# ITAS363Unit 2 Lab

## Introduction

LabSim Security Pro is used to provide a simulated, hands-on laboratory for the purposes of learning about important security concepts. In an online environment it is impossible for students to work directly with security mechanisms in administrative scenarios. Therefore, LabSim is the tool that supports students in their pursuit to understand difficult concepts in an online environment.

Use of LabSim Security Pro requires a one-time registration process. You should have received an activation code from the bookstore (Words of Wisdom). Notify the bookstore immediately if you have not yet received your activation code. Contact them at aiuonlinebooks@wordsofwisdombooks.com.

Instructions for accessing LabSim can be found in the Course Materials section. You can also contact your instructor with any questions. You will have access to Security Pro for 36 months (3 years) from the date of registration.

Note that LabSim Security Pro is aligned with CompTIA’s Security+ certification. CompTIA suggests that individuals pursuing certification in this area have approximately two years of experience in IT administration with Security focus. Completing this lab will not qualify you to complete the exam. One must complete several courses in order to cover all the concepts included in the certification exam. Further, completing the coursework does not conclude with automatic certification. Those students who wish to pursue certification may do so outside the classroom. For those students that qualify, they may contact the Registrar’s office for receipt of a discounted certification voucher honored by CompTIA.

LabSim Security Pro is aligned with (ISC)2 SCCP (Systems Security Certified Practitioner )certification exam. Completing this lab will not qualify you to complete the exam. One must complete several courses in order to cover all the concepts included in the certification exam. Further, completing the coursework does not conclude with automatic certification. Those students who wish to pursue certification may do so outside the classroom.

***Hardware Requirements***: Refer [here](http://www.testout.com/home/support/quick-start-guides/system-requirements) to verify that you meet the necessary Hardware Requirements. Note that you will need speakers.

***Expected Time for Completion*: Two and a half (2.5) hours or more depending on time necessary to familiarize yourself with tool**. You may complete the tasks in numerous iterations. You do not need to complete all the lab tasks in one sitting.

## Lab Description

Upon completion, you will:

* Configure application control software
* Compare and contrast types of attacks
* Harden a switch
* Secure access to a switch
* Configure VLANs from the CLI
* Configure VLANs
* Restrict Telnet and SSH access
* Permit traffic
* Block source hosts

## Lab Tasks

Each Module contains numerous Sections. The last section in each Module is a Practice Exam. The Practice Exam is **not** required. Taking the Practice Exam is **optional**. The results of the Practice Exam do **not** impact your course grade one way or the other.

All Module Sections (excluding the last Section – Practice Exam) are required unless otherwise designated.

### Module 6.0 Network

Section 6.3 Network Applications

Section 6.4 Switch Attacks

Section 6.5 Switch Security

Section 6.6 Using VLANs

Section 6.7 Router Security

The above Sections include a number of hands-on activities. Be sure to complete them.