

Software Requirements

Introduction:

This document outlines the requirements and dependencies for setting up a server environment suitable for running legacy PHP-based web applications. The setup includes the installation of PHP 5.6, MySQL client, and the necessary PHP extensions to interact with MySQL databases.

System Overview:

The system is designed to support web applications that require PHP version 5.6. This version is needed to maintain compatibility with legacy codebases that have not been updated to work with newer versions of PHP.

System Requirements:

Operating System: Ubuntu 16.04 or later (LTS versions recommended)

Hardware Requirements:

CPU: 1GHz or faster

RAM: 2GB minimum

Disk Space: At least 10GB of free space

Dependencies:

Software Dependencies:

APT package manager (commonly available on Ubuntu systems)

Sudo privileges for the installing user

Installation Instructions:

Add the PHP 5.6 Repository:

Command: `sudo add-apt-repository -y ppa:ondrej/php`

Description: Adds the Ondřej Surý PPA to the system's software sources to access PHP 5.6 packages.

Expected Output: The system will acknowledge that the repository has been successfully added.

Update the Package List:

Command: `sudo apt update`

Description: Refreshes the repository index to ensure the latest packages from newly added repositories are recognized.

Expected Output: The system will list the packages that are fetched.

Install PHP 5.6 and MySQL Client:

Command: `sudo apt install php5.6 mysql-client php5.6-mysqli -y`

Description: Installs PHP 5.6, the MySQL client, and the MySQLi extension for PHP. These are essential for running and managing PHP-based applications that interact with MySQL databases.

Expected Output: The system will list each package that is installed along with its version.

Configuration and Setup:

After installation, configure the PHP and MySQL settings as required by the application.

Ensure that the PHP modules are correctly enabled by checking the output of `php -m`.

Additional PHP extensions may be required depending on the application's needs.

Maintenance and Support:

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Regular updates should be applied to the installed packages through `sudo apt update` and `sudo apt upgrade` to maintain security and stability.

Support for PHP 5.6 is limited since it is a deprecated version. It is recommended to plan for an upgrade to a supported version of PHP in the future.