

WordPress Deployment on AWS EC2

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1. Launching the EC2 Instance

Created an EC2 instance using the t2.micro tier (free-tier eligible) and named it **wordpress-server**. Selected Amazon Linux 2 as the OS. Configured security groups to allow inbound traffic for: SSH (port 22) - for remote login HTTP (port 80) - to serve the WordPress site HTTPS (port 443) - for SSL Access was allowed from 0.0.0.0/0 for simplicity (not recommended in production).

Connected to the instance using: `ssh -i your-key.pem ec2-user@<your-ec2-public-ip>` **2.**

Updating the Server Packages

Updated all system packages to ensure security and compatibility. `sudo yum update -y` **3.**

Installing Apache Web Server

Installed Apache to serve web content and enabled it to start on boot. `sudo yum install httpd -y sudo systemctl start httpd sudo systemctl enable httpd` **4. Installing MariaDB**

(MySQL Server)

Installed MariaDB for database management. `sudo yum install mariadb-server -y sudo systemctl start mariadb sudo systemctl enable mariadb sudo mysql_secure_installation` **5.**

Creating the WordPress Database

Logged into MariaDB and created the WordPress database and user. `sudo mysql -u root -p CREATE DATABASE wordpress; CREATE USER 'wpuser'@'localhost' IDENTIFIED BY 'wet1234'; GRANT ALL PRIVILEGES ON wordpress.* TO 'wpuser'@'localhost'; FLUSH PRIVILEGES; EXIT;` **6. Installing PHP and Required Extensions**

Installed PHP and modules necessary for WordPress to function. `sudo yum install php php-mysqlnd php-gd php-xml php-mbstring -y sudo systemctl restart httpd` **7.**

Downloading and Configuring WordPress

Downloaded and extracted WordPress in the Apache directory. `cd /tmp wget https://wordpress.org/latest.tar.gz tar -xvzf latest.tar.gz sudo mv wordpress /var/www/html/`

8. Setting Permissions for Apache

Granted Apache user (apache) the required access permissions. `sudo chown -R apache:apache /var/www/html/wordpress sudo chmod -R 755 /var/www/html/wordpress` **9.**

Configuring WordPress

Copied and edited the WordPress configuration file. `cd /var/www/html/wordpress cp wp-config-sample.php wp-config.php sudo nano wp-config.php` Updated the following lines: `define('DB_NAME', 'wordpress'); define('DB_USER', 'wpuser'); define('DB_PASSWORD', 'wet1234'); define('DB_HOST', 'localhost');` **10. Restarting Services**

Restarted Apache and MariaDB services. `sudo systemctl restart httpd sudo systemctl restart mariadb` **11. Accessing WordPress**

Accessed the WordPress setup through the browser:

http://<your-ec2-public-ip>/wordpress Completed the setup wizard to configure the site title, admin credentials, and email. ■ **WordPress is now successfully installed and running on the EC2 instance. Optional (Recommended for Production):** Set up an SSL certificate using Let's Encrypt. Configure a domain name with Route 53. Restrict SSH/HTTP access to trusted IPs only.