

# Field Effect Cyber Range<sup>®</sup>

Shape the next generation of cybersecurity talent with **Cyber Range.**

The ongoing demand for cybersecurity talent gives universities and colleges a tremendous opportunity.

Meeting that demand means many higher education institutions need to expand the capacity of their cybersecurity programs with specialized technology, additional content, and hands-on experience for students.

That's where Field Effect Cyber Range<sup>®</sup> comes in. Cyber Range lets you scale your cyber education program quickly and easily with prebuilt virtual labs, powerful automation, and fully customizable content. Cyber Range does the heavy lifting so you can focus on delivering hands-on experiential learning.



**Test, train, and evaluate students in realistic conditions, providing the experiential learning they need for a [career in cybersecurity](#).**

#### **Hands-on training for every need**

From traditional lab-style courses with objectives and red vs. blue team games to complex CTF and capstone scenarios, it's never been easier to deliver truly experiential learning for students.

#### **Pre-built courses and custom content**

Access a library of courses based on relevant incidents and forensics, from introductory-level essentials to capstone projects. Introduce challenges like malware or threat events as needed to increase the realism. Our content authors can also work with you to make the custom courses you need.

#### **Preconfigured virtual machines**

Deploying content is a breeze with preconfigured virtual machines. There's no need for messy library maintenance or time-consuming maintenance and reconfiguration—a new course is only a click away.

# Cyber Range Features

Powerful  
cybersecurity  
education  
and simulation  
made simple.

- ✓ **Repeatable training environments**  
Stand up, tear down, and even rescale virtual environments on the fly in minutes with no need to reconfigure devices or clean up after previous trainings. Reuse training quickly and efficiently.
- ✓ **Fast, flexible deployment**  
Deploy Cyber Range on-prem with your own hardware or set up a dedicated instance on Field Effect's private cloud—both with as many users as you need.
- ✓ **Dynamic, adaptive courses**  
Maintain your school's academic integrity. Cyber Range uses dynamic elements to keep courses fresh, letting you create, update, and reuse content to ensure no two tests, exercises, or scenarios are exactly alike.
- ✓ **Simulate real-world conditions**  
Create, deploy, and run highly detailed virtual environments for training based on real-world events. Simulate networks of any size or complexity and generate network traffic and activity using our HALO (Human Actor-Like Orchestration) feature.
- ✓ **Virtual direction**  
Incorporate instructor direction with the ability to view, monitor, and interact with classrooms, exercises, and training virtually.
- ✓ **Advanced evaluation metrics and reporting**  
Measure, track, and report on progress and results with user-friendly metrics and measurement tools. Know who uses hints, how many incorrect answers were given and how long each user took to complete the assignment.
- ✓ **Remote learning made easy**  
With Cyber Range, no student gets left behind. Students can access instructor-led or self-directed courses at any time, from anywhere. All they need is a secure browser and an internet connection.

# The Cyber Range


## Syllabus

Get a quick look at some of the [ready-to-serve](#) courses and content you can deploy for your students.

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01.	<b>Foundational Courses</b>	<ul style="list-style-type: none"><li>▪ Introduction to Cybersecurity Concepts</li><li>▪ Introduction to Software Development Processes and Tools</li></ul>
02.	<b>Operating Systems</b>	<ul style="list-style-type: none"><li>▪ Linux Administration</li><li>▪ Windows Administration</li><li>▪ Common Operating System Misconfigurations.</li></ul>
03.	<b>Forensics</b>	<ul style="list-style-type: none"><li>▪ Introduction to Malware Analysis and File Forensics</li><li>▪ Yara Basics</li><li>▪ Malicious Document and Stage 1 Malware Analysis</li><li>▪ Windows Event Log Analysis</li><li>▪ Analyzing Malicious Activity with Sysmon</li></ul>
04.	<b>Network Traffic Capture and Analysis</b>	<ul style="list-style-type: none"><li>▪ Introduction to Packet Capture</li><li>▪ Packet Capture Filtering</li><li>▪ Packet Capture Characterization</li><li>▪ Automated Protocol Analysis using Python</li><li>▪ Signature based Detection using Snort</li><li>▪ Anomaly-Based Detection</li></ul>
05.	<b>Scripting</b>	<ul style="list-style-type: none"><li>▪ PowerShell Automation</li><li>▪ Automation using Python Scripting</li><li>▪ Bash Scripting</li></ul>
06.	<b>Log Analysis</b>	<ul style="list-style-type: none"><li>▪ Log Analysis using ELK</li><li>▪ Log Analysis using Python</li></ul>

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## Ensure your students make the grade with Cyber Range.

Designed by some of the top cybersecurity analysts on the planet, Field Effect Cyber Range provides a realistic training environment to develop and test skills. With quick, flexible deployment for remote or on-prem users and our analyst-built content library, you can focus on developing the next generation of cyber talent.



## About Field Effect

Field Effect believes that businesses of all sizes deserve powerful cybersecurity solutions to protect them.

Our threat monitoring, detection, and response platform, along with our training and compliance products and services are the result of years of research and development by the brightest talents in the cybersecurity industry. Our solutions are purpose-built for SMBs and deliver sophisticated, easy-to-use and manage technology with actionable insights to keep you safe from cyber threats.

## Contact our team today.

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