



cyberange

Realworld Playground for Hackers

How does Cyberange help companies hire skilled candidates?

Cyberange is a virtual platform that simulates real world environment where two or more different teams or individuals race against time to hack, code, design and solve various cyber security challenges across different technical levels.

Every time a candidate solves a challenge, they submit a flag that increases their points and ranking among the participants. Higher points mean the candidate has not only solved maximum challenges but is also highly skilled, qualifying for that next big job!

Finally, when you complete the Cyberange program, you earn the **Professional Level Empanelment** in the prestigious **National Security Database** program, recognized by the Government and Industry for identifying credible workforce in the cyber security domain.

What all skillsets can be tested by Cyberange?

Cyberange has various simulation levels that covers SCADA/PLC Hacking, Smart City Security, Penetration Testing, Reverse Engineering, Web Security, Development skills, Malware analysis and more!



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HACK AND GET YOUR NEXT BIG JOB



@isacindia



/isacindia

SCADA / PLC
HACKING

PENETRATION
TESTING

CODE
CONQUESTS



DEFENDING SMART CITY

FINDING TARGETS AND GATHERING INFORMATION

- Mission 01:** Finding the IP address of the city's Municipal Corporation office.
- Mission 02:** Finding the SCADA master control device controlling Billboards.
- Mission 03:** Finding the NOC center for traffic light and accident relief system
- Mission 04:** Finding the City's Central Fire Alarm Management System
- Mission 05:** Finding the SCADA PLC master control of the DAM Project

NETWORK, PORT RECON AND CCTV HACKING

- Mission 06:** Scanning the network for IP Cams.
- Mission 07:** Gain access to the city's central surveillance system
- Mission 08:** Move the cameras away from the buildings 1,3 and 5

TRAFFIC CONTROLLER LIGHTS AND MANIPULATING SYSTEMS

- Mission 09:** Establish connection to Traffic Controller System
- Mission 10:** Gain access to Modbus Relay Switching Program
- Mission 11:** Manipulate the program to gain access from external network

NETWORK EXPLOITATION AND BANKING SYSTEM

- Mission 12:** Find the gateway to central bank system
- Mission 13:** Gain access to the bank's security system
- Mission 14:** Manipulate the bank's alarm system



The miniature models use real SCADA Systems and Applications that reflect Production / Industrial Critical Infrastructure environments.

SCADA SWITCHING, HACKING RAILWAY NETWORKS

- Mission 15:** Find the Northern Railway Networks system
- Mission 16:** Obtain access to NRN Network
- Mission 17:** Gain access to switching system
- Mission 18:** Switching tracks - controlling Modbus Relay

AUTOMOBILE, WIFI AND HOSPITAL HACKING

- Mission 19:** DDOS'ing alarm systems
- Mission 20:** Hacking ECU causing total vehicle immobilization
- Mission 21:** Taking over Wi-Fi network at the local coffee shop
- Mission 22:** Manipulating medical records of patients admitted in hospital

SECURE POWER GRID AND DEFEND NETWORKS

- Mission 23:** Writing Firewall Rules for city's Power Grid
- Mission 24:** Snort Configuration for detecting attacks
- Mission 25:** SCADA Security for city's power grid
- Mission 26:** Setting Up Honeypots for defending networks
- Mission 27:** Policy Management to minimize risk

FORENSIC OPERATIONS OF SYSTEM AND NETWORK

- Mission 28:** GSM interception and handling PCAP Files
- Mission 29:** Handling file system images
- Mission 30:** Log analysis of attack on a telecom system



Solve over 30 practical missions with other participants (Red Team vs Blue Team) in a time-bound competition to win the Cyberange challenge!