

Minor-2 Project: Metasploitable & Mutillidae II – Explanation with Screenshots

Step 1: Metasploitable IP Configuration

```
shivamsahu@metasploitable:/$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 16436 qdisc noqueue
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast qlen 1000
    link/ether 00:0c:29:dd:02:59 brd ff:ff:ff:ff:ff:ff
    inet 192.168.66.128/24 brd 192.168.66.255 scope global eth0
    inet6 fe80::20c:29ff:fedd:259/64 scope link
        valid_lft forever preferred_lft forever
shivamsahu@metasploitable:/$
```

This screenshot shows the successful network configuration of Metasploitable 2. An IPv4 address (192.168.66.128) is assigned to the eth0 interface using NAT mode. This confirms that the virtual machine can communicate with the host system. Obtaining a valid IP address is mandatory to access web applications like Mutillidae from the browser.

Step 2: User Creation (Initial)

```
msfadmin@metasploitable:/home$ sudo adduser shivamsahu
Adding user `shivamsahu' ...
Adding new group `shivamsahu' (1004) ...
Adding new user `shivamsahu' (1004) with group `shivamsahu' ...
Creating home directory `/home/shivamsahu' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for shivamsahu
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [y/N] y
msfadmin@metasploitable:/home$ _
```

This image shows the creation of a new user using the `adduser` command. The system creates a new user, group, and home directory. User details such as password and basic information are set. This fulfills the project requirement of creating a user inside Metasploitable.

Step 3: Mutillidae Database Error

← → ↻ Not secure 192.168.66.128/mutillidae/index.php?page=login.php


Error: Failure is always an option and this situation proves it	
Line	49
Code	0
File	/var/www/mutillidae/process-login-attempt.php
Message	Error executing query: Table 'metasploit.accounts' doesn't exist
Trace	#0 /var/www/mutillidae/index.php(96): include() #1 {main}
Diagnostic Information	SELECT * FROM accounts WHERE username='admin' AND password=''
Did you setup/reset the DB?	

Warning: Cannot modify header information - headers already sent by (output started at /var/www/mutillidae/process-login-attempt.php:97) in /var/www/mutillidae/index.php on line 148

Warning: Cannot modify header information - headers already sent by (output started at /var/www/mutillidae/process-login-attempt.php:97) in /var/www/mutillidae/index.php on line 254

Warning: Cannot modify header information - headers already sent by (output started at /var/www/mutillidae/process-login-attempt.php:97) in /var/www/mutillidae/index.php on line 255

Warning: Cannot modify header information - headers already sent by (output started at /var/www/mutillidae/process-login-attempt.php:97) in /var/www/mutillidae/index.php on line 256

**Mutillidae: Born to be Hacked**

Version: 2.1.19	Security Level: 0 (Hosed)	Hints: Disabled (0 - I try harder)	Not Logged In			
Home	Login/Register	Toggle Hints	Toggle Security	Reset DB	View Log	View Captured Data
Core Controls	Login					

This image shows the Mutillidae II database error. The error indicates that the required database tables do not exist. This happens because the database is not initialized by default. Identifying this error is part of the project requirement.

Here, we are shown a directory `/var/www/mutillidae/` .

The directory `/var/www/mutillidae/` contains all server-side files of the Mutillidae II web application. This includes PHP scripts, configuration files, and database interaction logic. Since Apache serves content from `/var/www/`, accessing this directory confirms that Mutillidae is correctly hosted on the web server. Any database misconfiguration directly affects files inside this directory. Analyzing this path helps in understanding how web applications are structured on Linux servers.


Step 4: Mutillidae Database Configuration

```
msfadmin@metasploitable:~$ cd /var/www/mutillidae/  
msfadmin@metasploitable:/var/www/mutillidae$ sudo nano config.inc_
```

This screenshot shows editing of the Mutillidae configuration file. Database connection parameters such as host, user, and database name are verified. Correct configuration is necessary for proper database communication. This step helps resolve database-related issues.

Step 5: Database Reset and OWASP Setup


```
GNU nano 2.0.7      File: config.inc      Modified
<?php
    /* NOTE: On Samurai, the $dbpass password is "samurai" rather than blan$
    $dbhost = 'localhost';
    $dbuser = 'root';
    $dbpass = '';
    $dbname = 'owasp10';
?>
```

 ^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell

This image shows the database setup/reset option in Mutillidae. Resetting the database creates required tables automatically. OWASP Top 10 vulnerabilities become accessible after this step. This confirms successful database initialization.

Step 6: Mutillidae Working Successfully

View your details

 **Back**

Please enter username and password to view account details

Name

Password

View Account Details

Dont have an account?

[Please register here](#)

Results for . 1 records found.

Username=shivam

Password=shivam

Signature=

This screenshot confirms that Mutillidae II is working correctly. The application loads without database errors. User data can be viewed successfully, proving full functionality. This completes the Mutillidae II fix requirement.