# ICT171 Assignment 2 - Server Documentation

## Student Details

Name: Arshdeep Singh

Student Number: (35555228)

Domain: blogforu.cc

Server IP: 134.199.167.0

## 1. Project Overview

This project is a personal blog website hosted using WordPress. The server was manually configured on a cloud virtual machine running Ubuntu 22.04. The site is publicly accessible at blogforu.cc and was configured using a LAMP stack (Linux, Apache, MySQL, PHP).

## 2. Server Setup Steps

The following steps were used to install and configure the WordPress blog manually:

1. Provisioned a VM on the cloud (Ubuntu 22.04)  
2. Updated the system using: sudo apt update && sudo apt upgrade  
3. Installed Apache using: sudo apt install apache2  
4. Installed MySQL and configured database for WordPress  
5. Installed PHP and required extensions  
6. Downloaded and extracted WordPress to /var/www/html  
7. Set file permissions and ownership for Apache  
8. Configured Apache virtual host for the domain blogforu.cc  
9. Enabled site and modules, restarted Apache  
10. Completed WordPress setup via browser

## 3. DNS Configuration

The domain blogforu.cc was linked to the server IP using Cloudflare DNS. Two A records were added:  
 - blogforu.cc → 134.199.167.0  
 - www → 134.199.167.0

## 4. SSL Certificate

Let's Encrypt SSL was configured using Certbot. This enables HTTPS access to the blog. Commands used:  
sudo apt install certbot python3-certbot-apache  
sudo certbot --apache

## 5. Sample Setup Script (Optional)

A simplified bash script can be created to automate WordPress installation for rebuilding.

## 6. GitHub Repository

The GitHub repository includes:  
- README.md  
- Set up the command list  
- Server screenshots  
- server\_documentation.pdf

## 7. Rebuild Instructions

To recreate this server in under one hour:  
1. Create a new Ubuntu VM  
2. Run all commands from the setup\_commands.txt file  
3. Reapply domain and SSL settings  
4. Complete the browser-based WordPress setup

## 8. References

- https://wordpress.org  
- https://ubuntu.com  
- https://www.digitalocean.com/docs/  
- https://certbot.eff.org/  
- https://cloudflare.com