



# Hacking-Lab Remote

## Swiss Security Lab

### Introduction

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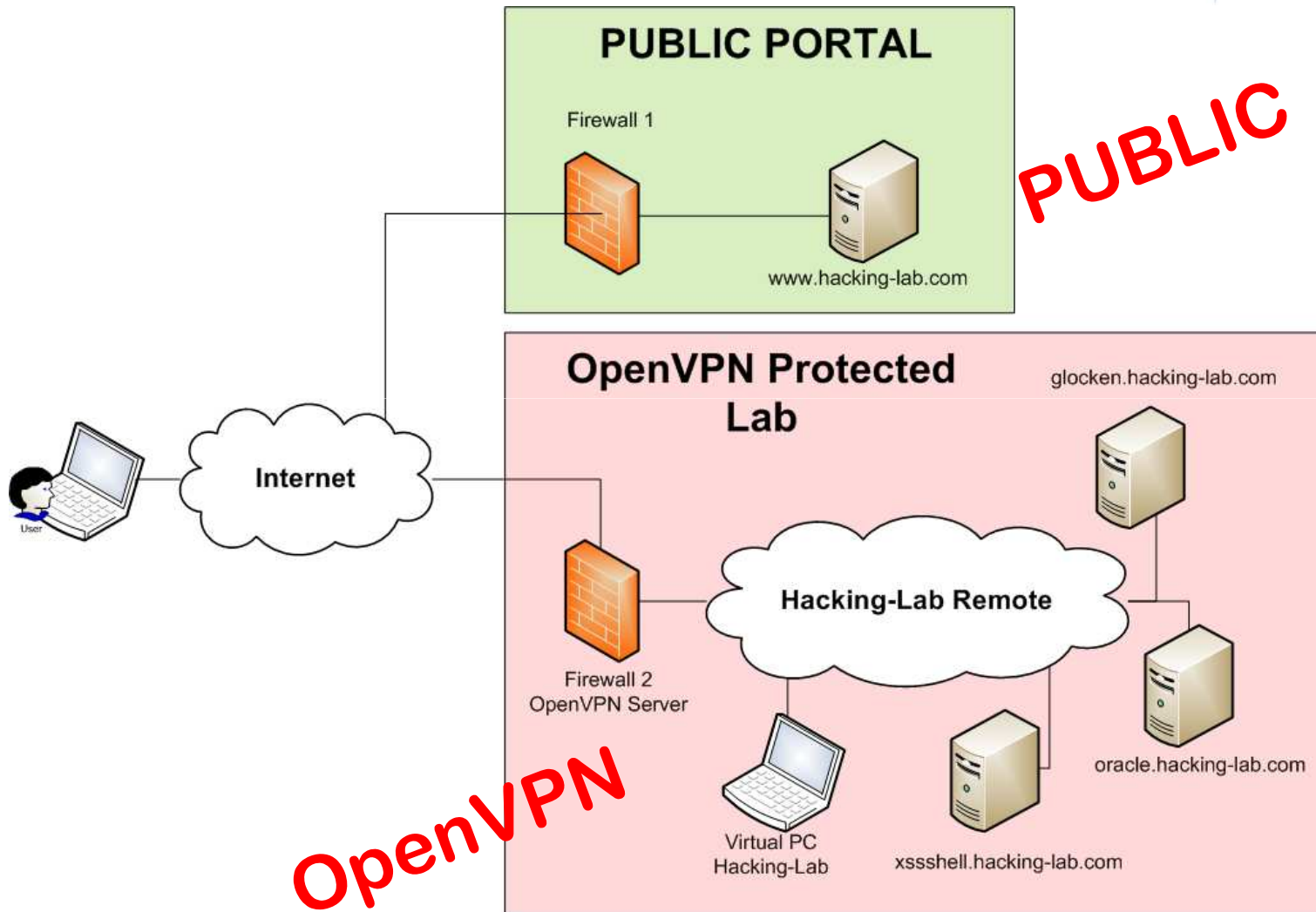
## What is this presentation about?



Hacking-Lab Remote provides a professional IT security lab infrastructure to universities and companies.

This presentation is designed for the **Hacking-Lab Audience** to learn and understand the provided Hacking-Lab Remote lab infrastructure, wargame cases, procedures, tools, requirements for certain cases and solutions.

# Hacking-Lab Architecture

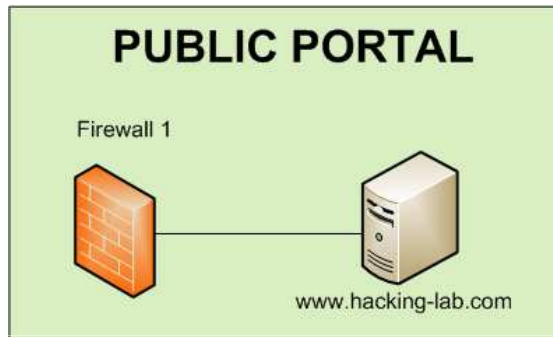


## Hacking-Lab Remote::Benefits



- Hacking-Lab Remote provides a professional security lab
- Hands-on Trainings
- Tested with more than 150 concurrent participants
- Covers all OWASP TOP 10 issues (2007 & 2010)
- Standardized client setup (LiveCD)
- Teacher functionality (giving points, solutions)
- Cost effective
- Updates and new case development

- [www.hacking-lab.com](http://www.hacking-lab.com) is the **Public Portal**

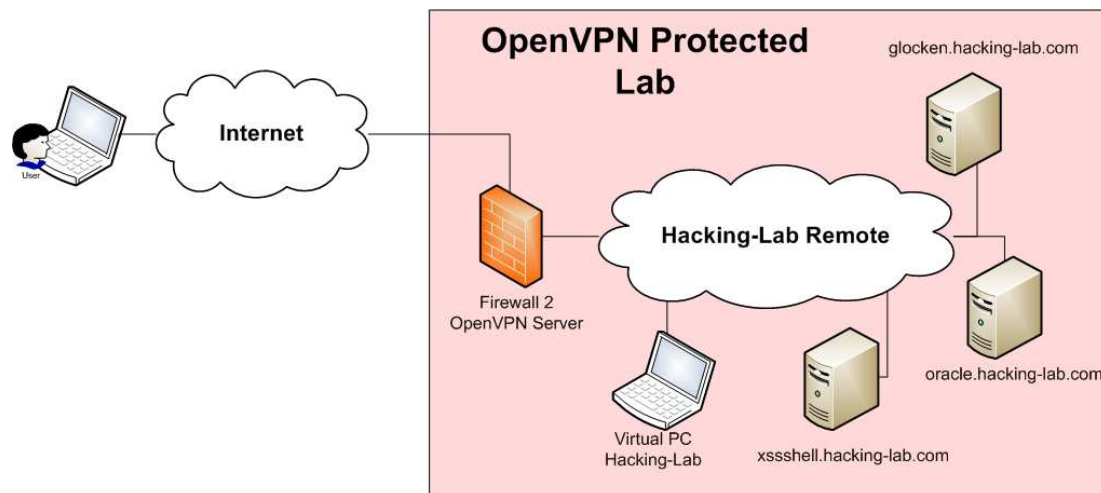


- **Core Features of the Public Portal**
  - ◆ Event Management (start time, end time, participants, costs)
  - ◆ Wargame Case Management (case descriptions & solutions)
  - ◆ User Management (self-registration, password reset, profile update)

# Hacking-Lab Remote::OpenVPN



- The user/participant of Hacking-Lab Remote requires a valid OpenVPN setup and client certificates or a vpn enabled where Username/Password auth is enabled to access the lab environment
- Users can use the Hacking-Lab LiveCD as a standardized client platform, or use their own, private computer. The OpenVPN connection is mandatory. Once the client certificate or the event gets expired, the openvpn connection will be dropped.



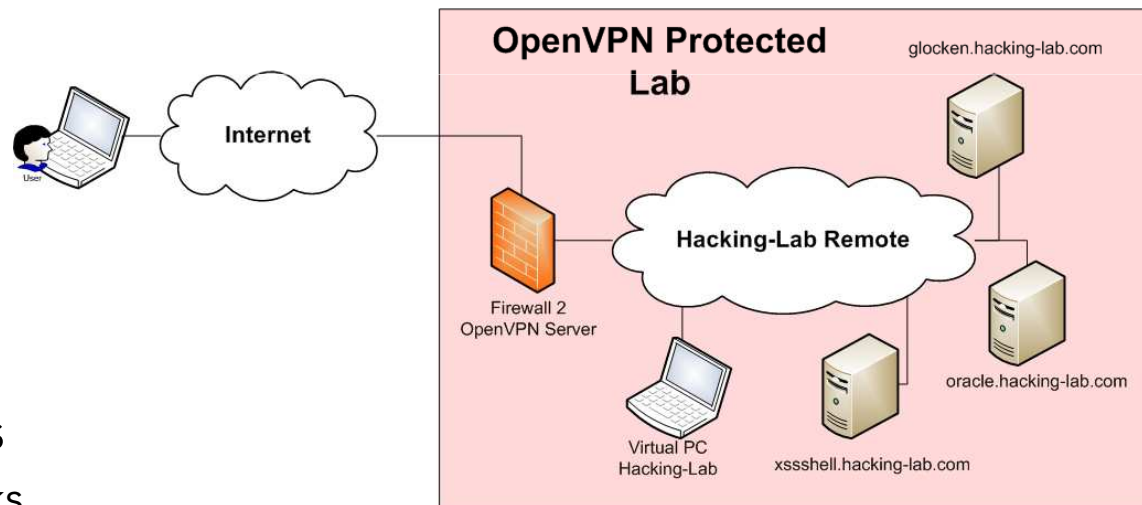
**OpenVPN**

# Hacking-Lab Remote::Limitations



Please note, some lab cases cannot be solved from remote.

Hacking-Lab provides a Linux-based Virtual-PC that runs as VMWare Image within the Hacking-Lab Remote broadcast domain to address this limitation.



- **Lab Limitations**
  - ◆ Layer 2 Attacks
  - ◆ ARP Spoofing



# Ranking Page

## Solved Lab Cases

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# Giving Points – Step 1



super monster

**HACKINGLAB**

nina Knowledge Base

Event Cases

SBS-LiveCD-Template-Hacking-Lab-Remote

Ranking

	Name	Level	Duration		Solved by	Pt.
	2000 Glocken Emil Discovery	1	15	Details / Send Solution	1	★
	2100 Web Security: Username Enumeration	1	10	Details / Send Solution	0	★
	2101 Web Security: Bypassing Authorization	1	10	Details / Send Solution	0	★
	2102 Web Security: Sniffing Passwords	1	20	Details / Send Solution	0	★
	2202 Web Security: Internet Cafe	1	10	Details / Send Solution	0	★
	2202 Web Security: Predictable Session-ID	1	15	Details / Send Solution	0	★
	2202 Web Security: Secure Cookie Flag	1	30	Details / Send	0	★

My Menu

- Edit My Profile
- Logout

CYBERSTORM

Press Icon to give points

## Giving Points – Step 2



The screenshot shows a web interface for "HACKINGLAB" with a dark background and binary code. The top left shows a user profile for "super monster". The top right features the "nina Knowledge Base" logo. A left sidebar menu includes links for Home, About, Hacking-Lab News, Hacking-Lab Events, Hacking-Lab Courses, Hacking-Lab Remote, Hacking-Lab Nina, Hacking-Lab Forum, Hacking-Lab Chat, Hacking-Lab Ranking, Hacking-Lab Download, Login / Sign up, and My Menu (Edit My Profile, Logout). The main content area is titled "Give Points for 2101 Web Security: Bypassing Authorization:". It contains a "User:" dropdown menu with "asar" selected, a "Points:" input field with "(Max Score: 5)" next to it, and a "Save" button. Below this is a "Delete Points:" section with a dropdown menu and a "delete" button. A "back to the event" link is at the bottom. Two red arrows point from text annotations to the "Points:" input field and the "Delete Points:" dropdown menu.

**Give Points to User**

**Delete Points for User**

## Giving Points – Step 3



### Max Score

- ✦ This is the maximum score that is defined for this case
- ✦ Give full points if the participants solved it alone / independent
- ✦ Reduce score if the participant required special help

### Delete Points

- ✦ Delete points if Hacking-Lab teacher added points on mistake and enter the correct value afterwards

### Ranking

- ✦ Giving points changes the global ranking, per event ranking and the personal skill level

## Giving Points – Step 4

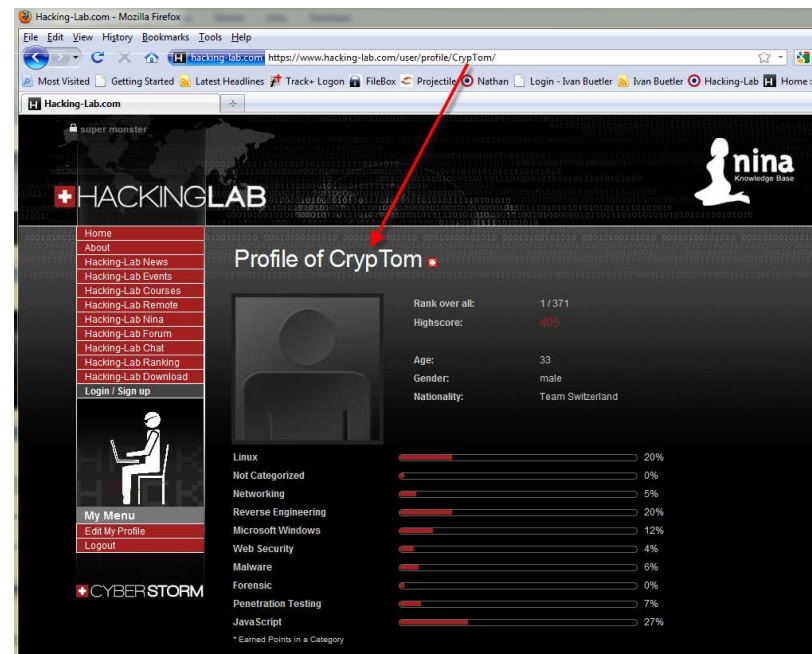


### Personal Skill Level

- ✦ Depends on what cases were solved
- ✦ Depends on how many points were received

### Skill Level per User (if authenticated in Hacking-Lab)

- ✦ Example: CryptTom





Hacking-Lab.com - Mozilla Firefox

File Edit View History Bookmarks Tools Help

hacking-lab.com https://www.hacking-lab.com/user/profile/CrypTom/

Most Visited Getting Started Latest Headlines Track+ Logon FileBox Projectile Nathan Login - Ivan Buetler Ivan Buetler Hacking-Lab Home: Ha

Hacking-Lab.com

super monster

**HACKINGLAB**

nina Knowledge Base

Home  
About  
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Hacking-Lab Remote  
Hacking-Lab Nina  
Hacking-Lab Forum  
Hacking-Lab Chat  
Hacking-Lab Ranking  
Hacking-Lab Download  
Login / Sign up

**Profile of CrypTom**

Rank over all: 1 / 371  
Highscore: 405

Age: 33  
Gender: male  
Nationality: Team Switzerland

Linux 20%  
Not Categorized 0%  
Networking 5%  
Reverse Engineering 20%  
Microsoft Windows 12%  
Web Security 4%  
Malware 6%  
Forensic 0%  
Penetration Testing 7%  
JavaScript 27%

\* Earned Points in a Category

My Menu  
Edit My Profile  
Logout

**CYBERSTORM**

SS  
RITY

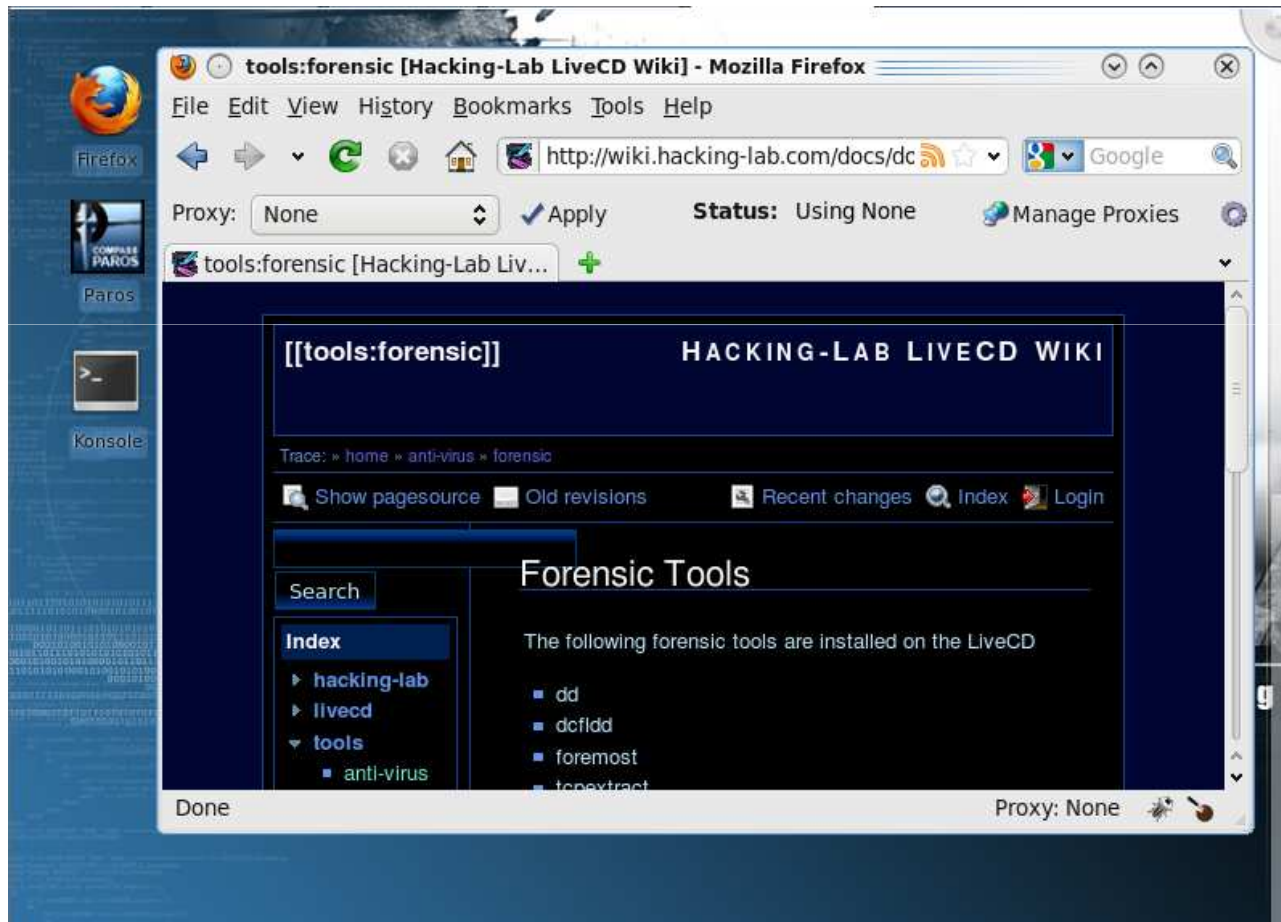
# LiveCD: Screenshot



## Standardized Setup for accessing Hacking-Lab Remote



## LiveCD Wiki: How to use the CD – Tools - Procedures





**Thank you for Reading**

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