





# Information Technology for Logistics

# Part 1: Web Application (PHP)

Example: <https://pm1-ct102-web.iecmu.com>

# LEMP Stack

The **LEMP stack** is a web hosting stack alternative to LAMP, where Apache is replaced with **Nginx (pronounced Engine-X)**:

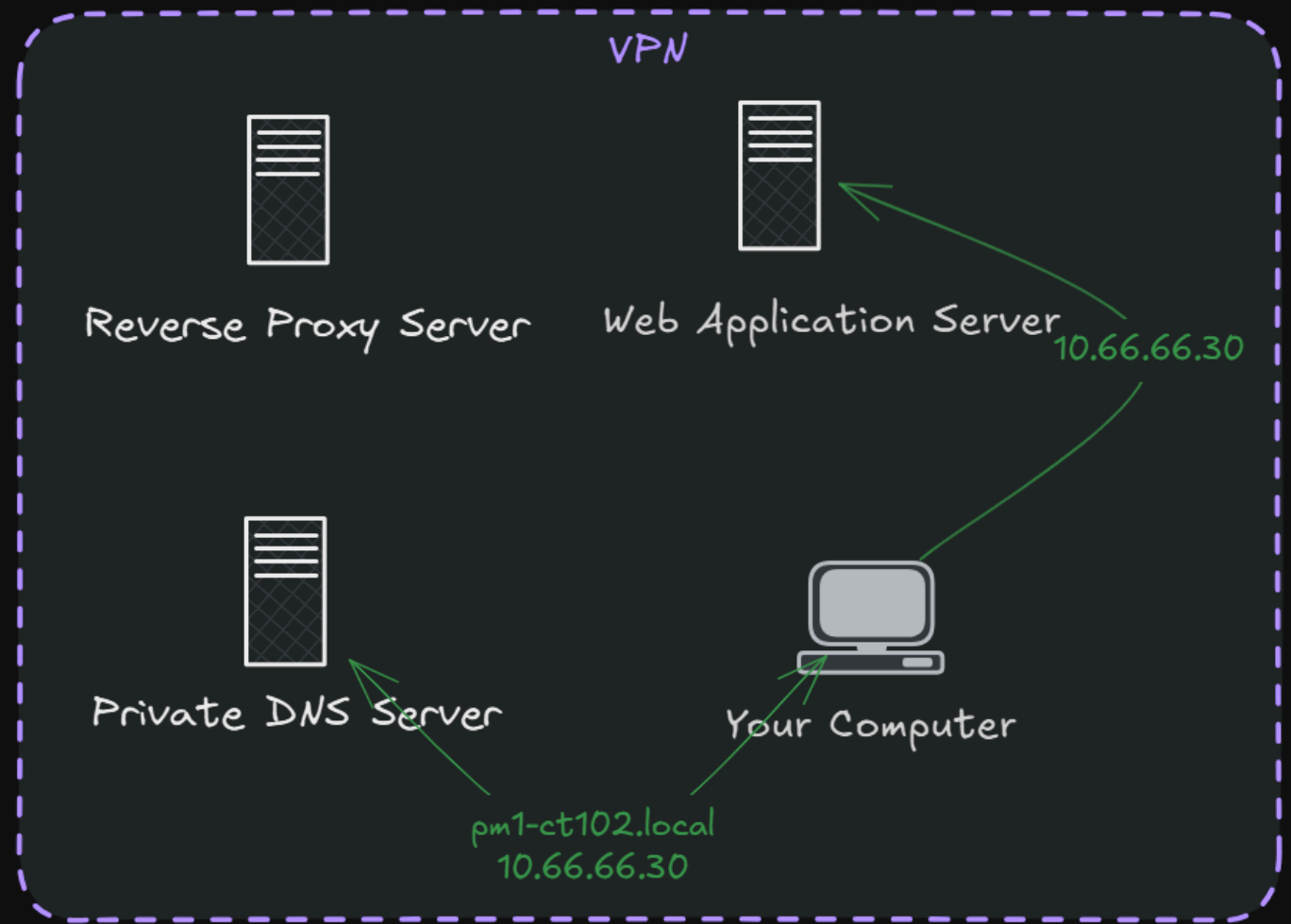
-  **Linux** – operating system
-  **Nginx** – web server
-  **MariaDB** – database engine (MySQL compatible)
-  **PHP-FPM** – processes dynamic content

# Guides

- [Nginx](#)
- [MariaDB](#)
- [PHP](#)
- [Web Service](#)

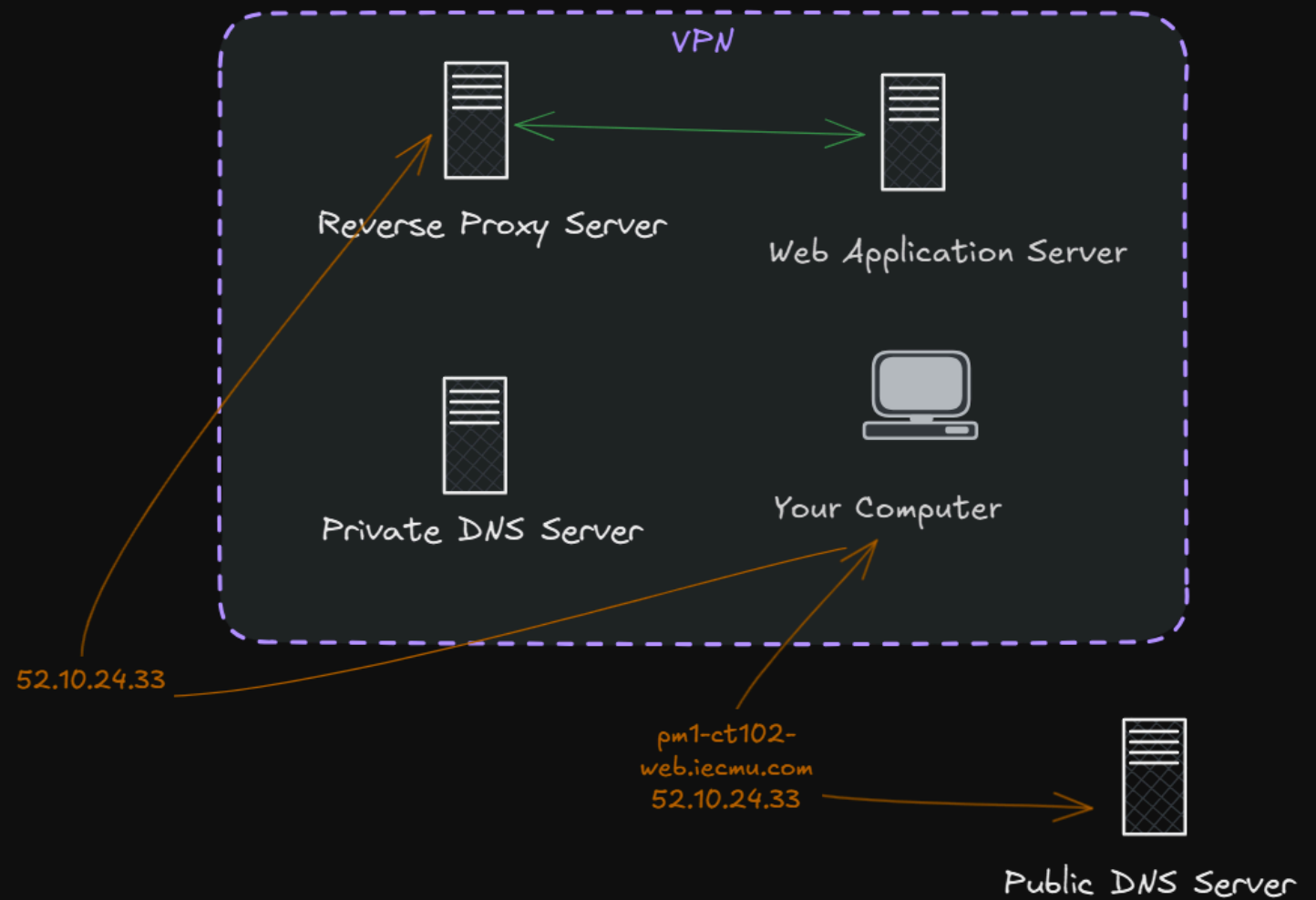
# Using Local URL

pm1-ct102.local



# Using Public URL

pm-ct102-web.iecmu.com



**Let's make a bookstore website**

# Setup Database

```
CREATE DATABASE IF NOT EXISTS iebookstore;
```



# Setup Database

```
CREATE TABLE IF NOT EXISTS iebookstore.booklist (  
    isbn VARCHAR(20) PRIMARY KEY,  
    title VARCHAR(255) NOT NULL  
);  
  
CREATE TABLE IF NOT EXISTS iebookstore.orderdetail (  
    orderID INT AUTO_INCREMENT PRIMARY KEY,  
    isbn VARCHAR(20) NOT NULL,  
    quantity INT NOT NULL,  
    FOREIGN KEY (isbn) REFERENCES iebookstore.booklist(isbn)  
);
```

# Setup Database

```
INSERT INTO iebookstore.booklist
    (isbn,
     title)
VALUES
    ('9780135166307',
     'Clean Code'),
    ('9781491957660',
     'Fluent Python'),
    ('9780132350884',
     'Clean Architecture');
```

# PHP

- `index.php`
- `booklist.php`
- `bookadd.php`
- `orderlist.php`
- `orderadd.php`