



# Service Definition

## Cloud Security Exercise

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# 1. Service Definition

## 1.1. Overview of the Hybrid Cyber Security Exercise

The Hybrid Cyber Security Exercise merges rigorous technical training with strategic tabletop decision-making, creating a dynamic, dual-track training environment. Participants engage in realistic cyberattack simulations that directly impact tabletop strategy scenarios and vice versa.

This integration fosters deep understanding and agile responses to complex cyber threats, aligning technical actions with overarching management strategies. Ideal for organizations seeking to bridge the gap between technical teams and decision-makers, this exercise enhances preparedness and cohesive action in real-time cyber crisis situations.

## 1.2. Key Components of the Exercise

The Hybrid Cyber Security Exercise is designed with key components that effectively blend technical cybersecurity challenges with strategic decision-making exercises.

- **Dual-Track Simulation:** Seamlessly integrates technical cyber defense tasks with strategic decision-making.
- **Interactive Scenario Design:** Encourages active participation in evolving cyber crisis situations.
- **Real-Time Decision Impact:** Actions in one track immediately affect outcomes in the other.
- **Strategic Response Planning:** Participants develop and implement strategies based on technical feedback.
- **Integrated Communication Practice:** Facilitates effective communication between technical and strategic teams.
- **Adaptive Scenario Complexity:** Adjusts the complexity based on participant feedback and learning objectives.

## 1.3. Cyber Range Platform

CybExer's awarded Cyber Range Platform provides a realistic backdrop for the exercises, enabling:

- **Scenario Customization:** Tailoring environments to organizational threat landscapes.
- **Advanced Monitoring Tools:** For in-depth analysis and real-time feedback.
- **Secure Training Environment:** Allowing for risk-free simulations of severe cyber threats.

CybExer's Cyber Range Platform is a state-of-the-art virtual environment that supports the delivery of Blue Team Exercises. It is a comprehensive system that includes several key components:

- **vLab Manager (vLM):** A proprietary software offering intelligent automation for cyber ranges. It manages the deployment and orchestration of diverse game scenarios, providing realistic environments for exercises and training. vLM supports fast scalability and configuration of game networks, including integration of various technical equipment like office networks, industrial OT, SCADA systems, and even physical machines.
- **Integrated Scoring and Awareness (ISA):** An award-winning software for situational awareness and participant scoring in cyber exercises. ISA uses advanced visualization techniques and data capture to provide detailed insights into cyber exercises. It ensures exercises are transparent and easy to follow, displaying real-time data on system attacks, adversary movements, and defender performance.
- **VLM-UP:** A component that allows trainees to access virtual machine consoles for operations like reverting to snapshots, resetting, powering on, etc. It enhances the hands-on experience by providing practical control over virtual environments, integral for realistic cyber exercises.

These components collectively form the backbone of the scalable Cyber Range Platform, ensuring a comprehensive, realistic, and effective training experience in the exercises.

## 1.4. Delivery Model

The delivery model for the Hybrid Cyber Security Exercise ensures participants receive a balanced, immersive training experience that stimulates both their technical abilities and strategic thinking.

1. **Exercise Preparations:** This phase involves meticulous planning and setup. It includes defining objectives, customizing scenarios in the Cyber Range Platform, and preparing participants and systems for the exercise.
2. **Exercise Delivery:** The core phase where the live fire exercise is conducted. Participants engage in realistic cyber warfare scenarios, utilizing the Cyber Range Platform's advanced features for a hands-on cybersecurity experience.
3. **Post-Exercise Delivery:** Following the exercise, a detailed debriefing is conducted. This includes providing insights, analyzing participant performance, and offering feedback. The goal is to highlight learning outcomes, identify areas for improvement, and reinforce key cybersecurity concepts.

Each phase is critical to the success of the exercise, offering a complete, one-off engagement that is tailored to the specific needs and objectives of the customer.

## Annex 1 – Company Overview

CybExer Technologies provides comprehensive cyber security training solutions to increase organizational cyber resilience. Our platform offers a range of advanced cyber security training modules designed to enhance the cyber capabilities of organizations. With our cutting-edge cyber range, organizations can conduct highly realistic live-fire exercises that simulate real-world cyber-attacks. This allows cyber security and IT teams to identify and mitigate vulnerabilities, thereby improving their prevention and response strategies.

Our platform offers a versatile training experience that includes capture-the-flag exercises and actionable skill-testing modules, where trainees engage in active testing rather than just answering right-wrong questionnaires. Additionally, our controlled environment evaluations of solutions offer a safe and effective way to test and evaluate cyber security solutions.



EXERCISE  
MANAGEMENT TEAM  
HAS EXPERIENCE  
FROM MANAGING  
SOME OF THE  
LARGEST AND MOST  
SOPHISTICATED  
CYBER EXERCISES  
IN THE WORLD.  
ALSO THE TEAM  
HAS EXPERIENCE IN  
RESPONDING TO REAL-  
LIFE CYBER ATTACKS.



OUR PROPRIETARY  
ISA SCORING AND  
VISUALISATION TOOL  
PROVIDES INSTANT  
AND UNDERSTANDABLE  
FEEDBACK OF THE  
EXERCISE EVENTS. LIVE  
UPDATES OF ATTACKS  
AGAINST BLUE TEAMS,  
INSTANT SCORING,  
TIMELINE VIEW,  
INDIVIDUAL ANALYTICS  
AND EXECUTIVE BRIEFING  
VIEW AVAILABLE.



EXPERIENCED RED  
TEAM CONDUCTS  
LIVE ATTACKS AT  
HIGH LEVEL OF  
SOPHISTICATION. RED  
TEAM IS DIVIDED INTO  
FOUR SUB-TEAMS:  
WEB, NETWORK,  
CLIENT-SIDE AND  
SPECIAL SYSTEMS.

Our track record includes assisting hundreds of organizations across 49 countries and hosting some of the largest multinational cybersecurity events. Our cyber range visualization and situational awareness solution has been recognized with the prestigious NATO Defence Innovation Award for its industry-leading capabilities.

Our dedication to excellence and commitment to providing top-notch cybersecurity solutions have made us a trusted partner for organizations that prioritize cybersecurity. Whether you are a government agency, an academic institution, or a corporation, we have the expertise to help you identify vulnerabilities and improve your prevention and response strategies, making your organization more secure and resilient against cyber threats.



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