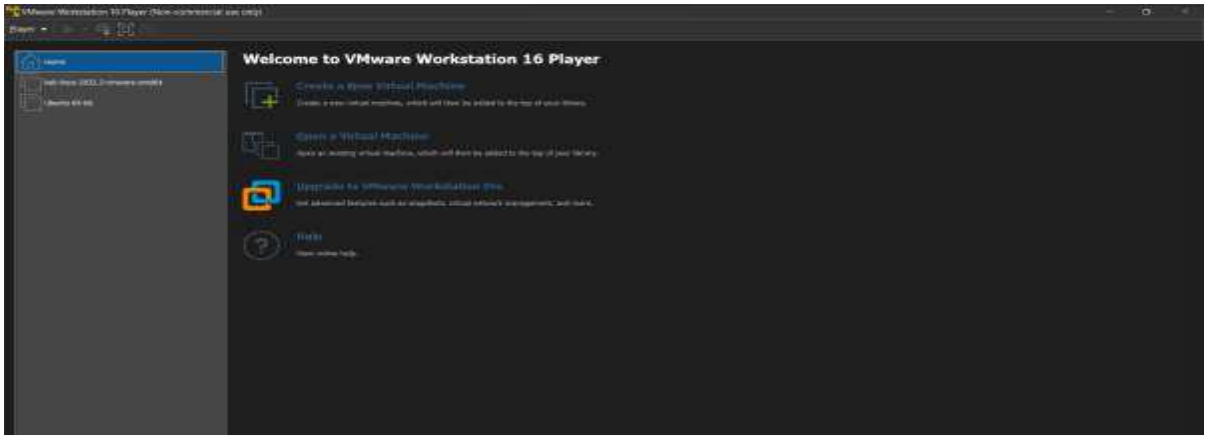
Download VMWare Workstation Player and Load Kali Linux OS into it.



Open Kali Linux, with default user name and password as 'Kali' and 'Kali'.

- Open Terminal and Download DVWA application from GitHub using command: **'sudo git clone https://www.github.com/digininja/DVWA'**
- Change the permissions to the folder DVWA using 'chmod' command.

```
┌──(kali㉿kali)-[/var/www/html]
└─$ sudo git clone https://github.com/digininja/DVWA
Cloning into 'DVWA' ...
^[[B^[[B^[[B^[[B^[[B^[[Bremote: Enumerating objects: 3990, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 3990 (delta 0), reused 3 (delta 0), pack-reused 3986
Receiving objects: 100% (3990/3990), 1.79 MiB | 1.31 MiB/s, done.
Resolving deltas: 100% (1858/1858), done.

┌──(kali㉿kali)-[/var/www/html]
└─$ sudo chmod -R 777 DVWA
```

Navigate to 'DVWA/Config/config.inc.php.dist' and make a copy with name 'config.inc.php'

- Now, Open 'config.inc.php' file in Nano Editor.

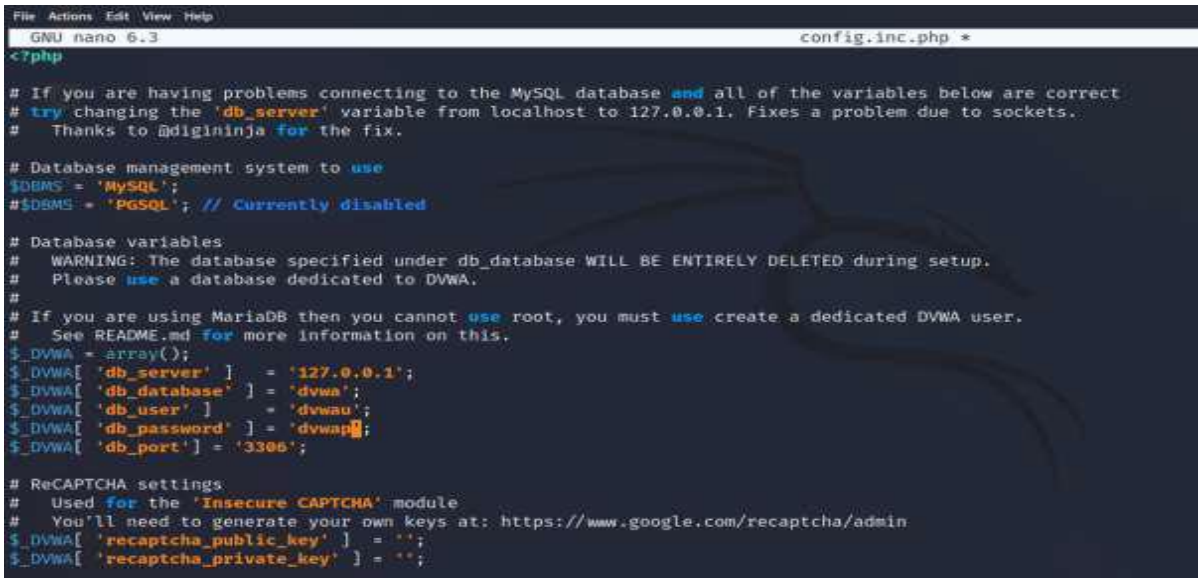
```
┌──(kali㉿kali)-[/var/www/html]
└─$ cd DVWA/config

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ ls
config.inc.php.dist

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo cp config.inc.php.dist config.inc.php

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo nano config.inc.php
```

After opening the file, check the username and password of DVWA application , Edit if you want.



Now, install MySql Server using following command:
'sudo apt install default-mysql-server'

- Now, start the service and check the status in SystemCTL.

Now, Open MySql Terminal and Create a DVWA user with past credentials and Grant him all privileges on DVWA folder.

- Now, Install PHP using following command: **'sudo apt install php'** Now,

```
┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.6.8-MariaDB-1 Debian buildd-unstable

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> create user 'dvwau'@'127.0.0.1' identified by 'dvwap';
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]> grant all privileges on DVWA.* to 'dvwau'@'127.0.0.1' identified by 'dvwap';
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> exit
Bye
```

Now, Install PHP using following command:

'sudo apt install php'

- Now, Install PHP extensions required.

'**sudo apt install php-{extension1,extension2,…}**

```
┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo apt install php
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
php is already the newest version (2:8.1+92+nmu1).
0 upgraded, 0 newly installed, 0 to remove and 1319 not upgraded.

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo apt install php-{imap,bcmath,bz2,intl,gd,mbstring,mysql,zip}
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
php-imap is already the newest version (2:8.1+92+nmu1).
php-bcmath is already the newest version (2:8.1+92+nmu1).
php-bz2 is already the newest version (2:8.1+92+nmu1).
php-intl is already the newest version (2:8.1+92+nmu1).
php-gd is already the newest version (2:8.1+92+nmu1).
php-mbstring is already the newest version (2:8.1+92+nmu1).
php-mysql is already the newest version (2:8.1+92+nmu1).
php-zip is already the newest version (2:8.1+92+nmu1).
0 upgraded, 0 newly installed, 0 to remove and 1319 not upgraded.

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ cd /etc/php/8.1

┌──(kali㉿kali)-[/etc/php/8.1]
└─$ ls
apache2  cli  mods-available
```

Now, Navigate to '**php/8.1/apache2**' folder and Open '**php.ini**' file in Nano editor.

- In that file, Make sure these two fields are set to be **On.**

allow_url_fopen

allow_url_include

```
;;;;;;;;;;;;;;;;;;
; Fopen wrappers ;
;;;;;;;;;;;;;;;;;;

; Whether to allow the treatment of URLs (like http:// or ftp://) as files.
; https://php.net/allow-url-fopen
allow_url_fopen = On

; Whether to allow include/require to open URLs (like https:// or ftp://) as files.
; https://php.net/allow-url-include
allow_url_include = On

; Define the anonymous ftp password (your email address). PHP's default setting
; for this is empty.
; https://php.net/from
;from="john@doe.com"

; Define the User-Agent string. PHP's default setting for this is empty.
; https://php.net/user-agent
;user_agent="PHP"

; Default timeout for socket based streams (seconds)
; https://php.net/default-socket-timeout

^G Help          ^O Write Out     ^W Where Is      ^K Cut           ^T Execute       ^C Location
^X Exit          ^R Read File     ^\ Replace       ^U Paste         ^J Justify       ^/ Go To Line
```

Now, Start the apache2 server and Check the status in systemCTL.

```
┌──(kali㉿kali)-[/etc/php/8.1/apache2]
└─$ sudo nano php.ini

┌──(kali㉿kali)-[/etc/php/8.1/apache2]
└─$ sudo service apache2 start

┌──(kali㉿kali)-[/etc/php/8.1/apache2]
└─$ systemctl status apache2
● apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; disabled; vendor preset: disabled)
     Active: active (running) since Thu 2022-11-24 06:01:19 EST; 5s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 4619 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 4636 (apache2)
      Tasks: 6 (limit: 2283)
     Memory: 22.4M
        CPU: 249ms
     CGroup: /system.slice/apache2.service
             ├─4636 /usr/sbin/apache2 -k start
             ├─4638 /usr/sbin/apache2 -k start
             ├─4639 /usr/sbin/apache2 -k start
             ├─4640 /usr/sbin/apache2 -k start
             ├─4641 /usr/sbin/apache2 -k start
             └─4642 /usr/sbin/apache2 -k start

Nov 24 06:01:19 kali systemd[1]: Starting The Apache HTTP Server...
Nov 24 06:01:19 kali apachectl[4635]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set the 'Ser>
Nov 24 06:01:19 kali systemd[1]: Started The Apache HTTP Server.
lines 1-20/20 (END)
```

Now, Open any browser and Go to Local Host:
'http://127.0.0.1/dvwa.login.php'

- Enter the Credentials, **admin** as username and **password** as password.