

# Offsec OSMR

Offsec OSMR Mac OS



This is to acknowledge that  
 Shen  
is certified as an  
**OSMR**  
(OffSec macOS Researcher)  
and successfully completed all requirements and criteria for  
said certification through examination administered by OffSec.  
This certification was earned on  
December 4, 2024



Offsec OSCP/OSEP/OSWE OSMR OSMR



OSMR Mac Mac Mac

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OSMR OSCE3 OSMR




OSMR 300 <https://www.offsec.com/course/exp-312/>

OSMR EXP C AMD64/ARM DEBUG

7	The Mach Microkernel (Apple Silicon)		December 01, 2024	<div><div></div></div>		
8	XPC Attacks (Apple Silicon)		December 04, 2024	<div><div></div></div>		
9	Function Hooking on macOS (Apple Silicon)		-	<div><div></div></div>	<div><div></div></div>	
10	The macOS Sandbox (Apple Silicon)		November 27, 2024	<div><div></div></div>		
11	Bypassing Transparency, Consent, and Control (Privacy) (Apple Silicon)		November 28, 2024	<div><div></div></div>		
12	GateKeeper Internals (Apple Silicon)		November 26, 2024	<div><div></div></div>		
13	Symlink and Hardlink Attacks (Apple Silicon)		November 27, 2024	<div><div></div></div>		
14	Injecting Code into Electron Applications (Apple Silicon)		November 26, 2024	<div><div></div></div>		
15	macOS Penetration Testing		December 01, 2024	<div><div></div></div>	<div><div></div></div>	<input checked="" type="checkbox"/>
16	macOS Control Bypasses: General Course Information archived archived		November 26, 2024	<div><div></div></div>		<input checked="" type="checkbox"/>
17	Introduction to macOS archived archived		November 19, 2024	<div><div></div></div>		<input checked="" type="checkbox"/>
18	The Art of Crafting Shellcodes archived archived		December 03, 2024	<div><div></div></div>	<div><div></div></div>	<input checked="" type="checkbox"/>
19	Dylib Injection archived archived		November 19, 2024	<div><div></div></div>	<div><div></div></div>	<input checked="" type="checkbox"/>
20	The Mach Microkernel archived archived		December 01, 2024	<div><div></div></div>	<div><div></div></div>	<input checked="" type="checkbox"/>
21	XPC Attacks archived archived		December 01, 2024	<div><div></div></div>	<div><div></div></div>	<input checked="" type="checkbox"/>
22	Function Hooking on macOS archived archived		November 13, 2024	<div><div></div></div>	<div><div></div></div>	<input checked="" type="checkbox"/>
23	The macOS Sandbox archived archived		December 01, 2024	<div><div></div></div>		<input checked="" type="checkbox"/>

OSMR ARM Mac Offsec Mac VM




Adrii

2024/12/1 12:19

Hi, I've noticed that last week most of the course content had been archived for the new "Apple Silicon" counterparts.


I see that most examples in the new coursework now use this "sonoma1" machine but it doesn't appear as a challenge lab? When will sonoma1 be available to use?



ApexPredator

2024/12/1 12:51


The announcement said the lab machines are being discontinued and that students will have to build their own local VMs on apple hardware



Adrii

2024/12/1 13:03



Thanks @ApexPredator, I wasn't aware of the announcement. As the course is now more focused on ARM, I imagine that there will also be changes to the exam, right? Is there any estimated date for this? I plan to take the exam in 1-2 months.



ApexPredator

2024/12/1 13:04

I haven't heard anything. Not sure how they will solve the issue of apple silicon VMs in the cloud though for the exam.

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The Art of Crafting Shellcodes (Apple Silicon Edition)  
GateKeeper Internals  
Bypassing GateKeeper  
Injecting Code into Electron Applications archived  
Mach IPC Exploitation  
Chaining Exploits on macOS Ventura

OSMR

Mac



OSMR <https://help.offsec.com/hc/en-us/articles/4411099553172-OSMR-Exam-FAQ> (  
<https://help.offsec.com/hc/en-us/articles/4411107766804-EXP-312-Advanced-macOS-Control-Bypasses-OSMR-Exam-Guide> OSMR



1. 使用 C 语言编写 DEBUG 程序
2. 使用汇编语言编写
3. 使用 Python 编写

## 工具

1. OSED 使用 OSMR 工具
2. 使用 OSED 工具 C 语言 OSMR 工具 Objective-C 工具

## 环境

使用 OSMR 工具 OSMR 工具

## 步骤

1. 使用工具
2. 使用 Offsec 工具
3. 使用 Mac 工具

## 参考

1. VNC 工具 lab 工具 <https://www.nomachine.com/> 工具
2. Offsec 工具

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Revision #7

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