Title: Setting up Magento 2 on Ubuntu: Challenges and Process

# Introduction:

Magento 2 is a powerful and popular open-source e-commerce platform that provides a flexible and scalable solution for online businesses. Setting up Magento 2 on Ubuntu can be a rewarding but challenging process due to various dependencies and configurations required. This report outlines the challenges faced and the step-by-step process to successfully install Magento 2 on an Ubuntu server.

Challenges:

# System Requirements:

• Magento 2 has specific system requirements, including PHP version, database requirements (MySQL or MariaDB), and other dependencies. Ensuring that your Ubuntu server meets these requirements is crucial for a smooth installation.

# Web Server Configuration:

• Configuring the web server (commonly Apache or Nginx) to work seamlessly with Magento 2 can be challenging. Properly setting up server directives, permissions, and virtual hosts is essential.

# Composer Installation:

• Magento 2 utilizes Composer for package management. Installing and configuring Composer on Ubuntu may pose challenges for users unfamiliar with this tool.

# PHP Extensions and Settings:

• Magento 2 relies on specific PHP extensions and configurations. Ensuring that these are installed and properly configured can be a stumbling block during the setup.

# Database Configuration:

• Configuring and connecting Magento 2 with a MySQL or MariaDB database requires attention to detail. Creating a database, user, and configuring access permissions are critical steps in this process.

# SSL/TLS Configuration:

• For security reasons, it's recommended to set up Magento 2 with HTTPS. Configuring SSL/TLS certificates and ensuring secure communication can be complex, especially for users new to this aspect.