

Practical Cyber Security Training Exercises

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Abstract—There is a shortage of skilled cyber security professionals. Hands-on learning engages students and provides them with an opportunity to gain knowledge and improve their problem-solving skills. We developed hands-on training laboratory exercises that help students to better understand topics in the cyber security field by applying them in controlled virtual environments. The trainings are designed to be practiced in a consistent virtual environment and modularized in a way that allows students to practice specific parts of the exercises based on their level of educational background. The material that is presented in each training exercise focuses more on the methodologies to put cyber security concepts into practice including tools and best practices for better success rate. By performing digital forensics, penetration testing, social engineering, and other ethical hacking attacks, students can have a good perspective into the mind of attackers.

Keywords—Hands-on exercises, virtualization, cyber attacks, ethical hacking, digital forensics

I. INTRODUCTION

The laboratory exercises that we have developed are carried out within a controlled virtual environment which university students will set up themselves. All the laboratory exercises start with an installation guidance for setting up the virtual machine operating systems and settings. Some of the cyber attacks that are covered in the laboratory exercises trace back to vulnerabilities in the operating systems and settings, allowing students to have the whole picture when it comes to finding defense techniques for attacks.

Our laboratory exercises are designed to be practiced by students with a good theoretical understanding of cyber security topics. Although cyber security and networking concepts are briefly explained in each laboratory exercise, it is preferable if students have some background knowledge in the topics. These laboratory exercises will help in giving the students a more practical view of the topics with which they are familiar. All the exercises start from installation and will go through all the steps in detail so that students from different backgrounds and at different levels would not have any problems going through it. Students need to have basic skills to be able to follow instructions for installing software and executing commands. Furthermore, some laboratory exercises will require an understanding of networking concepts in order to comprehend methodologies and interpret results. Cyber security solutions require security professionals with a deep understanding and practical experience [4]. The best way to help students gain practical experience in the classroom setting is to provide them

with challenging practical, real-world cyber security simulations in the form of tutorial laboratory exercises.

Replicating real-world scenarios in cyber security is a big challenge as there is a constant change in the cyber security infrastructure. In addition, setting up the environment for practice exercises in a contained environment is very essential for cyber security [5]. Studies conducted on students to evaluate their satisfaction and the content they learned from virtual cyber security laboratory exercises shows how effective these exercises were for learning this science [8].

A. Related Work

The National Cyber League (NCL) ethical hacking exercises cover a vast range of topics using practical exercises. These exercises often pair topics with a tool, for instance “Backdooring with Netcat”. Each exercise has a diagram of the virtual network’s topology to help students visualize with what they are working. The NCL exercises mostly use Kali Linux operating system and include thorough, step-by-step instructions accompanied by screenshots [1]. The instructions are designed with very little explanation and include more of what to do so that beginners do not get frustrated if they do not understand the explanations [1]. This allows beginners to successfully complete the exercises without worrying too much about the theoretical aspects of the topic. This approach is risky because some students may not have a good understanding of what they did in the exercise although they completed it successfully. There needs to be more emphasis on the concept of the exercise before rushing through the instructions. After all, the whole aim behind the exercise tutorial is to help students get a more profound understanding of cyber security concepts.

CERES NetSec provides hands-on network security tutorials with aim of reducing the current workforce cyber security skills gap [2]. These network security exercises include topics like Encryption, Firewall management, Network Fire-walls, Nmap and NetCat, WireShark, Vulnerability scanning and Virtual Networks all are available free of charge. These exercises are full-length description designed for a 2-hour instructor guided laboratory session. To use CERES NetSec exercises, instructors must deploy the needed hands-on environment within an isolated computing laboratory of their choice [2].

Security Education (SEED) exercises propose a general laboratory environment and a comprehensive list of laboratory activities that are essential to security education [3]. SEED exercises are designed to be used in different courses such as Internet Security, Computer Security, and Introduction to Computer Security. These exercises are specially intended to be

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troubleshooting of vrv system non wsq daikin - Apr 15 2023

web this unit emphasize on the diagnosing and fault rectification of the vrv system fault rectification methods includes using error codes and functional test of selected components topics overview of system errors codes inspection methods for components usage of self diagnostic function field settings using remote controller outdoor pcb

daikin vrv4 monitoring function and field setting check error - Aug 19 2023

web when the latest error codes were reset by accident on an indoor unit user interface they can be checked again through this monitoring settings detailed information about error code can be