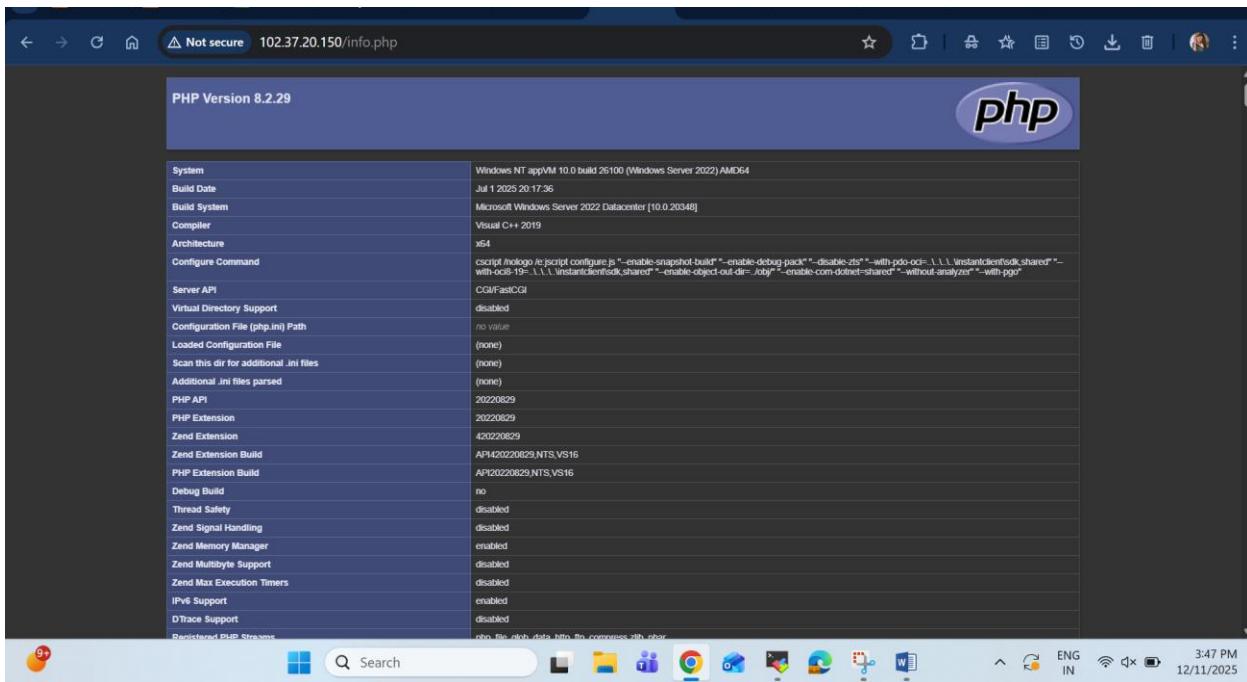


# **PHP + IIS + MySQL Setup (Windows Server)**

## Result :

<http://102.37.20.150/info.php>



<http://102.37.20.150/dbtest.php>



Enter Something

Type anything...

Submit

You entered: preeti

# RUNBOOK — PHP + IIS + MySQL Setup (Windows Server)

---

## 1. Install IIS

Server Manager → Add Roles & Features

- Web Server (IIS)
- Application Development → ✓ CGI  
(IMPORTANT for FastCGI)

### Troubleshoot

- If “FastCgiModule” missing → CGI was not installed → enable it.
- 

## 2. Install PHP

### 2.1 Download PHP ZIP

From windows.php.net  
Choose: **nts, vs16, x64**

## 2.2 Extract to

C:\php

## 2.3 Create php.ini

Copy:

php.ini-development → php.ini

## 2.4 Edit php.ini

Search & update:

```
extension_dir = "C:\php\ext"  
extension=mysqli  
extension=pdo_mysql
```

## Troubleshoot

- If mysqli\_connect() undefined → mysqli not enabled
  - If blank or 500 → install VC++ 2015–2022 runtime.
- 

# 3. Configure IIS for PHP

## 3.1 Add Module Mapping

IIS → Server → Handler Mappings → Add Module Mapping

```
Request Path: *.php  
Module: FastCgiModule  
Executable: C:\php\php-cgi.exe  
Name: PHP_via_FastCGI
```

Click **OK** → Yes

## 3.2 FastCGI Settings

Add:

```
PHPRC = C:\php
```

## **Restart IIS**

```
iisreset
```

## **Troubleshoot**

- If php-cgi.exe not visible → change filter to "All Files".
- 

## **4. Test PHP**

Create:

```
C:\inetpub\wwwroot\info.php
```

Code:

```
<?php phpinfo(); ?>
```

Open:

```
http://<IP>/info.php
```

Should show PHP info.

---

## **5. Install MySQL**

Download full installer (558 MB).

Setup:

- Server Only
  - Port: 3306
  - Root pass: Pass@123
- 

## **6. Create DB + User**

Run in MySQL:

```
CREATE DATABASE webdb;
CREATE USER 'webuser'@'%' IDENTIFIED BY 'Pass@123';
```

```
GRANT ALL PRIVILEGES ON webdb.* TO 'webuser'@'%';
FLUSH PRIVILEGES;
```

---

## 7. PHP to MySQL Connectivity Test

Create file:

```
dbtest.php
```

Code:

```
<?php
$c = mysqli_connect("localhost", "webuser", "Pass@123", "webdb");
if (!$c) { die("Connection failed: " . mysqli_connect_error()); }
echo "Connected Successfully!";
?>
```

Open:

```
http://<IP>/dbtest.php
```

### Troubleshoot

- “undefined function mysqli” → php.ini wrong
  - “access denied” → wrong MySQL user
  - “cannot connect” → MySQL not running
- 

## 8. Simple Input → Output App

Create:

```
form.php
<form method="POST">
    <input type="text" name="mytext">
    <button>Submit</button>
</form>
<?php
if($_POST) {
    echo "You entered: ".$_POST["mytext"];
}
?>
```

---

## 9. Full PHP + MySQL Mini-App

Create:

```
app.php
<?php
$conn=mysqli_connect("localhost","webuser","Pass@123","webdb");

if($_SERVER["REQUEST_METHOD"]=="POST") {
    $msg=$_POST["message"];
    mysqli_query($conn,"INSERT INTO messages(user_input) VALUES ('$msg')");
}
?>
<form method="POST">
<input type="text" name="message" required>
<button>Save</button>
</form>
<hr>
<h3>Saved Messages:</h3>
<?php
$r=mysqli_query($conn,"SELECT * FROM messages ORDER BY id DESC");
while($row=mysqli_fetch_assoc($r)){
    echo $row['id']."' - ".$row['user_input']."<br>";
}
?>
```

---

## 10. Database Table

Run:

```
CREATE TABLE messages (
    id INT AUTO_INCREMENT PRIMARY KEY,
    user_input VARCHAR(255),
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

---

## 11. Common Troubleshooting

### PHP

- 500 error → install VC++ Redistributable
- PHP downloading instead of running → no FastCGI mapping
- mysqli undefined → extension not enabled

### MySQL

- Access denied → wrong GRANT
- Timeout → port 3306 blocked
- No changes → wrong database

## IIS

- 404 → file not in wwwroot
  - 403 → permissions
  - php-cgi.exe missing → PHP not extracted correctly
- 

## 12. DR READY NOTES (Azure Secondary Region)

- Create same VM in Azure region B
- Install IIS + PHP same way
- Install MySQL
- Copy PHP app to region B
- Setup MySQL Replication OR manual dump
- App can run in DR automatically