**# Host a WordPress website on AWS #**

**NOTE**: Hosting a **WordPress** website **charges**.

1. **$0.50** per hosted zone/ month for the first 25 hosted zones.
2. **$0.10** per hosted zone/ month for additional hosted zones.
3. If you delete the hosted zone within 12 hours of its creation, no charges will be applied.

**SERVICES USED**: AWS EC2, AWS route53 (AWS DNS service), PUTTY gen and PUTTY application.

**STEP1**: How to install WordPress on AWS.

* Go to your **AWS Management Console**. Login in into your root user.
* Click on the services and choose an EC2 instance. You will be redirected to **EC2 dashboard**.
* Click on **launch instance** button. On the left panel click on AWS Marketplace and search for **WordPress.**
* Select the first **AMI (WordPress Certified by Bitnami and Automatic)** and click continue.
* Choose the **t2.micro** machine as your instance type because it lies under the free tier. Click on configure instance details.
* Under **the Auto-assign Public IP choose enable**. Click on review and launch.
* Click on **launch button** to deploy the instance. You have to create a SSH key pair. Drop down to **create a new key pair** and give it a name. Click on Download the key pair and **launch** the instance.
* Now obtain the WordPress credentials. Go to **EC2 dashboard** and you will be having 1 running instance click on it.
* Wait until the instance state be **running** and status check **be 2/2 checks passed.**
* Right click on the instance. Go to instance settings and click on **Get System Log.**
* Scroll to the bottom of the page and you will find a password **located in a box**. Copy that password and store it in text file or any safe loaction.
* Copy the **IPv4 Public IP** which is available on with the instance and store it in the text file.
* Open a New browser window and paste the IP address. You can see your WordPress website which has been deployed. Add your IP/wp-admin and open the login page.
* User name will be **user** and password will be the **password you have early stored** in a text file and hit login.
* **You have successfully installed Wordpress on Amazon AWS EC2 instance.**

**STEP 2**: Transfer a domain name to AWS.

* Go to your AWS Management Console. Login in into your root user.
* Click on services and search **for route53** and open the route53 console. Go to **DNS** **management** and click get started now button.
* Click **create hosted zone**. In right panel enter a **domain name** which you have purchased for example (abc.com or any other extension), it will be a public hosted zone and click on create.
* On top click on **create record set** button. In right panel leave the name panel blank. In the **value section paste your IP address** which you have copied earlier and click create.
* **Create another record set**. In name field type **www** and in type choose **CNAME-canonical name**, in value field type your **domain name** entered earlier (abc.com) and click create. You will see four record sets.
* Go to your domain name provider for example (Hostinger, namecheap etc). Under the **NAMESERVERS** choose the **custom DNS.**
* Go to your **route53** Console you can see **4 nameservers** in the type NS section. Copy each and every one and paste **in custom DNS field**. Once you have copied all the nameservers click on the **save button**. Wait for minimum 5 minutes for your update.
* Now open a new browser window and type in your domain name and press enter. **Your domain name is successfully linked to WordPress website on AWS.**
* In order to **add the www prefix** to your domain follow the given process.
* Now to **SSH into your AWS EC2 instance** visit the following link: <https://www.youtube.com/watch?v=4WQe_-DAn1E>
* After you SSH into your EC2 instance, copy **and paste the command below** to open your server’s configuration file (right-click to paste).

sudo nano /opt/bitnami/apache2/conf/bitnami/bitnami.conf

* Now that you’ve opened your server’s configuration file**, copy and paste the three lines of code** below **documentRoot** line.

RewriteEngine On  
 RewriteCond %{HTTP\_HOST} !^www\. [NC]  
 RewriteRule ^(.\*)$ http://www.%{HTTP\_HOST}%{REQUEST\_URI} [R=301,L]

**Press ctrl x and then Y and press enter**.

* Now **restart your Apache server** with the following command.

sudo /opt/bitnami/ctlscript.sh restart apache

* You can now see the server is automatically serving the www in front even if we don’t type www in front. We have successfully transferred the domain name to AWS.

**STEP 3**: Migrate your database.

* Go to new browser window and type your **domain name** the WordPress site will appear.
* **Add /wp-admin in the end of site**, Login page will appear then enter the username as user and password as the one copied earlier.
* Take the **backup** of your WordPress website and **install all the plugins** and **import the code** you have backed up.
* **Once the process is over your site will be successfully hosted on AWS with the database as well**.