

CYBERIUM ARENA

Trainer



ThinkCyber
Where Knowledge Lives



Router and Firewall

The USG-PRO-4 Enterprise Gateway Router offers Gigabit Ethernet, Advanced Security, Monitoring, and Management and full Integration with UniFi Controller Software for easy and advanced management.



Switch

The fully manageable UniFi Pro PoE 48-Port Gigabit Managed Switch, is designed with Layer 3 advanced protocol support, silent and passively cooled design, A 1.3" touchscreen display for fast troubleshooting and easy to manage using the UniFi Network Controller application.



PowerEdge Server

The R740xd2 with its enormous storage potential using an internal design of two stacked drive trays, each with 12 hot-swap bays. Processing power with dual Xeon Scalable CPUs and 16 DIMM slots supporting up to 512GB of RAM, this server is designed for high scalability and survivability.



UPS

Intelligent power protection, Ideal UPS for servers, routers, switches, hubs and other network devices.

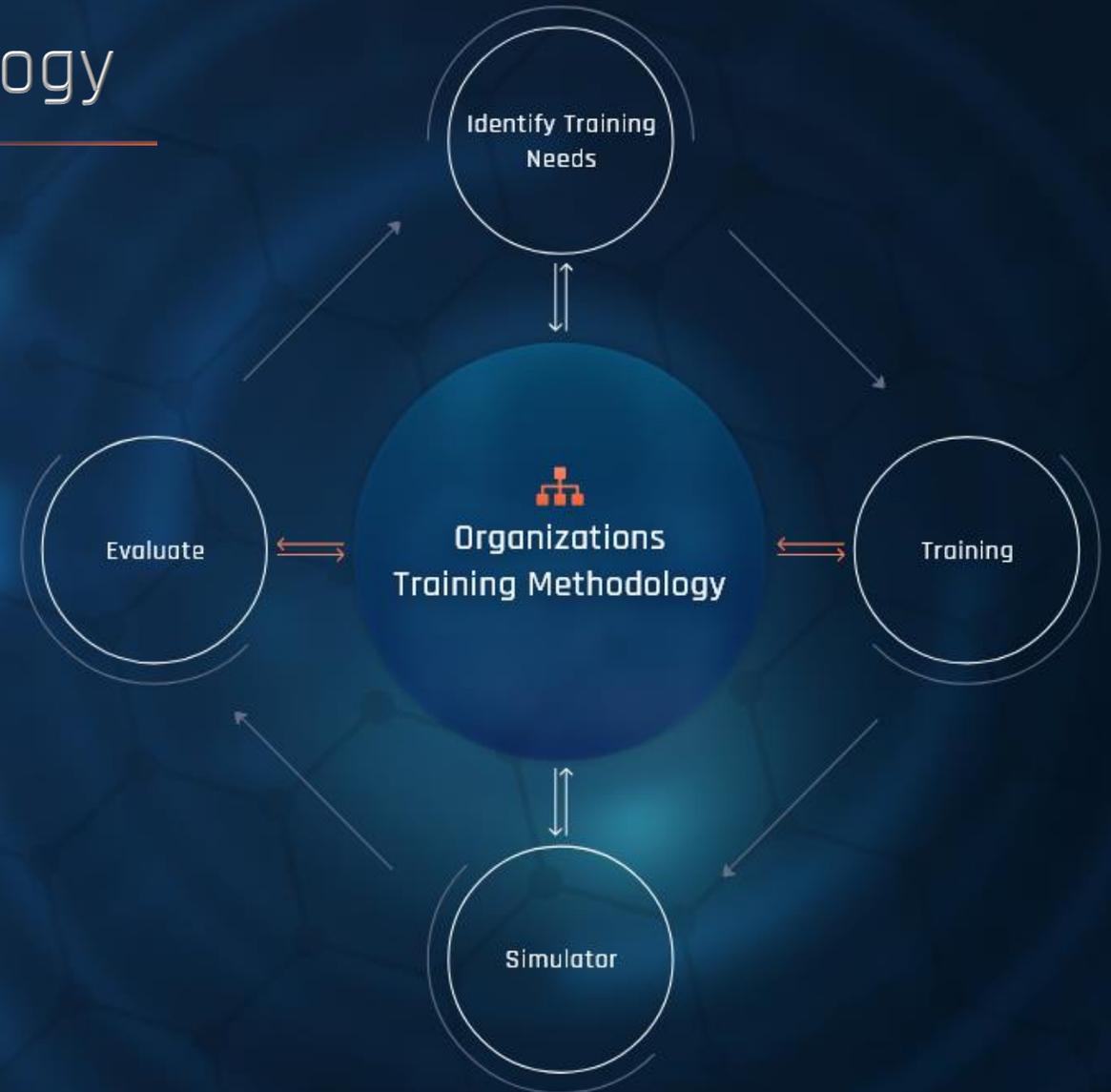


CYBERIUM ARENA Trainer Methodology

The CYBERIUM ARENA Trainer is ThinkCyber's prime training tool for educating the next generation of cyber professionals. It was developed in-house and is a proprietary tool marketed exclusively by ThinkCyber and its international network of agents.

The Trainer is recommended for organizations that are interested in managing and using real-life scenarios in their facilities and with their trainers. The Trainer is designed mainly for finance, law enforcement, critical infrastructures such as railways, electric plants, and telecom industries.

THE ULTIMATE CYBER SECURITY TRAINING TOOL



CYBERIUM ARENA Trainer Architecture



CYBERIUM ARENA Trainer Default Systems



Optional Add-Ons

Anti - Virus



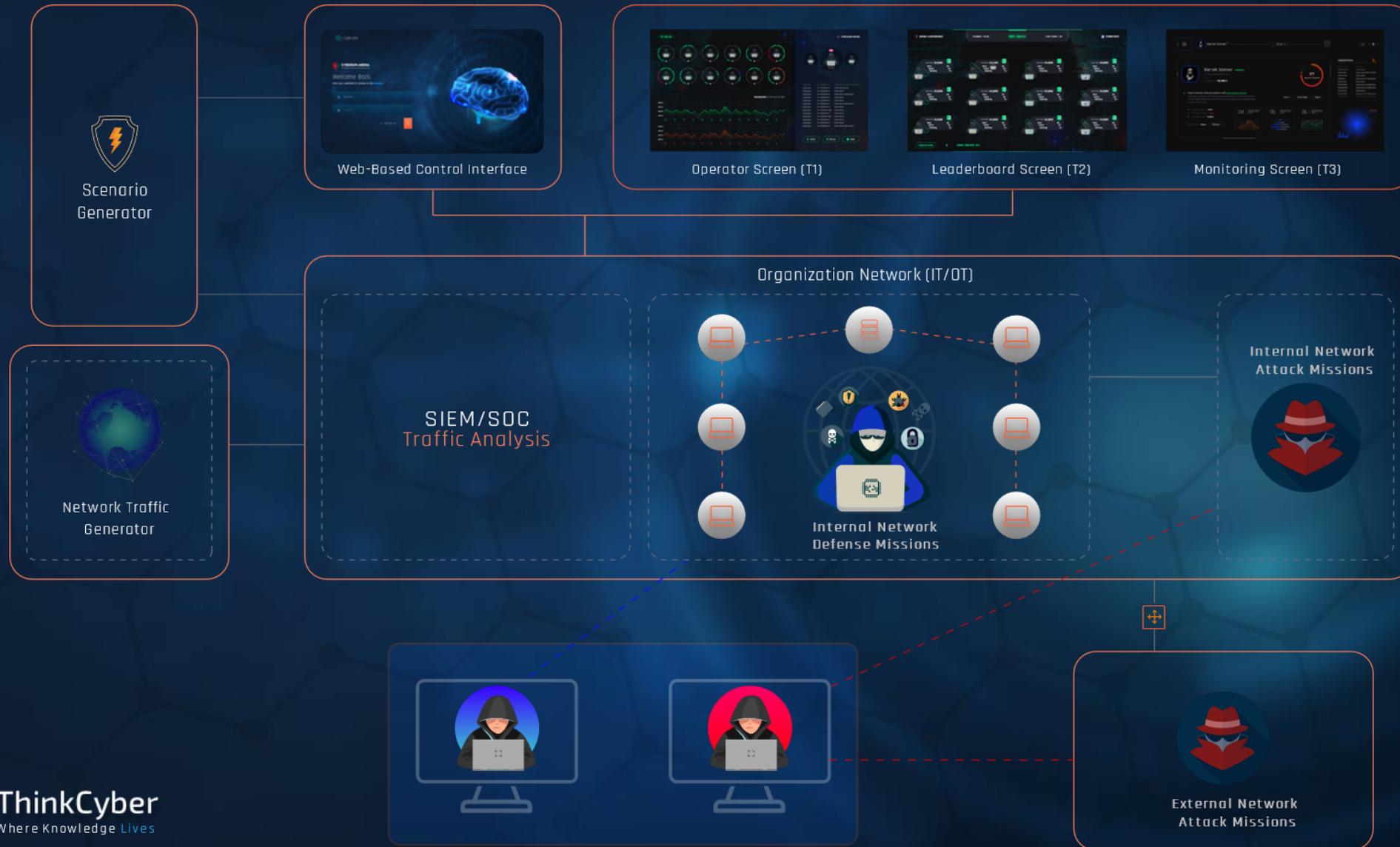
Firewall



SIEM/SOC



CYBERIUM ARENA Trainer Topology



Student Dashboard

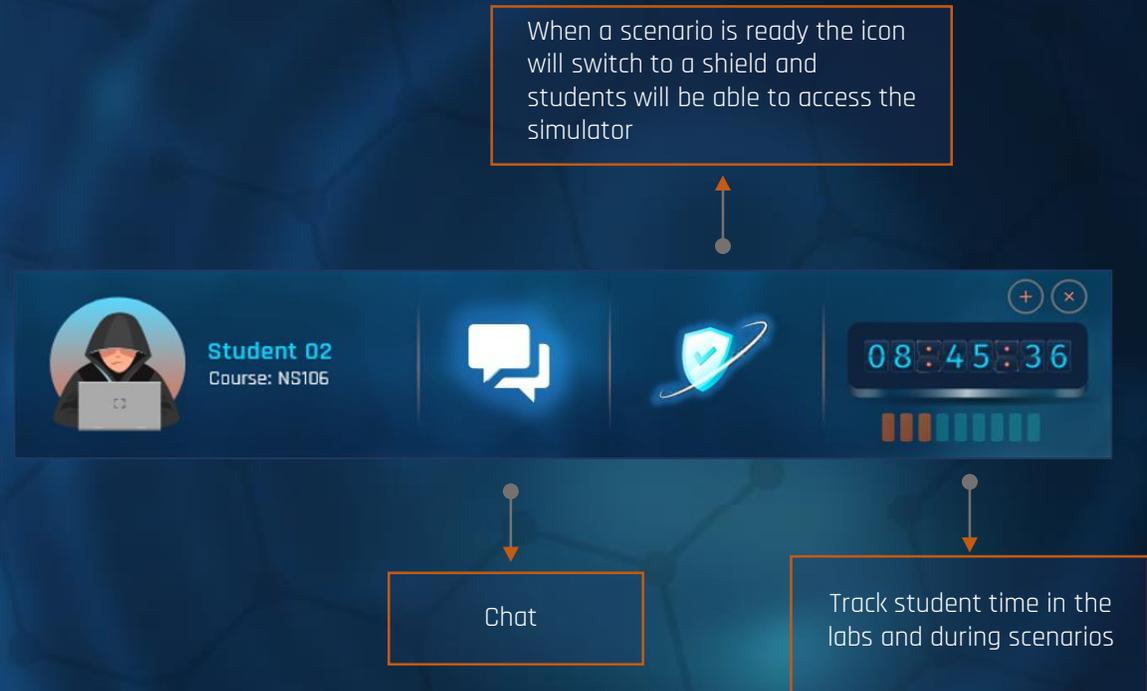


Student Dashboard

The student dashboard was profoundly renovated. Students are now able to access the Trainer at any point throughout the entire training process- the theoretical part, as well as the hands-on (scenarios and labs) part.

The dashboard is a widget displayed on the student's screen when the student logs-in the Trainer. The dashboard allows participants to chat and share information with each other via the Chat icon, which will light up when a new message is received. The lab flask icon enables the student to access class materials and hands-on labs.

Once a scenario is assigned to the student, the lab flask icon will change to a shield icon.



Student Dashboard

Student s25
Unit: CS10520

Chat icon, Lab icon, Course Book icon

Student can view statistics



Course Book

LAB Server: 31.220.48.91

Filter the file 'passwords.lst' and find how many Gmail addresses the file contains.

CYBERIUM ARENA
Trainer

Hands-on training
with Lab servers

Interface and Screens



CYBERIUM ARENA Trainer Interface



CyBrain



CYBERIUM ARENA
The ultimate Cybersecurity Training Tool

Welcome Back,
Enter your credentials to continue to the Simulator.

Username

Password

Remember Me

>

LMS Scenarios Management System

All Scenarios

NS107EN	NS108CN	NS107CN	NS108EN	NS107EDU
SCC001E	SCC001E	SCC001E	SCC001E	SCC001E
SCC002E	SCC002E	SCC002E	SCC002E	SCC002E
SCC003E	SCC003E	SCC003E	SCC003E	SCC003E
SCC004E	SCC004E	SCC004E	SCC004E	SCC004E

LMS Scenarios Management System

Welcome Vadim Levi

Unit: **CYB201020**
Program: **NETWORK RESEARCH**

Code: **NS106** [Enroll a New Program](#)

[Students Information](#) [Courseware](#) [Upload New Labs](#)

Loaded Labs

LABNS106-001	<input type="checkbox"/>
LABNS106-002	<input type="checkbox"/>
LABNS106-003	<input type="checkbox"/>
LABNS106-004	<input type="checkbox"/>
LABNS106-005	<input type="checkbox"/>
LABNS106-006	<input type="checkbox"/>
LABNS106-007	<input type="checkbox"/>
LABNS106-008	<input type="checkbox"/>
LABNS106-009	<input type="checkbox"/>

Scenario running:

Unit - CYB201020
Scenario - NS001
Time Remaining - 1:36:36



CYBERIUM ARENA Trainer Screens



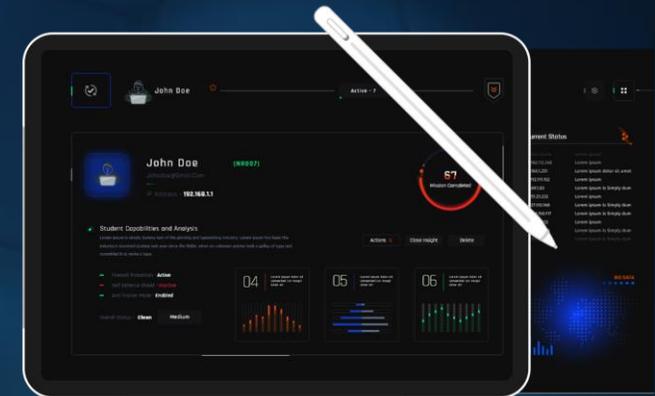
Operator screen (T1)

Shows progress of the class in real-time.



Leaderboard screen (T2)

Calculates all previous scores in real time.



Monitoring screen (T3)

Tablet-based screen. Allows the trainer to view each student's statistics and scores.

Reports and Evaluations



CYBERIUM REPORTS

Group Report



The group report slides display general information, such as the duration of the scenario, the scenario's level of difficulty, the date, and the unit name.

The rest of the slides display the students' scores for each of the missions required to complete the scenario and include the average score for each mission, the top five students, and the distribution of student scores into low, medium, and high levels for the mission.

CYBERIUM REPORTS

Student Report

Student reports display information on each student for each scenario, including the rank of the student within the group, the number of mistakes made, the time taken for each mission compared to the average time for that mission, the total time, the total number of errors, the final score for each scenario, and the student's comparative performance on each mission. The slides following the individual student reports, show the best scores in three categories: the shortest time, a minimum number of errors, and the highest score. Finally, the overall comparison of all students is displayed as well as the top three students.

CYBERIUM
SCADA Infrastructure

Unit - HOSHEM_CTF
Duration - 7.0 Hours
Level Points - 100
16.4.2019

Shortest Time
This is the fastest factor of the Cyber security world. It assesses the performance of the participant and in result it will show the information security personnel examples to look and learn together additional security tasks.

Minimum Errors
The main objective is intended to provide an additional tool for the student to further differentiate between program's activities. There are many ways to the cyber world that require skill to very experience for the student's matters.

Highest Score
The overall grade consists of a combination of time, errors, and difficulty of the task to fully embody the student's abilities.

Student: s8, Rank: 23/50

Total Time: 323 | Strength: | Weakness: | Total Errors: 23 | Final Score: 914

Binary Misconfiguration	OSINT
Linux Administration	Dark Web
Network Analysis	Web Penetration1
Memory Analysis	Web Penetration2
SCADA	Encryption & Reverse
Log Analysis	SCADA1
Memory Analysis1	SCADA2
Memory Analysis2	SCADA3
OSINT	

Student: s38, Rank: 13/50

Total Time: 379 | Strength: | Weakness: | Total Errors: 0 | Final Score: 958

Binary Misconfiguration	OSINT
Linux Administration	Dark Web
Network Analysis	Web Penetration1
Memory Analysis	Web Penetration2
Memory Analysis	Encryption & Reverse
SCADA	SCADA1
Log Analysis	SCADA2
Memory Analysis	SCADA3
OSINT	

Student: s9, Rank: 22/50

Total Time: 314 | Strength: | Weakness: | Total Errors: 41 | Final Score: 921

Binary Misconfiguration	OSINT
Log Analysis	Dark Web
Linux Administration	Web Penetration1
Network Analysis	Web Penetration2
Memory Analysis	Encryption & Reverse
SCADA	SCADA1
Memory Analysis1	SCADA2
Memory Analysis2	SCADA3
OSINT	

Cyberium Areas
CYBERIUM SCADA Infrastructure

Bar chart showing performance metrics for 50 students across various categories.



CYBERIUM REPORTS

Unit Report

The slides of the Unit report display information about the unit itself, such as the total number of students, completed scenarios, the total number of scenarios available, the students ranking in the unit, and the distribution of the missions between defense, offense, and monitoring.

BUILT-IN COURSES



XE

COURSES | SCENARIOS | LABS | TRAINING TIME

5

20

28

160 hours

The XE Basics is the default package installed in the simulator. This package is a great tool for the academic world, allowing students to train on the important topics of the cyber world, including networking and Linux.

This training aims for White-Team training, focusing on monitoring and incident response capabilities.

TIER1 (TRO01)

SIEM/SOC (NS107)

Linux (TRO02)

SIEM/SOC (NS108)

Network Research (NS106)



NX

COURSES | SCENARIOS | LABS | TRAINING TIME

10

50

96

400 hours

The NX Defense package aims to train the Blue-Team, the defenders. The Blue-Team continually attempt to harden security around and within the company's data systems and networks.

This advanced training aims to upgrade cyber teams' knowledge and capabilities. Appropriate for maintaining the professional capabilities of law enforcement and cyber units.

The NX package will be installed in addition to the default package XE.

Network Security (BT208)

Python Forensics (BT215)

OSINT & Threat Intel (BT209)

Cryptography (BT216)

Windows Forensics (BT210)

Malware Analysis (BT220)

Network Forensics (BT211)

Reverse Engineering (BT221)

Penetration Testing (BT212)

Linux Forensics (BT214)



ThinkCyber
Where Knowledge Lives

ZX

COURSES | SCENARIOS | LABS | TRAINING TIME

8

40

82

320 hours

The ZX Offensive package aims to train the Red-Team, the attackers. The Red-Team members are adept at all forms of digital attack, as well as social engineering and other methods to find ways to break into the systems of a company. They let the company feel secure in the knowledge that nothing was held back in the testing.

This advanced training aims to upgrade cyber teams' knowledge and capabilities. Appropriate for maintaining the professional capabilities of law enforcement and cyber units.

The ZX package will be installed in addition to the default package XE.

Cyber Warfare (RT420)

Windows Exploitation (RT424)

Offensive Python (RT421)

IoT Exploitation (RT430)

WebApp Security (RT422)

Exploit Development (RT433)

WebApp Security (RT423)

Exploit Development (RT434)



HYBRID

COURSES | **SCENARIOS** | **LABS** | **TRAINING TIME**
3 | 20 | 20 | 100 hours

The HYBRID ICS package aims to train the suitable for ICS/SCADA teams that wish to incorporate physical models into cyber training. The system may seem safe, but it is still penetrable. One should truly understand how to penetrate, in order to find out effective ways to defend.

ICS/SCADA system controls are most of the critical infrastructures today – such as trains, power plants, electricity, etc.

The HYBRID package will be installed in addition to the default package XE.

ICS PenTesting (RT431)

Intro to ICS/SCADA (BT222)

ICS Forensics (BT223)



Cybersecurity Roles

Cybersecurity Specialist ★

NS106	BT208	RT420
BT212	NS108	NS107

Penetration Tester ★★

RT421	RT422	RT423	RT424
RT430			

Cyber Crime Investigator ★

NS106	BT211	RT420
BT208	BT215	BT220
BT210	BT221	

CyberSecurity Consultant ★★

NS107	NS108	BT209	RT420
BT212			

Incident Responder (IR) ★

NS106	BT208	RT420
BT210	BT211	NS108
NS107		

CyberSecurity Analyst ★★

BT209	BT215	BT216	BT220
BT221	RT421		

BT211
BT215
BT216
BT222
RT422
RT423

Cybersecurity Engineer ★★★

BT209	BT220	RT420
BT221		

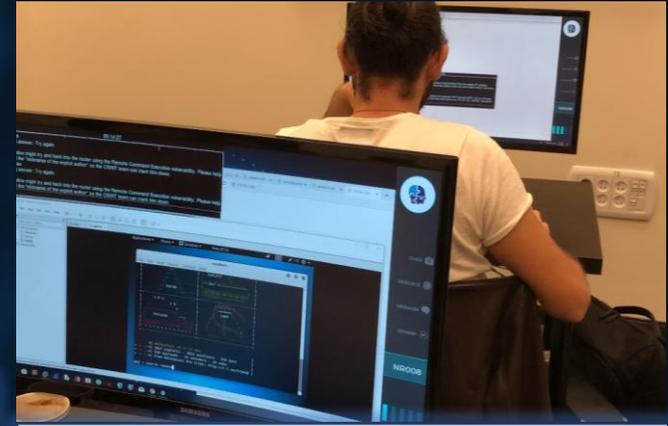
Cybersecurity Architect ★★★

BT210

Trainer GALLERY



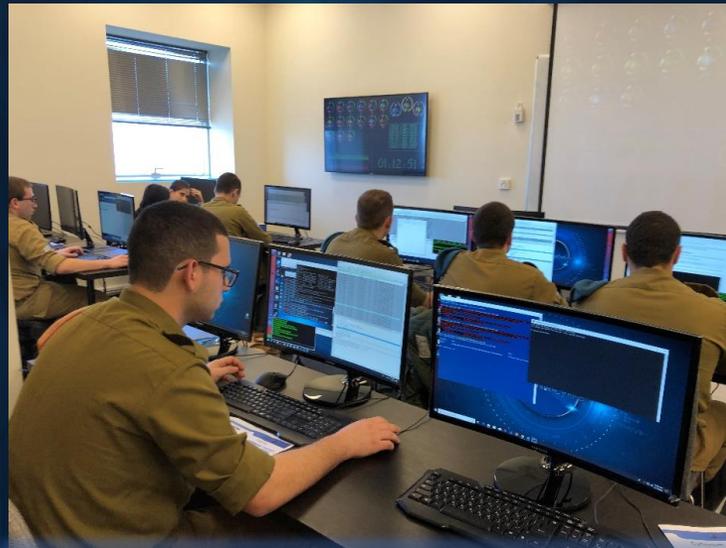
Microsoft's developers training, where students log on to the simulator to assess their capabilities.



Students using the simulator to prepare for real-time threats.



Visitors worldwide coming to see the CYBERIUM ARENA capabilities integrated with physical devices for defense and attack training programs.



IDF special forces conducting training using the simulator. Different units use the simulator to evaluate their soldiers' capabilities using the CYBERIUM ARENA database and reports.



The simulator is a unique platform allowing the management level, commanders included, to be on-top of their human power, understanding in real-time the weaknesses and strengths of each participant.

CYBERIUM ARENA Around The World



- Government
- Military
- Police
- Corporate
- Academic