environments in their courses, letting students demonstrate cybersecurity knowledge in a competitive game.

## **Challenge List**

## CRYPTO, CYBER CONCEPTS, DISCWORLD HAIKUS, EXPLOITATION, FORENSICS, NETWORKING, RECONNAISSANCE, SOFTWARE TOOLS

# Judging Criteria

## Judges will evaluate the answers to problems without considering the tools used. Solutions will be delivered digitally. Solutions will be evaluated on answers to Cybersecurity questions and evidence provided

***Have fun and thanks for participating in the   
Great Computer Challenge, 2023!***