

# User Guide

## Virtual Security Lab

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History	Who	Version	When
Creation	AGGS3/SM861	1.0	19/08/2015

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# 1 - Introduction

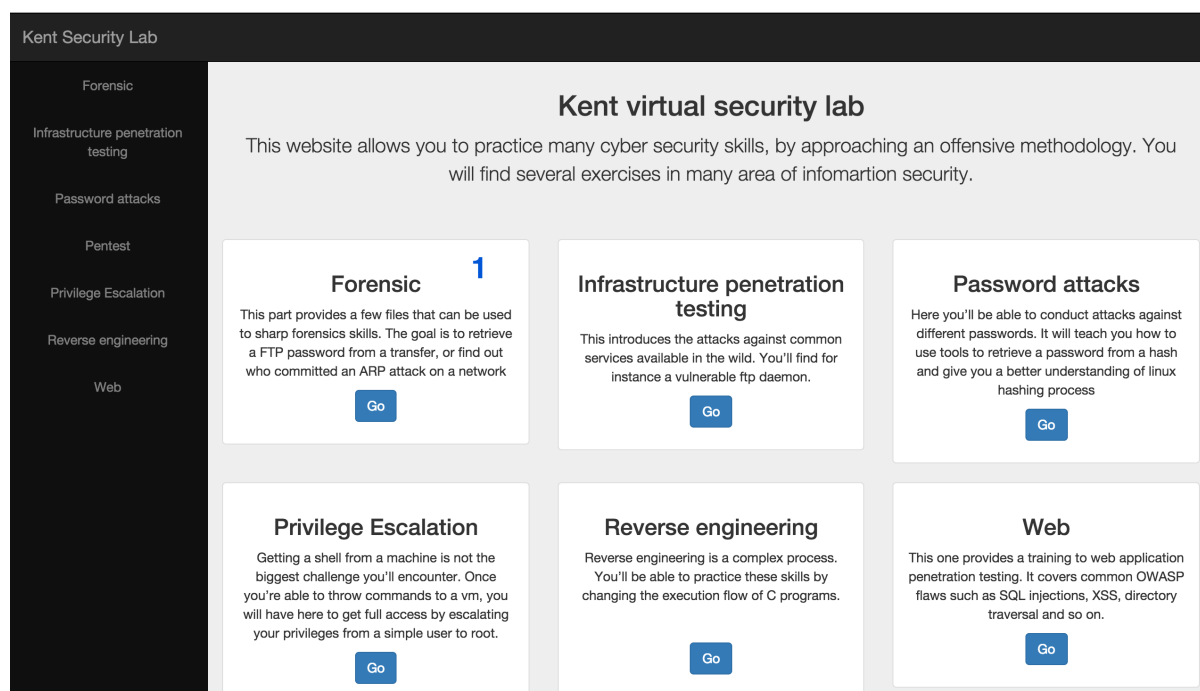
The Virtual Security Lab uses a website in order to display the different exercises. This guide will explain how it is working and how to use it.

## 2 - User side

The user side is a public space. It is not necessary to have any account to use it. It is composed by two principal views. On each view, you may use the left sidebar which is composed by the different categories.

### 1 - Homepage

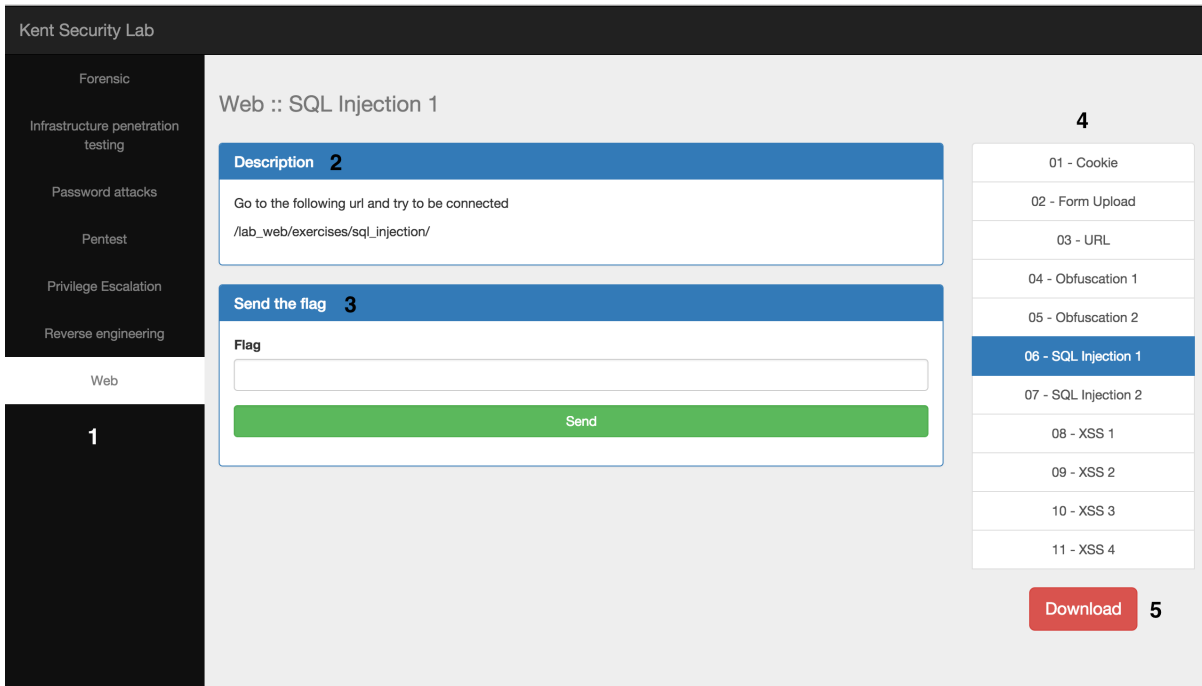
The first view is the homepage. On this webpage, it is possible to see the different categories such as Forensic, Web, Password attacks. The blue button “GO” will allow to open the webpage containing the exercises according to the selected category. The category must have a description to be displayed on this page.



Number	Name	Description
1	Categories	This is the menu with the different categories traite by our lab. The blue button “Go” allow to go in the selected category exercise page.

## 2 - Exercise description

The second view is the detail of the exercise. It is composed by the exercise description. It is then possible to have the flag box if the exercise has got one. Otherwise, it is possible to have access on the exercises in the category with the right sidebar.



The screenshot displays the 'Kent Security Lab' interface. On the left, a sidebar (1) lists categories: Forensic, Infrastructure penetration testing, Password attacks, Pentest, Privilege Escalation, Reverse engineering, and Web. The main content area is titled 'Web :: SQL Injection 1'. It features a 'Description' box (2) with the text: 'Go to the following url and try to be connected /lab\_web/exercises/sql\_injection/'. Below this is a 'Send the flag' box (3) with a 'Flag' input field and a 'Send' button. To the right, a list of other exercises (4) is shown, including '01 - Cookie', '02 - Form Upload', '03 - URL', '04 - Obfuscation 1', '05 - Obfuscation 2', '06 - SQL Injection 1' (highlighted), '07 - SQL Injection 2', '08 - XSS 1', '09 - XSS 2', '10 - XSS 3', and '11 - XSS 4'. At the bottom right, there is a 'Download' button (5).

Number	Name	Description
1	Categories	This is the menu with the different categories traite by our lab.
2	Exercise Description	The description of the exercise, with what to do and where to go to do it.
3	Flag (Optional)	This box is not here when the exercise doesn't require any flag. Otherwise, the user can try the flag got in the exercise.
4	Other Exercises	This is the list of the other exercises available in this categories.
5	Download	This is the button to download the exercise, it always redirect to the drive space.

### 3 - Administration side

The administration side is a private space. It is necessary to be logged to use it. In this area, categories and exercises can be created in order to fill the website. The admin side is composed by two views.

## Kent Lab Admin

Login

Password

Sign in

## 1 - Category part

The first view is the category management. It is possible to update/remove/add every category and seen them in a DataTable.

Kent Security LabCategoriesExercises

Sign out

Create a Category

Category form

Name  
1

Description  
2

SubmitCancel

3

Categories

Show10entriesSearch:

Name	Description	See	Update	Delete
Forensic	This part provides a few files that can be used to sharp forensics sk...			
Infrastructure penetration testing	This introduces the attacks against common services available in the ...			
Password attacks	Here you'll be able to conduct attacks against different passwo...			
Pentest	...			
Privilege Escalation	Getting a shell from a machine is not the biggest challenge you&rsquo...			
Reverse engineering	Reverse engineering is a complex process. You'll be a...			
Web	This one provides a training to web application penetration...			

Showing 1 to 7 of 7 entriesPrevious1Next

Number	Name	Description
1	Name	The category name
2	Description (Optional)	The category description in order to be displayed on the homepage
3	Submit/Cancel	Button to add/update or cancel the action
4	DataTable	Available categories can be see with this table, we can research by anything in the search box. Different action are possible such as Delete/Update by click on the icon.

## 2 - Exercise Part

The second view is also the exercise management, and it is exactly the same thing.

Kent Security LabCategoriesExercisesSign out

Create an Exercise

Exercise form

Name

1

Category

Forensic2

Description

3

Linked Content

4

Flag

5

Submit

Cancel

6

Exercises7

Show 10 entries

Search:

Name	Category	Description	Linked Content	See	Update	Delete
01 - Boot2Root	Privilege Escalation	Try to root this VM by escalating from a simple user. Use SSH to connect toto:42 Rememb...	http://www.google.fr...			
01 - Cookie	Web	Go to the following url and try to be connected as an Admin /lab_web/exercises/cookie	https://drive.google.com/file/...			
01 - FTP	Infrastructure penetration testing	This Virtual machine has a vulnerability regarding it is ftp software. Tips: find the v...	https://drive.google.com/file/...			
01 - HTTP basic authentication	Forensic	This is a Wireshark trace file containing a HTTP basic authentication. Retrieve usernam...	http://www.google.fr...			
01 - Netcat bind shell scenario	Pentest	This exercise simulates the forward of a shell using nectat. The use of two computers w...	http://www.google.fr...			
01 - Web form	Password attacks	Go to the following address and find the username:password /lab_web/exercises/brute_for...	https://drive.google.com/file/...			
02 - Wordpress	Infrastructure penetration testing	Go on the following address and try to find the differents vulnerabilities on this wordpress ...	https://drive.google.com/file/...			
02 - ARP Poisoning	Forensic	This is a Wireshark trace file containing an ARP poisoning attack. Find the IP and MAC ...	http://www.google.fr...			
02 - Form Upload	Web	Go to the following url and try to upload some code to see what's happen /lab_web/e...	https://drive.google.com/file/...			
02 - Netcat reverse shell scenario	Pentest	In this scenario, B has to connect to A. You have no control of the NAT device and ther...	http://www.google.fr...			

Showing 1 to 10 of 21 entries

Previous

1

2

3

Next

Number	Name	Description
1	Name	The exercise name
2	Category	The exercise category
3	Description	The exercise description
4	Linked content	The exercise linked content, it have to be an url.
5	Flag (Optional)	According to the exercise, a flag can be set
6	Submit/Cancel	Button to add/update or cancel the action
7	DataTable	Available exercises can be see with this table, we can research by anything in the search box. Different action are possible such as Delete/Update by click on the icon.