

**Try Harder? Keep Trying!**  
**Demystifying OSCP/OSCE**

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# \$ whoami

- Active Duty Air Force - Cyber Warfare Operator
- Part Time Bug Hunter
- Avid CTFer
- Chicken Wrangler
- Fan of Offensive Security Certs
  - OSCP & OSCE
  - AWE/OSEE Virtual?!?! Maybe!?!



**Offensive Security Orders** <orders@offensive-security.com>

to me ▾

Dear Johnathan,

We are happy to inform you that you have successfully completed the Penetration Testing with Kali Linux certification exam and have obtained your **Offensive Security** Certified Professional (OSCP) certification.

Listed below is your name as it will appear on your printed certification. If any changes are required, please let us know right away at [orders@offensive-security.com](mailto:orders@offensive-security.com).

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to me ▾

Dear Johnathan,

We are happy to inform you that you have successfully completed the Cracking the Perimeter certification exam and have obtained your **Offensive Security** Certified Expert (OSCE) certification.

Listed below is your name as it will appear on your printed certification. If any changes are required, please let us know right away at [orders@offensive-security.com](mailto:orders@offensive-security.com).

# OUTLINE

- Quick Overview on OffSec Certifications
- Try Harder?
- OSCP Preparations
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- Closing

# Quick Overview

- Offensive Security is the “Industry-Leading Online Penetration Testing Training and Certification for Information Security Professionals”
- Offensive Security currently offers six certifications
  - KLCP - Kali Linux Certified Professional
  - OSCP - Offensive Security Certified Professional
  - OSWP - Offensive Security Wireless Professional
  - OSCE - Offensive Security Certified Expert
  - OSWE - Offensive Security Web Expert
  - OSEE - Offensive Security Exploitation Expert
- We’re going to focus on OSCP & OSCE today

# Try Harder?

- Anybody has has heard of an Offensive Security has probably heard about their “Try Harder” philosophy.
- Harsh? Maybe? Perseverance is going to carry you a long way with these types of practical certifications.

The logo features the text "OFFSEC SAY" in white, followed by "YOU MUST" in white text inside a red rectangular box. Below this, the words "TRY HARDER" are written in a large, bold, white sans-serif font, with a registered trademark symbol (®) to the upper right of the word "HARDER".

OFFSEC SAY **YOU MUST**  
**TRY HARDER®**

# OSCP Preparation

- This is a really important part and often overlooked.
- If you are not familiar with a linux command line, start there.
- Even the most basic familiarization of common pentesting tools will be helpful here.
- Not a requirement, but it can never hurt to begin getting yourself comfortable with any scripting language that interests you.
- Read Reviews!
- Once you get and have reviewed the course material, make sure you spend the majority of your time in the lab environment!

# OSCP Resources

- There is a HUGE amount of content out there in regards to OSCP. Here is a list I personally used and found helpful.
- JohnHammond's YouTube Videos. General CTF + Recent OSCP videos
- 31 Days of OSCP Experience - <https://scriptdotsh.com/index.php/2018/04/17/31-days-of-oscp-experience/>
- Obviously ippsec's videos - <https://www.youtube.com/playlist?list=PLidcsTyj9JXK-fnabFLVEvHinQ14Jy5tf>
- 0xdf hacks stuff - <https://0xdf.gitlab.io/>
- Hakluke's Ultimate OSCP Guide - <https://medium.com/@hakluke/haklukes-ultimate-oscp-guide-part-1-is-oscp-for-you-b57cbcce7440>
- TryHackMe - <https://tryhackme.com/>
- **TJ's Massive OSCP Guide** - [https://www.netsecfocus.com/oscp/2019/03/29/The\\_Journey\\_to\\_Try\\_Harder-\\_TJNulls\\_Preparation\\_Guide\\_for\\_PWK\\_OSCP.html](https://www.netsecfocus.com/oscp/2019/03/29/The_Journey_to_Try_Harder-_TJNulls_Preparation_Guide_for_PWK_OSCP.html)
  - His OSCP-Like VM Spreadsheet - <https://t.co/sBy0l6uitf?amp=1>
- Buffer Overflow Practice - <https://github.com/justinsteven/dostackbufferoverflowgood>

# PWKv2 Resources!

- There have been some AMAZING improvements to PWK with their 2020 update. Here are some updated resources that have been released for it. (Disclaimer, I have not taken the exam for PWKv2)
- TheCyberMentor's OSCP Review 2020 - <https://youtu.be/T1AUCXXKzL8>
- thomfre.dev OSCP Experience - <https://thomfre.dev/my-osp-experience>
- LPEWorkshop - <https://github.com/sagishahar/lpeworkshop>
- PSEmpire3.0 - <https://www.bc-security.org/post/the-empire-3-0-strikes-back>
- JohnHammond's OSCP Review 2020 - <https://youtu.be/wjTt-5mfyhY>



# Testing Strats

- You're probably never going to feel ready
- Create a REPEATABLE enumeration process that you use for everything
  - Basically, the exam is not time to start something new.
- If you get stuck on the Buffer Overflow REWATCH THE VIDEOS!
- The above goes for any concepts that might have escaped you
- Relax and take a break or two!
- Good Documentation is key.
  - My personal choice is OneNote 2016. OCR'd screenshots ftw!



# OSCE Preparations

- You **don't** need to complete OSCP to do OSCE. Much more targeted for 32bit exploitation
- If you're used to doing VR/RE on modern systems with modern workflows it might be a difficult transition for OSCE.
  - OSCE uses perl, ollydbg, course ships with BackTrack 5 -.-
- Basic familiarity with x86 Intel ASM is helpful. (Not Required)
- Being able to work a debugger (setting breakpoints, step over functions)
- Vulnserver for Windows..
- Seriously Vulnserver for Windows

# OSCE Resources

- NetSec Focus's OSCE channel
- h0mbre's blog - <https://h0mbre.github.io/>
- AnubisSec blog - <https://anubissec.github.io/>
- ASCII/OPCODE Table - <http://www.bluesock.org/~willg/dev/ascii.html>
- Binaries to practice on - <https://github.com/73696e65/windows-exploits>
- Tulpa Security's OSCE Guide - <https://tulpa-security.com/2017/07/18/288/>
- PayloadAllTheThings LFI - <https://github.com/swisskyrepo/PayloadsAllTheThings/tree/master/File%20Inclusion>

# Testing Strategies

- Like OSCP, you're probably not going to feel "ready"
- You have 48 hours, take your time and try to avoid tunnel vision
- Start with what you feel most comfortable with.
- You may need to hit google up quite a bit, you have PLENTY of time.
- Unlike OSCP, I suggest reading some of the above resources during the exam and NOT the videos
- You have time to catch some sleep for this exam. Do that!
- Knowing Vulnserver attack vectors is going to help immensely!

# Issues with CTP/OSCE

- Teaches very important concepts, course is has outdated material but still very valuable.
- CTP/OSCE shipped with BackTrack5, I used the OSCP Kali 32bit VM for the exam.
- If you run out of lab time, look to replicate the lab and integrate vulnserver
- This feels like OffSec's forgotten course, just need a refresh imo
- If you do VR/RE as your day job, your workflow will be disrupted quite a bit, be ready for that.
- Sometimes the videos and slides do not match up well.

# Conclusion

- Don't believe the hype, OSCP and OSCE are very achievable.
- If you happen to fail, don't stop, retakes are relatively inexpensive.
- Try to take the course with a co-worker so you can kick ideas back and forth while working with the course material.
- Check out Netsec Focus, they have a very active OSCP & OSCE channels
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# THANKS FOR WATCHING MY TALK!

Additional questions after VirSecCon?



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