Learn By Doing on Gamified Cyber Ranges

Cyber ranges are virtual environments used for testing and training computer and network security professionals. Today, academic and corporate environments use cyber ranges in order to effectively prepare the next generation of cybersecurity professionals. However, few understand that the training provided by cyber ranges can be gamified, allowing policies and procedures to be more easily understood and that can be achieved with gamified cyber ranges.

STUDENT BENEFITS of GAMIFIED CYBER RANGES

- PERFORMANCE-BASED LEARNING
- SKILLS ASSESSMENT
- ADVANCED SIMULATION
- REAL-TIME FEEDBACK
- SIMULATE ON-PAY-JOB EXPERIENCE
- TEST NEW APPROACHES

TYPES OF CYBER RANGES

INFRASTRUCTURE ONLY
- For pre-programs or training curriculum available.

LIMITED CONTENT
- For limited curriculum, not regularly updated to stay current.

FIXED ENVIRONMENTS
- Don't cover all much-cited requirements of today's cyber professionals.

GAMIFIED CYBER RANGES DELIVER...

RELEVANT CONTENT
- Gamification provides a platform that matches curriculum & learning outcomes.

RICH COMBAT CENTER
- Equipment engagement with supporting materials for holistic learning.

ENGAGING MMORPG-GAMES
- Engaging MMORPG-Games enable repetitive, increasing cognitive retention.

INTRADE SKILL-BUILDING
- Virtualized network environments offer in-depth, real-time practice of work roles.

TEAM COLLABORATION
- Gamification for complex challenges with collaboration and demonstration of teamwork.

ASSESSMENT PATHWAYS
- More quantitative measures for adequate skills preparation for graduates.

TRAJECORY MAPS
- Monitor player performance and progressions to adapt to real learning styles.

WHY LEARN ON GAMIFIED CYBER RANGES?

- Apply learning to authentic challenges in real-time scenarios.
- Support the development of personal beliefs.
- Learn how real-world experience is really like.
- Gamified cyber ranges are hyper scalable in the cloud, helping learners engage with the limits of cyber scenarios that they would encounter in the workplace.

PROJECT AREAS®

Azure

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L E A R N H O W E A S Y P R O J E C T A R E S CAN SUPPORT STUDENT LEARNING

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MEET THE BUILDERS:

1. ROBERT BONILLA - PEDRO RODRIGUEZ
   - A combination of technical expertise and passion for education.

2. MEGAN SCHRADER - KELLY RAY
   - Collaborative learning experiences that inspire the next generation.

3. NICOLE MERSERAY - RYAN MARSHALL
   - Innovative solutions that bridge the gap between theory and practice.

4. WILLIAM HICKS - JASON SMITH
   - Real-world experience in leading-edge cybersecurity environments.