

# Simulation and Training

Cyber Range - a rich simulation and training environment for security professionals

## ABOUT FIELD EFFECT SOFTWARE

Field Effect Software is headquartered at Lansdowne Park in Ottawa, Canada. Our mission is to strengthen the IT security operations of large enterprises and small to medium sized businesses alike. We are leaders in the development of network application solutions, low level systems development, and cyber security analytics. Our solutions are trusted by major organizations worldwide and our team is a unique mix of deeply skilled security professionals, software developers and analysts with a passion for improving security.

## WHAT IS CYBER RANGE?

Cyber Range is a powerful simulation and training platform that makes it fast and easy to design and run simulated network environments, complete with dynamic elements and events, advanced metrics and monitoring, as well as interactive controls that allow you to shape the environment live. Cyber Range is ideal for:

- » **Training.** Create and deliver realistic, engaging and highly interactive training for groups or individuals. Build it once and reuse it - share assets like preconfigured networks, files, even entire courses or use those that come with Cyber Range. Stand up, tear down, even rescale training environments on the fly in minutes with no need to reconfigure devices or clean up artifacts from previous students. Measure results and offer your clients reporting on their investment in training by tracking and reporting on student progress.
- » **Simulation.** Rapidly create, deploy and run richly detailed simulated environments that behave realistically. Simulate networks of any size or complexity to perform tests, evaluate designs and assess procedures like disaster recovery or security incident response in a safe, repeatable environment.

## Safe, Repeatable, Reliable

Not all simulation environments are created equally and we know how important it is to get a reliable environment up and running quickly. Speed and ease of use are core design principles. Under the hood, Cyber Range has all of the power and features needed to satisfy even the most demanding technical users.

Trainers and course designers will find the tools they need to build and deliver immersive courses complete with dynamic content that reacts to student actions - all controllable in real time. Best of all, courses are easily updated and can be reused over and over.

Like a great laboratory or classroom, Cyber Range is feature rich, easy to use and the perfect environment in which to learn. For cyber security professionals it is a powerful platform that speeds workflow and gets you to results faster.

*“ For the things we have to learn before we can do them, we learn by doing them.”*

Aristotle

## HOW CYBER RANGE WORKS

Cyber Range leverages industry-leading virtualization technologies and Field Effect Software's expertise in cyber security, training and system development to provide a highly reliable, responsive and flexible core platform. The user interface and workspace are designed for ease and speed of use but are loaded with advanced features to satisfy even the most demanding of power users and the needs of complex, interactive simulations.

The Cyber Range workspace makes it easy to design a network, or several interconnected networks using a catalogue of common, and not so common, device images. Users can also create and import their own images or tweak those built-in exactly as needed. Easily create and incorporate interactions and events that can be triggered automatically or by users. Inject changes live into a simulation or course making the environment as realistic and immersive as possible. Students and simulation users will enjoy the same ease of use and feature-rich experience.

Unlike other ranges out there, Cyber Range is easily scalable and has been built to keep up with the fast-paced world of cyber security. Cyber Range gives you the flexibility and fluidity to adapt without compromising power or features. Not only is content portable, but Cyber Range is too and the platform is available online or as a stand-alone enterprise solution, making it perfect for organizations of all sizes, as well as professional trainers looking for a platform to take their product offerings to the next level.

## WHY CYBER RANGE?

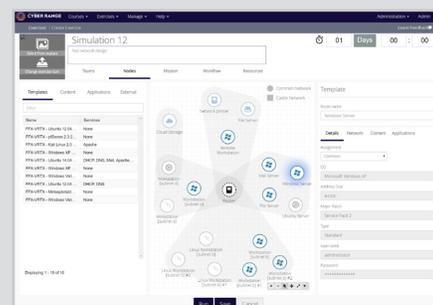
- » **Simplicity.** Manage one platform rather than many for simulations, testing and training. Reuse resources and ensure easy repeatability of simulations and courses.
- » **Scalable, Flexible, Fluid.** Real world experience in less time. Cyber security is constantly evolving - few fields are as dynamic, and your training and simulation platform must reflect this. Cyber Range has been built, and is used by our teams of security experts who face these challenges every day and demand their tools keep pace.
- » **Integration and Extensibility.** Like all of our products, Cyber Range has been built knowing it is a part of a larger picture. APIs and SDKs are available making it easy to extend Cyber Range however you need and integrate it with other systems. Push data from Field Effect Software's Covalence platform directly to Cyber Range to create a simulation based on real world data, or connect to HR systems to track employee learning.

## Cyber Range in action

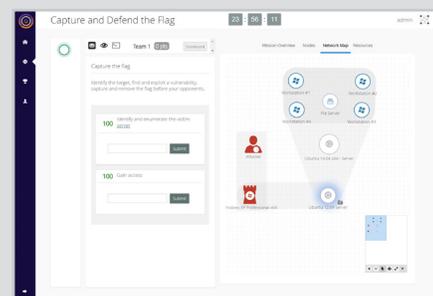
One easy-to-use platform for realistic simulations and highly immersive course design and delivery.



**Figure 1: Course View - live view of the environment running, activity tracking, scoring, etc.**



**Figure 2: Workspace - intuitive, drag & drop use plus power to create & control detail as deeply as needed**



**Figure 3: Student View - Tailored information plus interactive controls & metrics**

**Want to learn more  
about Cyber Range?**

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