OffSec WEB-200 12 Week Learning Plan

Welcome to OffSec WEB-200! We are delighted to offer a customized learning plan designed to support your learning journey and ultimately enhance your preparedness for the Offensive Security Web Assessor (OSWA) certification.

The Learning Plan comprises a week-byweek journey, which includes a recommended study approach, estimated learning hours, course topics to focus on, topic exercises, capstone exercises, and challenge machines to complete, as well as supplemental materials to reinforce your learning (if you so choose).

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Week 1 Week 2 Week 3 Week 4 Week 5 Week 6 <u>Week 7</u> <u>Week 8</u> <u>Week 9</u> <u>Week 10-12</u>

Overview and Study	identified in web applications.
Approach	We also recommend learners • OffSec Help and FAQs: <u>htt</u> • Discord: <u>How may I join th</u> • Youtube Channel: <u>@OffSe</u> • Twitch Channel: <u>@offseco</u> • Twitter: <u>@OffSecTraining</u>
Learning Topics	1) Tools 2) Cross-Site Scripting Introdu
Exercises	2.2.6. Practice - Extra Mile 2.3.2. Practice - Extra Mile 2.6.6. Practice - Extra Mile 2.8.4. Practice - Extra Mile 3.2.2. Practice - Useful APIs 3.3.1. Practice - Reflected Ser 3.3.2. Practice - Stored Serve 3.3.3. Practice - Reflected Cli 3.3.4. Practice - Stored Client
Estimate Time (Hours)	20
	Videos:
Supplemental Learning*	 OffSec Academy Recordin <u>OSA-WEB-200: Week</u> <u>OSA-WEB-200: Week</u>

Relevant Labs: N/A

The topics covered this week serve as an introduction to the course material and will help familiarize the various tools that allow us to enumerate and test web applications. We then review Cross-site scripting (XSS) attacks in the 2nd module for the week. This module will showcase the various types of XSS and how these vulnerabilities can be

> explore the following OffSec communication mediums: tps://help.offsec.com/hc/en-us ne OffSec Community? <u>cTraining</u> official

luction and Discovery

rver XSS r XSS ent XSS XSS

1 - Tools AND Insecure Direct Object Referencing 2 - Cross-Site Scripting Introduction and Discovery

Overview and Study Approach	This week will continue our ea on the various payloads and a have identified XSS vulnerabi
Learning Topics	1) Cross-Site Scripting Exploi
Exercises	 4.1.3. Practice - Stealing Sess 4.1.4. Practice - Stealing Loca 4.1.5. Practice - Keylogging 4.1.6. Practice - Stealing Save 4.1.7 Practice - Phishing User
Estimate Time (Hours)	20
	Videos:
Supplemental Learning*	 OffSec Academy Recordin <u>OSA-WEB-200: Week</u>
	Relevant Labs: N/A

exploration of cross-site scripting attacks, focusing specifically malicious actions that can be executed by attackers once they pilities.

bitation and Case Study

ssion Cookies al Secrets

ed Passwords rs

ings:<u>_</u> < 3 - Cross-Site Scripting Exploitation and Case Study

		This week starts with introdu Same-Origin Policy (SOP) an	
	Overview and Study Approach	The module will also review v policies.	
		We then move on to discuss	
	Learning Topics	1) Cross-Origin Attacks 2) Insecure Direct Object Re	
	Exercises	5.1.1 Same-Origin Policy 5.4.1 Accessing Apache OFB 5.6.1 Weak CORS Policies - D 5.6.2 Trusting Any Origin 5.6.3 Improper Domain Allow 13.2.1. Practice - Accessing 13.2.2. Practice - Exploiting S 13.2.3. Practice - Exploiting D 13.2.4. Practice - Exploiting D 13.2.5. Practice - Extra Mile	
	Estimate Time (Hours)	20	
		Videos:	
Supplemental Learning*		 OffSec Academy Records <u>OSA-WEB-200: Week</u> 	
		Relevant Labs: N/A	

ucing the policies that web browsers adhere to, specifically the nd Cross-Origin Resource Sharing (CORS).

various attacks that exploit vulnerabilities related to these

IDOR vulnerabilities and how they can be exploited.

ferencing

Biz Discovery

vlist The IDOR Sandbox Application Static File IDOR ID-Based IDOR More Complex IDOR

	W	ee	k	4
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Overview and Study Approach	We will start this week by fo database software. We also information on their structur
	We will then start the SQL Ir SQL injection vulnerabilities.
Learning Topics	1) Introduction to SQL 2) SQL Injection
Exercises	 6.1.1. Practice - Basic SQL S 6.2.1. Practice - MySQL Spe 6.3.1. Practice - Microsoft S 6.4.1. Practice - PostgreSQL 6.5.1. Practice - Oracle Spec 7.1.1. Practice - What is SQL 7.2.1. Practice - String Delim 7.2.2. Practice - Closing Out 7.2.3. Practice - Sorting 7.2.4. Practice - Boundary T 7.2.5. Practice - Fuzzing
Estimate Time (Hours)	20
	Videos:
	OffSec Academy Record

- Supplemental Learning*
- Relevant Labs: N/A

ocusing on the SQL syntax for the most commonly employed o discuss how we can enumerate these databases to obtain are.

njection module by examining techniques we can use to identify

Syntax

ecific Functions and Tables

SQL Server Specific Functions and Tables

L Specific Functions and Tables

cific Tables

Injection?

niters

t Strings and Functions

Testing

OffSec Academy Recordings: • <u>OSA-WEB-200: Week 4 - Introduction to SQL</u> • <u>OSA-WEB-200: Week 5 - SQL Injection</u>

Overview and Study Approach	This week will utilize the kno vulnerabilities. We will review vulnerabilities we have ident
Learning Topics	1) SQL Injection
Exercises	7.3.1. Practice - Error-based 7.3.2. Practice - UNION-base 7.3.3. Practice - Stacked Que 7.3.4. Practice - Reading and 7.3.5. Practice - Remote Coo 7.3.6. Practice - Extra Miles 7.4.1. Practice - SQLMap
Estimate Time (Hours)	20
Supplemental Learning*	Videos: • OffSec Academy Recordi • <u>OSA-WEB-200: Week</u> Relevant Labs: N/A

owledge acquired in the week prior to fully exploit SQL injection ew techniques and payloads we can use to exploit SQLi atified.

d Payloads sed Payloads ueries nd Writing Files ode Execution

dings: ek 5 - SQL Injection

	Overview and Study Approach	This week will cover the expl Traversal Attacks and XML E
	Learning Topics	1) Directory Traversal Attack 2) XML External Entities
	Exercises	8.3.2. Practice - Extra Mile I 8.3.4. Practice - Extra Mile II 8.4.2. Practice - Evidence of 8.5.3. Practice - Fuzzing the 8.6.2. Practice - Exploitation 8.6.3. Practice - Extra Mile 9.4.3. Practice - Extra Mile 9.4.4. Practice - Error-Based 9.4.5. Practice - Out-of-Band
·	Estimate Time (Hours)	20
Supplemental Learning*		Videos: N/A Relevant Labs: N/A

ploitation of two distinct vulnerabilities, namely, Directory External Entities.

ks I If Directory Listing e Path Parameter n d Exploitation nd Exploitation

W	ee	k	7

Overview a Approach	and Study	For this week, we review varion applications. The module will the symbol of the section of the s
Learning T	opics	1) Server-side Template Inject
Exercises		10.2.1. Practice - Twig - Disco 10.2.2. Practice - Twig - Explo 10.3.1. Practice - Freemarker 10.3.2. Practice - Freemarker 10.4.1. Practice - Pug - Exploit 10.4.2. Practice - Pug - Exploit 10.5.1. Practice - Jinja - Exploi 10.5.2. Practice - Jinja - Explo 10.6.1. Practice - Jinja - Explo 10.6.2. Practice - Mustache an 10.6.2. Practice - Mustache an 10.7.1. Practice - Accessing Ha 10.7.2. Practice - Halo - Trans 10.7.3. Practice - Halo - Explo 10.7.4. Practice - Extra Mile 10.8.1. Practice - Accessing Co 10.8.2. Practice - Craft CMS w 10.8.3. Practice - Craft CMS w
Estimate Ti	ime (Hours)	20

Videos:

Supplemental Learning*

• OffSec Academy Recordings:_

Relevant Labs: N/A

ious templating engines commonly employed by web then demonstrate how these templating engines can be l properly.

ction - Discovery and Exploitation

overy oitation - Discovery - Exploitation itation itation itation oitation nd Handlebars - Exploitation and Handlebars - Exploitation lalo slation and Discovery oitation Craft CMS with Sprout Forms - Discovery with Sprout Forms - Exploitation

• OSA-WEB-200: Week 8 - Server-side Template Injection - Discovery and Exploitation

Week 8	
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Overview and Study Approach	This week will cover the explo Injection and Server-side Req
Learning Module	1) Command Injection 2) Server-side Request Forge
Exercises	11.1.4. Practice - About the Ch 11.2.2. Practice - Typical Input 11.2.4. Practice - Extra Mile 11.3.2. Practice - Obtaining a 11.3.3. Practice - Obtaining a 12.2.3. Practice - Calling Hom 12.3.1. Practice - Retrieving D 12.3.2. Practice - Instance Me 12.3.3. Practice - Instance Me 12.3.4. Practice - Alternative D 12.3.5. Practice - Alternative D 12.4.1. Practice - Accessing G 12.4.2. Practice - Discovering 12.4.3. Practice - Exploiting th
Estimate Time (Hours)	20
	Videos:
	OffSec Academy Recordin

- Supplemental Learning*
- Relevant Labs: N/A

loitation of two distinct vulnerabilities, namely, Command quest Forgery.

ery

Chaining of Commands & System Calls ut Sanitization - Blocklisted Strings Bypass

Shell - Netcat Shell - Python me to Kali Data letadata in Cloud Authentication in Microservices URL Schemes

Group Office g the SSRF Vulnerabilities the SSRF Vulnerabilities

OffSec Academy Recordings:
 <u>OSA-WEB-200: Week 6 - Command Injection</u>
 <u>OSA-WEB-200: Week 7 - Server-side Request Forgery</u>

Overview and Study Approach	This week will demonstrate the machine. This will reinforce the use when testing web application. We will also provide an outline web will also provide an outline with the will be with the with the will be with the with the with the will be with the will be with the with the with the will be with the wit
Learning Topics	1) Assembling the Pieces
Exercises	Challenge Labs: Asio
Estimate Time (Hours)	20
Supplemental Learning*	Videos: N/A
	Relevant Labs: N/A

the full enumeration and exploitation process of the Asio lab the methodology and thought process professional pen testers cations.

ne on how to exploit the remaining WEB 200 lab machines.

Week 10-12

Overview and Study Approach	The aim for the last 3 weeks preparedness while identifyir
	The learner should attempt to
Learning Topics	None
Exercises	Challenge Labs:
	• Bambi
	• Bubo
	• Jubula
	Glaucidium
	Screamin
	Firehawk
Estimate Time (Hours)	20
Supplemental Learning*	Videos: N/A
	Relevant Labs: N/A

is to simulate an exam environment and assess your ing any areas that may require further attention.

to complete any of the provided Web 200 Challenge Labs.