**PHP - s3 configuration**

Create a file in /var/www/html as **composer.json**

Write the below content in composer.json

{

"require": {

"aws/aws-sdk-php": "^3.0"

}

}

**Execute below commands to install the required packages**

dnf install php-cli

dnf install php-json

php -r "copy('<https://getcomposer.org/installer>', 'composer-setup.php');"

php composer-setup.php

php -r "unlink('composer-setup.php');"

mv composer.phar /usr/local/bin/composer

composer install

**PHP code (document upload in s3)**

<!DOCTYPE html>

<html>

<head>

<title>User Data Collection with S3 Upload</title>

</head>

<body>

<?php

require 'vendor/autoload.php';

use Aws\S3\S3Client;

use Aws\S3\Exception\S3Exception;

// MySQL database configuration

$servername = "database ip";

$username = "db user";

$password = "user pswd";

$dbname = "db name";

// AWS S3 configuration

$bucketName = 'your-bucket-name';

$region = 'your-region';

$accessKeyId = 'your-access-key-id';

$secretAccessKey = 'your-secret-access-key';

// Create a database connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

// Collect user data

$name = $\_POST["name"];

$age = $\_POST["age"];

$country = $\_POST["country"];

// Validate input

if (!empty($name) && !empty($age) && !empty($country)) {

// Insert data into the MySQL database using prepared statements to prevent SQL injection

$stmt = $conn->prepare("INSERT INTO users (name, age, country) VALUES (?, ?, ?)");

$stmt->bind\_param("sis", $name, $age, $country); // "s" for string, "i" for integer

if ($stmt->execute()) {

echo "User data has been successfully stored in the database.<br>";

} else {

echo "Error: " . $stmt->error;

}

$stmt->close();

} else {

echo "All fields are required.<br>";

}

// Upload file to AWS S3

if (isset($\_FILES['userfile']) && $\_FILES['userfile']['error'] == UPLOAD\_ERR\_OK) {

$fileTmpPath = $\_FILES['userfile']['tmp\_name'];

$fileName = basename($\_FILES['userfile']['name']);

// Initialize S3 client

$s3Client = new S3Client([

'version' => 'latest',

'region' => $region,

'credentials' => [

'key' => $accessKeyId,

'secret' => $secretAccessKey,

]

]);

try {

// Upload file to the specified bucket

$result = $s3Client->putObject([

'Bucket' => $bucketName,

'Key' => 'uploads/' . $fileName,

'SourceFile' => $fileTmpPath,

'ACL' => 'public-read', // File will be publicly accessible

]);

echo "File successfully uploaded to S3.<br>";

echo "File URL: " . $result['ObjectURL'] . "<br>";

} catch (S3Exception $e) {

echo "There was an error uploading the file to S3.<br>";

echo $e->getMessage();

}

} else {

echo "Please select a file to upload.<br>";

}

}

// Close the database connection

$conn->close();

?>

<h2>Enter User Information</h2>

<form method="post" enctype="multipart/form-data">

Name: <input type="text" name="name" required><br>

Age: <input type="number" name="age" required><br>

Country: <input type="text" name="country" required><br>

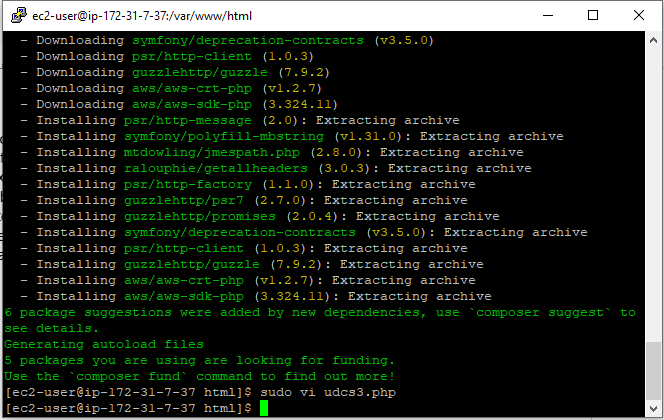
File Upload: <input type="file" name="userfile" required><br>

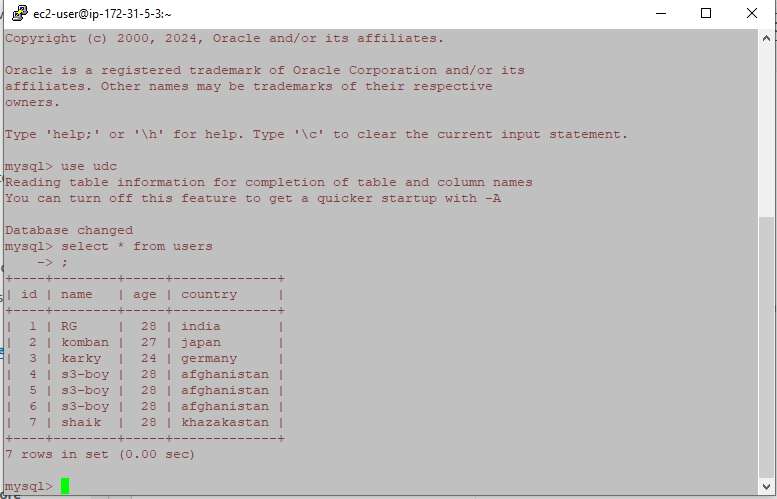
<input type="submit" value="Submit">

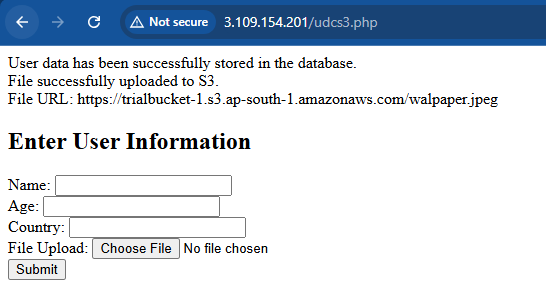
</form>

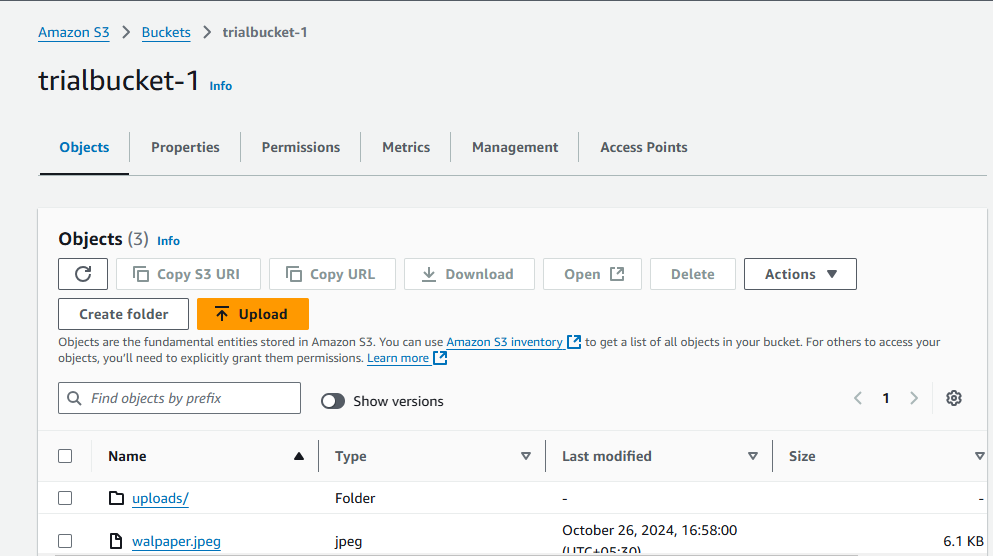
</body>

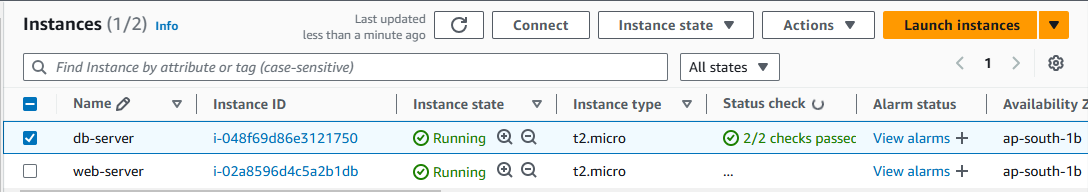
</html>











**NOTE:**

Enable ssh and http port in web server instance ( to open a instance in putty and run a webpage)

Enable ssh and mysql port in dbserver instance ( to open instance in putty and to connect with mysql)