🚀 LEMP + AWS S3 File Upload Project

This project demonstrates a PHP web application running on a LEMP (Linux, Nginx, MySQL, PHP) stack, allowing users to upload files that are stored in an Amazon S3 bucket. File metadata (name and URLs) is stored in a MySQL database, and CloudFront URLs are optionally generated for faster file delivery.

📦 Features
- Upload files through a web form
- Store files in AWS S3
- Generate public S3 and CloudFront URLs
- Save metadata to MySQL
- Runs on a LEMP stack (Linux + Nginx + MySQL + PHP)
- Uses AWS SDK for PHP via Composer

- a working `index.html` form file,
- the modified `upload.php` with actual AWS code,
- or deployment on a remote EC2 server.

Here's a simple step-by-step list for setting up your LEMP + AWS S3 File Upload Project:

✅ Simple Steps Overview
Install LEMP stack

sudo apt update
sudo apt install nginx mysql-server php-fpm php-mysql php-cli curl unzip
Create MySQL database and table

CREATE DATABASE facebook;
USE facebook;
CREATE TABLE posts (id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255), s3url VARCHAR(512),cfurl VARCHAR(512), created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP);

Install Composer

sudo curl -sS https://getcomposer.org/installer | php
sudo mv composer.phar /usr/local/bin/composer
sudo ln -s /usr/local/bin/composer /usr/bin/composer
Install AWS SDK for PHP

composer require aws/aws-sdk-php

Set up your project folder
Place index.html (upload form)
Place upload.php (handles upload & AWS)
Include vendor/ (created by Composer)
Update upload.php

Load AWS SDK

Configure:
AWS access key & secret
S3 bucket name
Region
CloudFront base URL
 # Set root to your project folder
sudo systemctl restart nginx

Visit http://localhost
Fill form and upload a file
File uploads to S3
Metadata saved to MySQL