

# ICT171 Assignment 2 – Cloud Server Project & Documentation

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Date: 2025-06-08

Project Title : Real Estate Website

Website URL : <https://djrealestate.online>

Global IP : 170.64.231.247

## Project Overview

The design, implementation, and documentation of a cloud-based server that houses a WordPress website for a made-up real estate company are the tasks involved in this project. The server is protected with SSL/TLS encryption, hosted on DigitalOcean, and set up with Infrastructure as a Service (IaaS). This project aims to show off practical expertise in web application deployment, DNS setup, backup scripting, and Linux server administration in a cloud setting.

### Technology Stack

- **Cloud Provider:** DigitalOcean
- **Operating System:** Ubuntu 22.04 LTS (64-bit)
- **Web Server:** Apache2
- **Database:** MySQL
- **Scripting Language:** Bash
- **CMS:** WordPress (manual installation)
- **Security:** SSL/TLS with Let's Encrypt
- **Version Control:** GitHub

## Infrastructure as a Service(IaaS)

A type of cloud computing known as Infrastructure as a Service (IaaS) offers virtualised computer infrastructure, such as servers, networking, storage, and operating systems, via the internet. IaaS allows users to maintain complete control over the server environment while the provider takes care of the physical hardware underneath.

DigitalOcean served as the IaaS provider for this project. SSH was used to manually provision and access a virtual machine (Droplet). The student showed complete control

of the infrastructure configuration by installing and configuring all necessary software components, including Apache, PHP, MySQL, and WordPress.

## Intended Audience

This documentation is meant for students, instructors, and ICT personnel who might want to duplicate the server configuration for educational or real-world deployment purposes. The instructions and structure are written in a straightforward, copy-paste-friendly manner, according to technical documentation best practices. In the event that a complete server rebuild is required, it also acts as a disaster recovery reference.

## Server Access Info

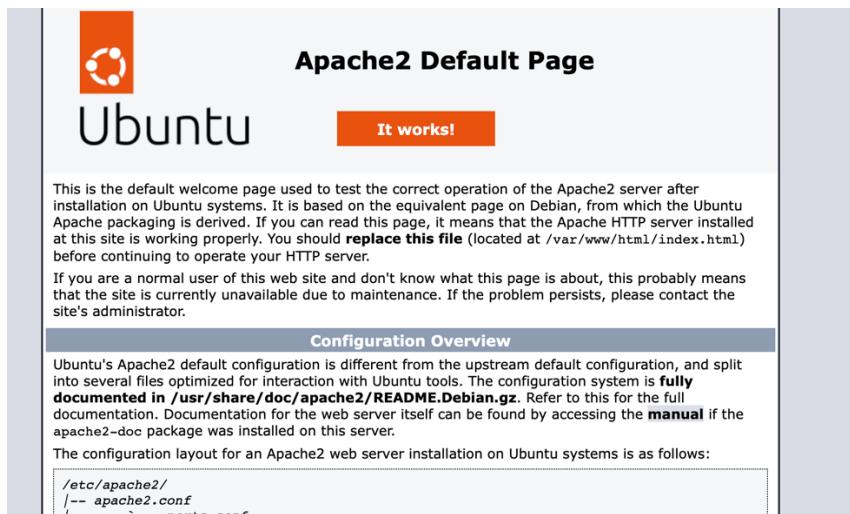
- Global IP Address\*\*: 170.64.231.247
- Domain Name\*\*: <http://djrealestate.online> <https://www.djrealestate.online>
- Platform\*\*: DigitalOcean (IaaS)
- Operating System\*\*: Ubuntu 22.04 (64-bit)

## Step-by-Step Server Setup

### 1. Create Droplet

- Platform: DigitalOcean
- OS: Ubuntu 22.04
- Size: Basic (1GB RAM)
- SSH enabled



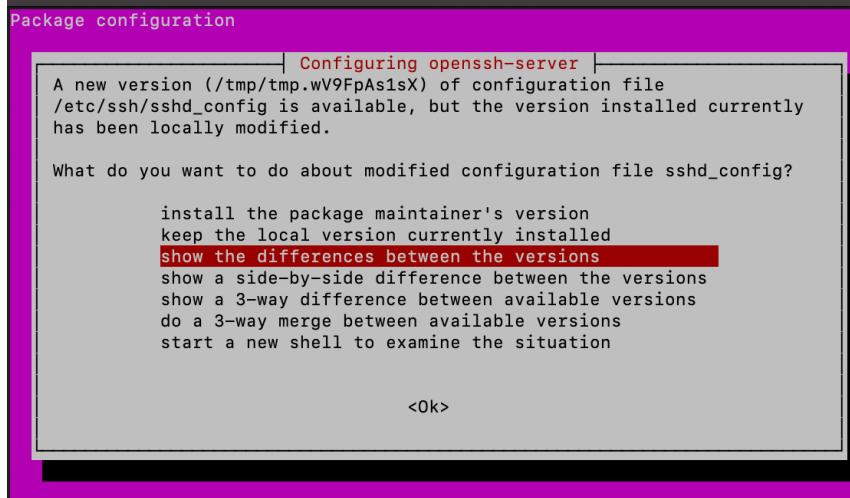


## 2. SSH Access (commands)

- bash
- ssh root@170.64.231.247

## 3. Update & Install Packages (commands)

- bash
- apt update && apt upgrade -y
- apt install apache2 mysql-server php libapache2-mod-php php-mysql unzip wget -y



## 4. Start Services (commands)

- bash
- systemctl start apache2
- systemctl enable apache2

## 5. Configure Firewall (commands)

- bash
- ufw allow 'Apache'
- ufw allow OpenSSH
- ufw enable

```
systemctl status apache2
Synchronizing state of apache2.service with SysV service script with /usr/lib/sy
stemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: >
   Active: active (running) since Sun 2025-06-08 13:09:29 UTC; 2min 37s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 31948 (apache2)
      Tasks: 6 (limit: 509)
     Memory: 11.0M (peak: 11.4M)
        CPU: 81ms
      CGroup: /system.slice/apache2.service
          ├─31948 /usr/sbin/apache2 -k start
          ├─31951 /usr/sbin/apache2 -k start
          ├─31952 /usr/sbin/apache2 -k start
          ├─31953 /usr/sbin/apache2 -k start
          ├─31954 /usr/sbin/apache2 -k start
          └─31956 /usr/sbin/apache2 -k start

Jun 08 13:09:29 djrealestate-server systemd[1]: Starting apache2.service - The >
Jun 08 13:09:29 djrealestate-server apachectl[31947]: AH00558: apache2: Could n>
Jun 08 13:09:29 djrealestate-server systemd[1]: Started apache2.service - The A>
lines 1-19/19 (END)
```

```
Active: active (running) since Sun 2025-06-08 13:09:29 UTC; 2min 37s ago
  Docs: https://httpd.apache.org/docs/2.4/
 Main PID: 31948 (apache2)
    Tasks: 6 (limit: 509)
   Memory: 11.0M (peak: 11.4M)
      CPU: 81ms
     CGroup: /system.slice/apache2.service
         ├─31948 /usr/sbin/apache2 -k start
         ├─31951 /usr/sbin/apache2 -k start
         ├─31952 /usr/sbin/apache2 -k start
         ├─31953 /usr/sbin/apache2 -k start
         ├─31954 /usr/sbin/apache2 -k start
         └─31956 /usr/sbin/apache2 -k start

Jun 08 13:09:29 djrealestate-server systemd[1]: Starting apache2.service
Jun 08 13:09:29 djrealestate-server apachectl[31947]: AH00558: apache2:
Jun 08 13:09:29 djrealestate-server systemd[1]: Started apache2.service
```

## MySQL Configuration (commands)

- bash
- mysql
  
- sql
- CREATE DATABASE wpdb;
- CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'StrongPass123!';

```
- GRANT ALL PRIVILEGES ON wpdb.* TO 'wpuser'@'localhost';
- FLUSH PRIVILEGES;
- EXIT;
```

```
Jun 08 13:56:32 djrealestate-server systemd[1]: Starting mysql.service - MySQL >
Jun 08 13:56:34 djrealestate-server systemd[1]: Started mysql.service - MySQL C]>
root@djrealestate-server:/tmp# mysql
]Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.42-0ubuntu0.24.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

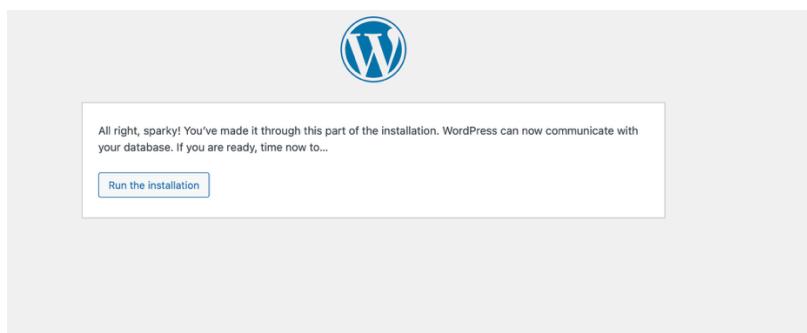
```
~
root@djrealestate-server:~# ufw allow 'Apache'
Rules updated
Rules updated (v6)
root@djrealestate-server:~# ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? █
```

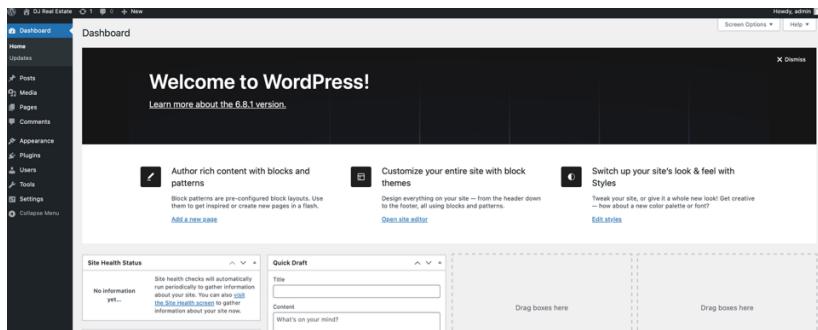
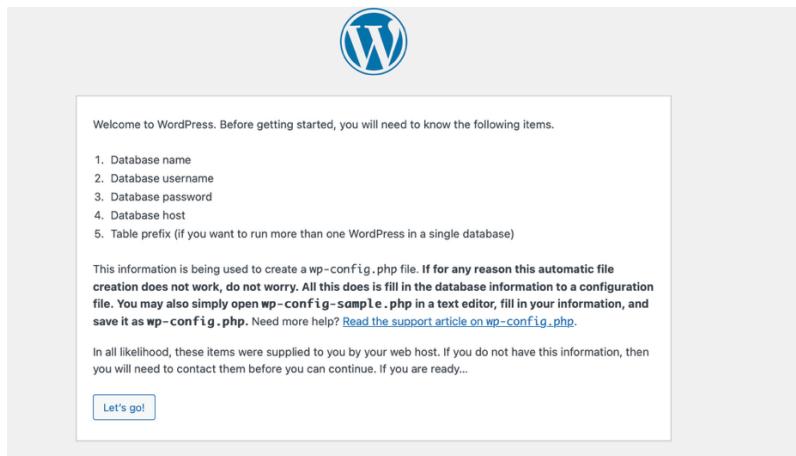
## 6. Install WordPress (commands)

```
- bash
- cd /tmp
- wget https://wordpress.org/latest.tar.gz
- tar -xvzf latest.tar.gz
- rsync -av wordpress/ /var/www/html/
- chown -R www-data:www-data /var/www/html/
- chmod -R 755 /var/www/html/
- rm /var/www/html/index.html
```

## WordPress Setup

→ Visit: <http://djrealestate.online>  
→ Setup Wizard: Language, DB credentials, site title, admin user  
→ Admin Panel: <http://djrealestate.online/wp-admin>





## Domain Name Configuration

- Domain Provider: namecheap.com
- 1st of all I bought a matching domain name for my web page topic
- then I link my ip address of what gave me on digital ocean
- log in to my portal in namecheap
- click advance DNS
- click add new record
- DNS A Record:
  - Host: @
  - Type: A
  - value : 170.64.231.247
- And again another add new record
- Host: www
  - Type: A record
  - value : 170.64.231.247

The screenshot shows the Namecheap dashboard with the 'Domain List' selected. Under 'Domains', the details for 'djrealestate.online' are shown. The 'Advanced DNS' tab is active, displaying the current DNS records:

Type	Host	Value	TTL
A Record	@	170.64.231.247	Automatic
A Record	www	170.64.231.247	Automatic

## → SSL/TLS Certificate Installation

- Update the Server and Install Certbot

```
sudo apt update
sudo apt install certbot python3-certbot-apache -y
```

- Run Certbot to Obtain the SSL Certificate

```
sudo certbot --apache
```

- When prompted, I selected both:

1: djrealestate.online  
 2: <https://djrealestate.online>

- Redirect HTTP to HTTPS

Please choose whether or not to redirect HTTP traffic to HTTPS:

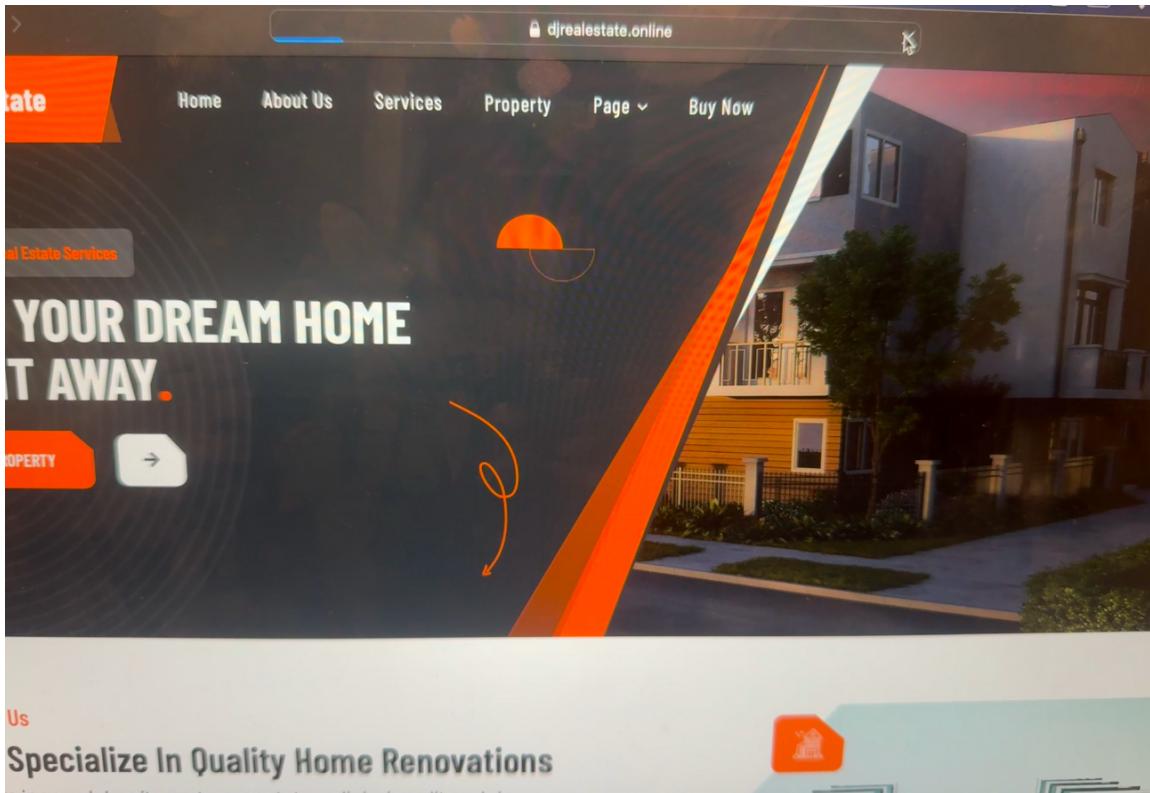
1: No redirect  
 2: Redirect - Make all requests go to HTTPS

- Selected

Option 2

- Result Verification

I opened both <https://djrealestate.online> and <https://www.djrealestate.online> in the browser. Both showed a  **secure padlock** in the address bar, confirming the SSL certificate is working.



## Scripting Component

### 1. backup.sh – WordPress File Backup Script

**Purpose:** Creates a compressed .tar.gz archive of the /var/www/html directory (WordPress files) for manual backup.

**Location:** /root/backup.sh

**Usage:** sudo /root/backup.sh

**Output:** /root/wp\_backup\_YYYY-MM-DD.tar.gz

```
#!/bin/bash
# WordPress backup script
BACKUP_FILE="/root/wp_backup_$(date +%F).tar.gz"
SOURCE_DIR="/var/www/html"
tar -czvf "$BACKUP_FILE" "$SOURCE_DIR"
echo "Backup completed: $BACKUP_FILE"
```

## 2. update.sh – System Auto-Updater

**Purpose:** Automatically updates and upgrades the server's package list and security updates.

**Location:** /root/update.sh

**Usage:** sudo /root/update.sh

```
#!/bin/bash
# Automatically update and upgrade system packages
echo "Starting system update..."
apt update && apt upgrade -y
echo "System update completed on $(date)"
```

```
#!/bin/bash
# Automatically update and upgrade system packages

echo "Starting system update..."
apt update && apt upgrade -y
echo "System update completed on $(date)"
```

```
Get:14 http://mirrors.digitalocean.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:15 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [868 kB]
Get:16 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [2 1.6 kB]
Get:17 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.2 kB]
Get:18 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:19 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Fetched 3000 kB in 6s (481 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
System update completed on Wed Jun 11 17:15:59 UTC 2025
root@djrealestate-server:~#
```

## 3. check\_ssl.sh – SSL Certificate Expiry Checker

**Purpose:** Checks the expiry date of the SSL certificate for djrealestate.online.

**Location:** /root/check\_ssl.sh  
**Usage:** sudo /root/check\_ssl.sh

```
#!/bin/bash
# Check SSL certificate expiry for your domain
DOMAIN="djrealestate.online"
echo "Checking SSL expiry for $DOMAIN..."
echo | openssl s_client -servername $DOMAIN -connect $DOMAIN:443 2>/dev/null \
| openssl x509 -noout -dates
```



The terminal window shows the command being run: `./check_ssl.sh`. The output of the script is displayed, showing the SSL expiry information for the domain `djrealestate.online`.

#### 4. db\_backup.sh – WordPress MySQL Database Backup

**Purpose:** Creates a .sql backup of the wpdb database into /root/db\_backups/

**Location:** /root/db\_backup.sh  
**Usage:** sudo /root/db\_backup.sh  
**Output:** /root/db\_backups/wpdb\_YYYY-MM-DD.sql

```
#!/bin/bash
# Backup WordPress MySQL database
DB_USER="wpuser"
DB_PASS="StrongPass123!"
DB_NAME="wpdb"
BACKUP_PATH="/root/db_backups"
FILENAME="wpdb_$(date +%F).sql"

mkdir -p "$BACKUP_PATH"
mysqldump -u $DB_USER -p$DB_PASS $DB_NAME > "$BACKUP_PATH/$FILENAME"
echo "Database backup completed: $FILENAME"
```

#### 5. db\_backup.sh Script (MySQL Backup)

```
GNU nano 7.2                               /root/db_backup.sh *
#!/bin/bash
# Backup WordPress MySQL database

DB_USER="wpuser"
DB_PASS="StrongPass123!"
DB_NAME="wpdb"
BACKUP_PATH="/root/db_backups"
FILENAME="wpdb_$(date +%F).sql"

mkdir -p "$BACKUP_PATH"
mysqldump -u $DB_USER -p$DB_PASS $DB_NAME > "$BACKUP_PATH/$FILENAME"

echo "Database backup completed: $FILENAME"
```

```
root@djrealestate-server:~# nano /root/db_backup.sh
root@djrealestate-server:~# chmod +x /root/db_backup.sh
root@djrealestate-server:~# sudo /root/db_backup.sh
mysqldump: [Warning] Using a password on the command line interface can be insec
ure.
mysqldump: Error: 'Access denied; you need (at least one of) the PROCESS privile
ge(s) for this operation' when trying to dump tablespaces
Database backup completed: wpdb_2025-06-11.sql
root@djrealestate-server:~#
```

```
root@djrealestate-server:~# ls /root/db_backups/
wpdb_2025-06-11.sql
root@djrealestate-server:~#
```

→ This is my GIT HUB account

The screenshot shows a GitHub repository page for 'ict171-assignment2'. At the top, there's a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the navigation bar, the repository name 'ict171-assignment2' is displayed, along with a public status badge. A search bar and a 'Code' button are also present. The main content area shows a file tree with 'main' (1 branch, 0 tags), a commit from 'Dilmik425' creating 'README.md' 2 days ago, and another commit from 'Create README.md' 2 days ago. A 'README' section is expanded, containing project details: Student Name: J.M. Dilmika Thathsarana, Student Number: 35485605, Project Name: Real Estate Agency Website using WordPress, IP Address: 170.64.231.247, and Domain Name: <http://djrealestate.online>. To the right, there's an 'About' section with a note about no description, website, or topics provided, and sections for Readme, Activity, Stars (0), Watching (0), Forks (0), Releases (no releases published), and Packages (no packages published).

The screenshot shows the GitHub sidebar menu. It includes links for Home, Issues, Pull requests, Projects, Discussions, Codespaces, Copilot, Explore, and Marketplace. Below the menu, there's a 'Repositories' section showing 'Dilmik425/ict171-assignment2'. At the bottom, there are copyright notices for GitHub, Inc. and links for About, Blog, Terms, Privacy, Security, Status, Do not share my personal information, and Manage Cookies.

→ GitHub Repo & Video

- GitHub Repo: <https://github.com/Dilmik425/ict171-assignment2.git>
- Video Explainer: [https://drive.google.com/file/d/1dN7P-ok4lWqWkg4QUI5J5IHS8QxXpyfI/view?usp=share\\_link](https://drive.google.com/file/d/1dN7P-ok4lWqWkg4QUI5J5IHS8QxXpyfI/view?usp=share_link)

## →Screenshots

```
Setting up ubuntu-standard (1.539.2) ...
Setting up liblvm2cmd2.03:amd64 (2.03.16-3ubuntu3.2) ...
Setting up dmeventd (2:1.02.185-3ubuntu3.2) ...
dm-event.service is a disabled or a static unit not running, not starting it.
Setting up python3-distupgrade (1:24.04.26) ...
Setting up lvm2 (2.03.16-3ubuntu3.2) ...
Setting up apport (2.28.1-0ubuntu3.6) ...
apport-autoreport.service is a disabled or a static unit not running, not starting it.
Setting up ubuntu-release-upgrader-core (1:24.04.26) ...
Setting up python3-update-manager (1:24.04.12) ...
Setting up apport-core-dump-handler (2.28.1-0ubuntu3.6) ...
Setting up update-manager-core (1:24.04.12) ...
Setting up update-notifier-common (3.192.68.2) ...
update-notifier-download.service is a disabled or a static unit not running, not starting it.
update-notifier-motd.service is a disabled or a static unit not running, not starting it.
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for systemd (255.4-1ubuntu8.6) ...
Processing triggers for man-db (2.12.0-4build2) ...

[Progress: [ 98%] [#####
#] ]
```

```
ESC-{ LeftArrow * Left one half screen width (or N positions).
ESC-} ^RightArrow Right to last column displayed.
ESC-{ ^LeftArrow Left to first column.
F Forward forever; like "tail -f".
ESC-F Like F but stop when search pattern is found.
r ^R ^L Repaint screen.
R Repaint screen, discarding buffered input.

-----
Default "window" is the screen height.
Default "half-window" is half of the screen height.
```

## SEARCHING

```
/pattern * Search forward for (N-th) matching line.
?pattern * Search backward for (N-th) matching line.
n * Repeat previous search (for N-th occurrence).
N * Repeat previous search in reverse direction.
ESC-n * Repeat previous search, spanning files.
ESC-N * Repeat previous search, reverse dir. & spanning files.
ESC-u Undo (toggle) search highlighting.
ESC-U Clear search highlighting.
&pattern * Display only matching lines.

-----
A search pattern may begin with one or more of:
^N or ! Search for NON-matching lines.
^E or * Search multiple files (pass thru END OF FILE).
^F or @ Start search at FIRST file (for /) or last file (for ?).
^K Highlight matches, but don't move (KEEP position).
^R Don't use REGULAR EXPRESSIONS.
^W WRAP search if no match found.
```

## JUMPING

```
g < ESC-< * Go to first line in file (or line N).
G > ESC-> * Go to last line in file (or line N).
p % * Go to beginning of file (or N percent into file).
t * Go to the (N-th) next tag.
T * Go to the (N-th) previous tag.
{ [ * Find close bracket } ) ].
} ] * Find open bracket { ( [.
ESC-^F <c1> <c2> * Find close bracket <c2>.
ESC-^B <c1> <c2> * Find open bracket <c1>.
```

```
-----
Each "find close bracket" command goes forward to the close bracket
matching the (N-th) open bracket in the top line.
Each "find open bracket" command goes backward to the open bracket
```

```
HELP -- Press RETURN for more, or q when done
```

```
wp-includes/sodium_compat/src/Core32/Curve25519/Ge/Precomp.php
wp-includes/sodium_compat/src/Core32/Poly1305/
wp-includes/sodium_compat/src/Core32/Poly1305/State.php
wp-includes/sodium_compat/src/Core32/SecretStream/
wp-includes/sodium_compat/src/Core32/SecretStream/State.php
wp-includes/sodium_compat/src/PHP52/
wp-includes/sodium_compat/src/PHP52/SplFixedArray.php
wp-includes/style-engine/
wp-includes/style-engine/class-wp-style-engine-css-declarations.php
wp-includes/style-engine/class-wp-style-engine-css-rule.php
wp-includes/style-engine/class-wp-style-engine-css-rules-store.php
wp-includes/style-engine/class-wp-style-engine-processor.php
wp-includes/style-engine/class-wp-style-engine.php
wp-includes/theme-compat/
wp-includes/theme-compat/comments.php
wp-includes/theme-compat/embed-404.php
wp-includes/theme-compat/embed-content.php
wp-includes/theme-compat/embed.php
wp-includes/theme-compat/footer-embed.php
wp-includes/theme-compat/footer.php
wp-includes/theme-compat/header-embed.php
wp-includes/theme-compat/header.php
wp-includes/theme-compat/sidebar.php
wp-includes/widgets/
wp-includes/widgets/class-wp-nav-menu-widget.php
wp-includes/widgets/class-wp-widget-archives.php
wp-includes/widgets/class-wp-widget-block.php
wp-includes/widgets/class-wp-widget-calendar.php
wp-includes/widgets/class-wp-widget-categories.php
wp-includes/widgets/class-wp-widget-custom-html.php
wp-includes/widgets/class-wp-widget-links.php
wp-includes/widgets/class-wp-widget-media-audio.php
wp-includes/widgets/class-wp-widget-media-gallery.php
wp-includes/widgets/class-wp-widget-media-image.php
wp-includes/widgets/class-wp-widget-media-video.php
wp-includes/widgets/class-wp-widget-media.php
wp-includes/widgets/class-wp-widget-meta.php
wp-includes/widgets/class-wp-widget-pages.php
wp-includes/widgets/class-wp-widget-recent-comments.php
wp-includes/widgets/class-wp-widget-recent-posts.php
wp-includes/widgets/class-wp-widget-rss.php
wp-includes/widgets/class-wp-widget-search.php
wp-includes/widgets/class-wp-widget-tag-cloud.php
wp-includes/widgets/class-wp-widget-text.php

sent 75,177,435 bytes  received 63,510 bytes  150,481,890.00 bytes/sec
total size is 74,915,090  speedup is 1.00
root@direalestate-server:/tmp#
```

→ My wordpress admin portal

The screenshot shows the WordPress admin dashboard. On the left is a sidebar with various menu items like Dashboard, Home, Updates, Media, Pages, Comments, Easy Property Listings, Appearance, Plugins, Users, Tools, Settings, Filters, and Theme Settings. The main area features a large "Welcome to WordPress!" banner with a link to learn more about version 6.8.1. Below it are three cards: "Author rich content with blocks and patterns", "Customize your entire site with block themes", and "Switch up your site's look & feel with Styles". At the bottom left is a "Site Health Status" box indicating "No information yet...". On the right, there's a "Quick Draft" editor with fields for Title and Content, and two dashed boxes labeled "Drag boxes here".

→ This is my web page.

The screenshot shows the homepage of the DJ Real Estate website. The header includes a logo for "DJ Real Estate" and navigation links for Home, About Us, Services, Property, Page, and Buy Now. A search bar is on the right. The main section has a dark background with orange diagonal stripes. It features a large button labeled "FIND YOUR DREAM HOME RIGHT AWAY." and smaller buttons for "FIND PROPERTY" and "Buy Now". To the right is a photograph of a modern apartment complex at night. The footer contains social media icons and a copyright notice for 2025.

#### About Us

### We Specialize In Quality Home Renovations

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

- Outstanding property
- Professional and experienced human resources
- Provide the services for users



The screenshot shows a blog post titled "HELLO WORLD!". The post was published on Jun 2025 by admin and has one response. It contains a short text snippet: "Hello world! This is my first post. Welcome to my blog.". Below the post is a "Read More" button.

The screenshot shows the footer of the DJ Real Estate website. It includes sections for "DJ Real Estate", "Information" (About Us, Properties, Careers, Payment, Blog Post), "Support" (Add Property, Terms & Conditions, Help Line, Our Agents, Features), and "POPULAR PROPERTIES" (two property listings with images, descriptions, and prices). At the bottom, there are links for "Call Us" (0434933710), "Website" (http://djrealestateonline/#), "Address" (6 lesser place Parkwood), and "Email" (dilmikathathsarana22@gmail.com).

## → SSL Report

**SSL Report: djrealestate.online (170.64.231.247)**

Assessed on: Wed, 11 Jun 2025 03:20:04 UTC | [Hide](#) | [Clear cache](#) | [Scan Another »](#)

**Summary**

Overall Rating: **A**

Certificate	100
Protocol	100
Support	100
Key	100
Exchange	100
Cipher	100
Strength	100

Visit our [documentation page](#) for more information, configuration guides, and books. Known issues are documented [here](#).

This server supports TLS 1.3. [MORE INFO »](#)

**Certificate #1: EC 256 bits (SHA384withECDSA)**

Server Key and Certificate #1	
	djrealestate.online
Subject	Fingerprint SHA256: fbc0091b18da06d7892518a9ca8b2b-f6a142e9420ae6bb607b500b5176a8335c Pin SHA256: dwZ/PNsv/jWJjc4J0JbljkqeE+AE9BK+dy0k1I9eUEI=
Common names	djrealestate.online
Alternative names	djrealestate.online www.djrealestate.online
Serial Number	052f101ff90371e9e410a9e7bde07e3d4cd6
Valid from	Wed, 11 Jun 2025 01:37:21 UTC
Valid until	Tue, 09 Sep 2025 01:37:20 UTC (expires in 2 months and 28 days)
Key	EC 256 bits
Weak key (Debian)	No
Issuer	E6 AIA: http://e6.i.lencr.org/
Signature algorithm	SHA384withECDSA
Extended Validation	No
Certificate Transparency	<b>Yes (certificate)</b>
OCSP Must Staple	No
Revocation information	CRL CRL: http://e6.c.lencr.org/87.crl
Revocation status	Good (not revoked)

## → Reflection

- This project helped demonstrate practical skills in Linux server administration, manual application deployment, scripting, and using Infrastructure as a Service. I also gained experience linking domains and understanding firewall and backup automation.

## References

- DigitalOcean. (n.d.). *Getting Started with Droplets*. Retrieved from <https://docs.digitalocean.com/products/droplets/>
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