

What is **Penetration** Testing and how can you start in the **Cyber Security** Field?

21.03.2025

AGENDA

01

Introduction

Introducing Ourselves to the New Era of Cyber Security & Collaboration

02

Penetration Testing

- What is Penetration Testing
- the Importance of Cyber Security

03

Start your Career

- How can you start
- What Resources can you use

04

Questions

Feel free to ask any question please



Eng. Ahmed Hassan
Cyber Security Engineer & Penetration Tester

Qualifications & professional certification



certification for advanced IT professionals

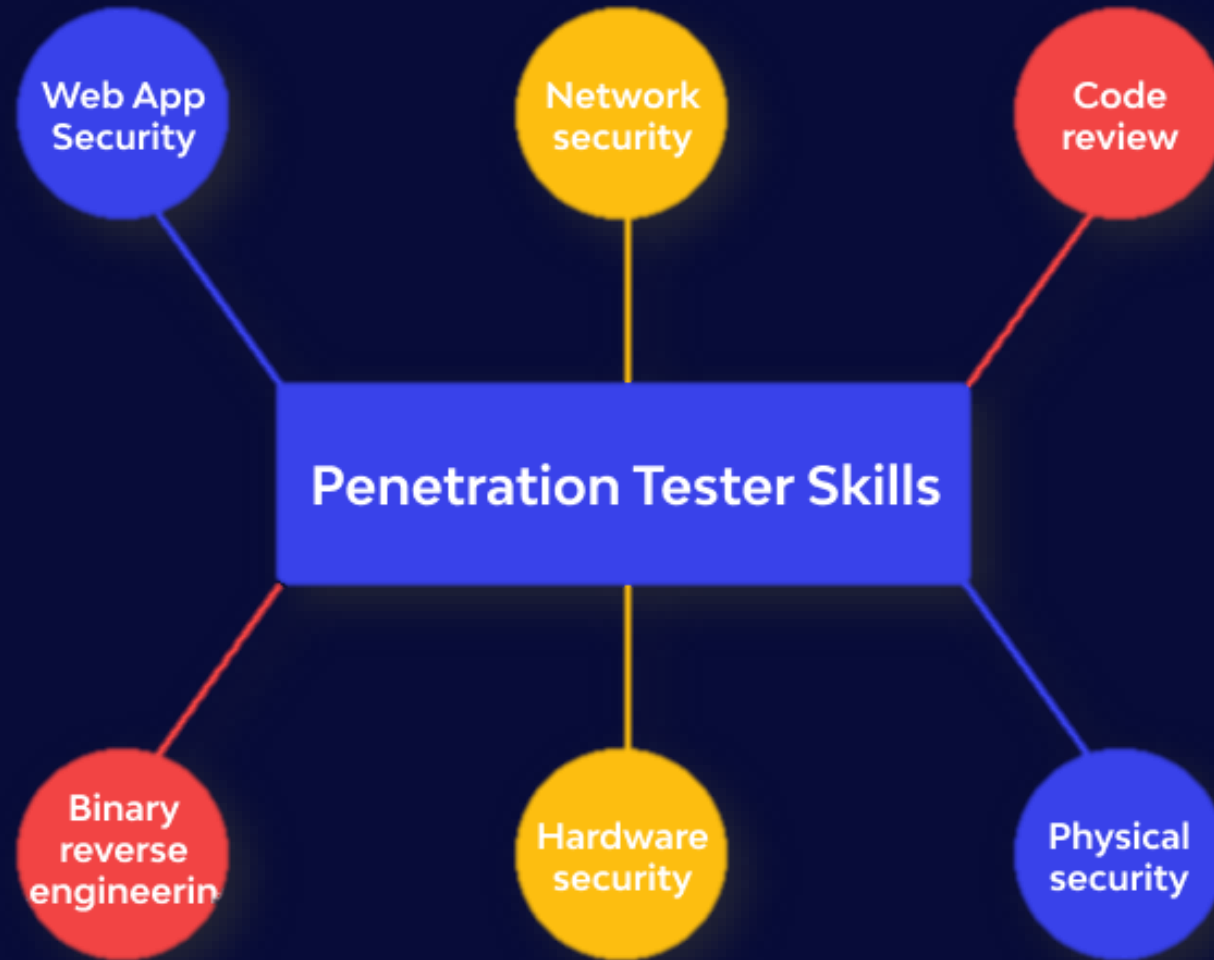


Certified EC-council Instructor
Certified Ethical Hacker



Offensive Security Certified Professional

Penetration Testing Paths



What is Pentesting?

A penetration test, also known as a pen test, is a simulated cyber attack against your computer system to check for exploitable vulnerabilities. In the context of web application security, penetration testing is commonly used to augment a web application firewall (WAF).



How can you start in IT-Security?

- eJPT (eLearnSecurity Junior Penetration Tester)
- eWPT (eLearnSecurity Web Application Penetration Tester)
- eCPPT (eLearnSecurity Professional Penetration Tester)



Pentesting

- Millions of Companies got **Hacked**
 - Companies need **Pentester**
 - Improve your Skills



YOU HAVE BEEN
HACKED !

+Dunken K B

Uber and GTA 6 Hacked & Leaked

UK police arrest teenager suspected of Uber, GTA 6 hacks

Carly Page @carlypage_ / 4:28 PM GMT+2 • September 26, 2022

Comment



Grand Theft Auto 6 leak: who hacked Rockstar and what was stolen?

A major data breach has given the world an early look at Grand Theft Auto 6. Why is this such bad news for the developer?

Uber staff posted a comment. Sep 15th (5 mins ago)

UBER HAS BEEN HACKED (domain admin, aws admin, vsphere admin, gsuite SA) AND THIS HACKERONE ACCOUNT HAS BEEN ALSO

Uber

How Uber was hacked in 2022

Other Resources



HacktheBox



TCM Security Academy



Tryhackme



Pentester Academy

<https://github.com/ashutoshshah1/Ethical-hacking-Roadmap>

Penetration Tester HackTheBox

HACKER | 17 MIN READ

How to become a penetration tester: (Practical) career guide

So you want to become a penetration tester but don't know where to start? This step-by-step guide is for you!

by mr3n, Nov 09 2022

HACKTHEBOX



HOW TO

BECOME A PENTESTER

CONTENTS

What does a penetration tester do on a daily basis?

How to become a penetration tester: 5 practical steps

Step 1: Know thyself (and your suitability for a penetration testing career)

Step 2: Level up your skills

Learning or becoming a penetration tester from scratch

How to get started in pentesting with IT experience

Step 3: Get a hacking or penetration testing certification

Step 4: Get your hands dirty in real-world environments

Step 5: Start applying

(Bonus) Step 6: Carve out a unique advantage

Average penetration tester salary (for beginners): How much do penetration testers make?

Penetration Tester Tryhackme

Learning Paths

Work your way through a structured learning path



Red Teaming

Learn the skills needed to become a Red Team Operator

- Use diverse techniques for initial access
- Enumerate and persist on targets
- Evade security solutions
- Exploit Active Directory

Intermediate 48 hours



Introduction to Cyber Security

Learn the core skills required to start a career in cyber security

- Learn about different careers in cyber
- Hack your first application
- Defend against a live cyber attack
- Explore security topics in the industry

Easy 24 hours



Jr Penetration Tester

Learn the necessary skills to start a career as a penetration tester

- Pentesting methodologies and tactics
- Enumeration, exploitation and reporting
- Realistic hands-on hacking exercises
- Learn security tools used in the industry

Intermediate 64 hours



Pre Security

Before hacking something, you first need to understand the basics

- Cyber security basics
- Networking basics and weaknesses
- The web and common attacks
- Learn to use the Linux operating system

Easy 40 hours

Penetration Tester



Web Penetration Testing

Network Penetration Testing



Active Directory Pentesting

Mobile Pentesting



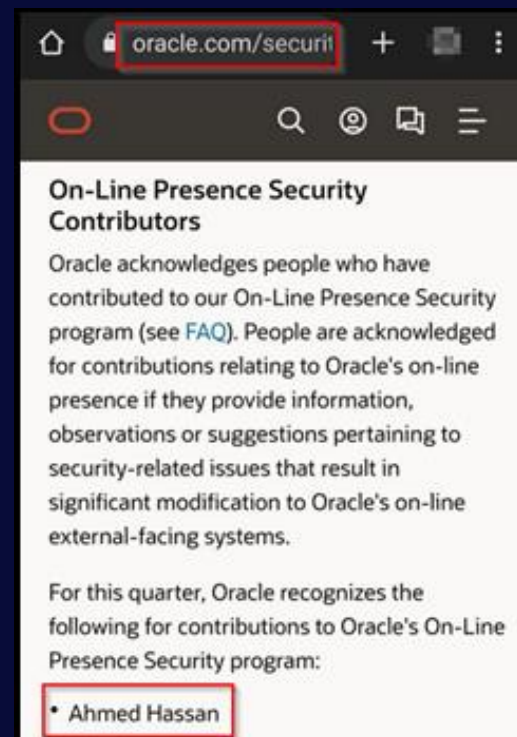
Companies Acknowledgments

FOUND VULNERABILITIES (BUG BOUNTY PROGRAMMS)

Siemens
United Nations (UN)
Sparkasse Bank (Austria)
osd.myndr.nl
forescout.com
Government Technology Agency of Singapore (GovTech)
MTN Group
UK Ministry of Defense (Hacker Coin as Thank you received)
UK Government
U.S. Department of State 7x -> multiple Vulnerabilities submitted (Stored XSS, SQL Errors, SQL Injection etc.)
NASA
 (Bounty 200 Euro) (stored XSS and HTML Injection)
INDIAN GOVERNMENT -> Stored Cross Site Scripting (XSS)
PHILIPINES GOVERNMENT -> Reflected Cross Site Scripting (XSS)
CERT-EU Computer Emergency Response Team (CERT-EU) for the EU institutions
SCOTTISH GOVERNMENT -> multiple Vulnerabilities
SINGAPORE GOVERNMENT NEW ZEALAND GOVERNMENT
Huawei -> stored XSS and File Upload Restriction Bypass
Drexel University University of Texas of Austin
HP (Hewlett Packard) 2x Vulnerabilities

FOUND VULNERABILITIES (BUG BOUNTY PROGRAMMS)

stkr.nl
Drexel University
Nokia
Oracle
Kuula
Bosch
Lenovo
Philips



The screenshot shows a web browser window with the address bar displaying "oracle.com/securit". The page title is "On-Line Presence Security Contributors". The main text states: "Oracle acknowledges people who have contributed to our On-Line Presence Security program (see [FAQ](#)). People are acknowledged for contributions relating to Oracle's on-line presence if they provide information, observations or suggestions pertaining to security-related issues that result in significant modification to Oracle's on-line external-facing systems." Below this, it says: "For this quarter, Oracle recognizes the following for contributions to Oracle's On-Line Presence Security program:" followed by a bulleted list containing "Ahmed Hassan", which is highlighted with a red box.

oracle.com/securit

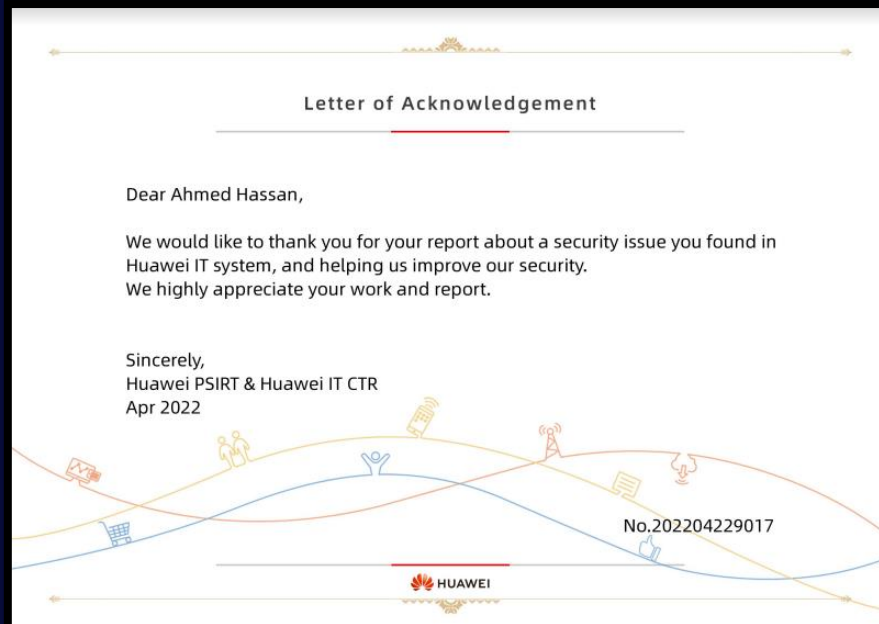
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For this quarter, Oracle recognizes the following for contributions to Oracle's On-Line Presence Security program:

- Ahmed Hassan

Companies Acknowledgments



<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-smb-sxss-OPYJZUmE>

Source

Cisco would like to thank Ahmed Hassan and Josef Hassan for reporting this vulnerability.

URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-smb-sxss-OPYJZUmE>

QUESTIONS ?

THANK YOU



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TCSS