

IVE Information Technology Cybersecurity Centre text transcript

Welcome to Cybersecurity Centre of Vocational Training Council. In response to the huge demand of cybersecurity specialists and professionals in the coming years, the Centre is recently established in Hong Kong Institute of Vocational Education, Chai Wan campus.

Cybersecurity Centre focuses on hands-on approach and equipped with cutting-edge cyber-security training facilities, to facilitate the training need of different types and different levels of vocational training programmes.

The Centre consists of Cyber Range, Security Information Event Management System(SIEM), Traffic Generator, Hyperconverged Infrastructure (HCI), tailor-made purple team training system and malware analysis tools.

Cyberbit Range is a Cyber Security Training and Simulation platform. Students or trainees will experience simulated attacks ranging from ransomware and defacement to evasive worm and multi-stage attacks. Most of the training scenarios are designed according to real world cyber-attacks.

Cybersecurity centre has a four-nodes Nautanix HCI. It has capacity of running around 100 virtual machines at the same time. It is used for learning the basic concept of penetration testing. Servers with different types of vulnerabilities are hosted in the HCI.

This is the Pentesting Lab. It provides real life practical training for students to learn penetration testing and vulnerability assessments in a safe environment. For experienced professionals, they can sharpen their pentesting skills here.

In this lab, the purple team training system is installed. The system is developed by a group of local security researchers.

In malware analysis lab, Different types of malware analysis tools are installed in all the PCs. Students can execute the suspected file in the isolated virtual machine and then by using different types of monitoring tool to observe how the malicious file behaves.

Through the Cybersecurity Centre, we have engagement with commercial partners including Hong Kong Applied Science and Technology Research Institute (ASTRI), Cyber Security and Technology Crime Bureau, RSA, NetApp, UDS, etc. The Centre is the first academy partner of Palo Alto in Hong Kong and also the Cisco Networking Academy.

In addition, we have engaged the public by organizing the Cybersecurity Competition and pre-competition training for secondary students. Here are some souvenirs for the visitors and the participants in the events.

Up coming, the Centre will continue to focus on the mission and train the talent and workforce in cybersecurity area, and in particular to arouse the awareness and nurture a world class security culture.