

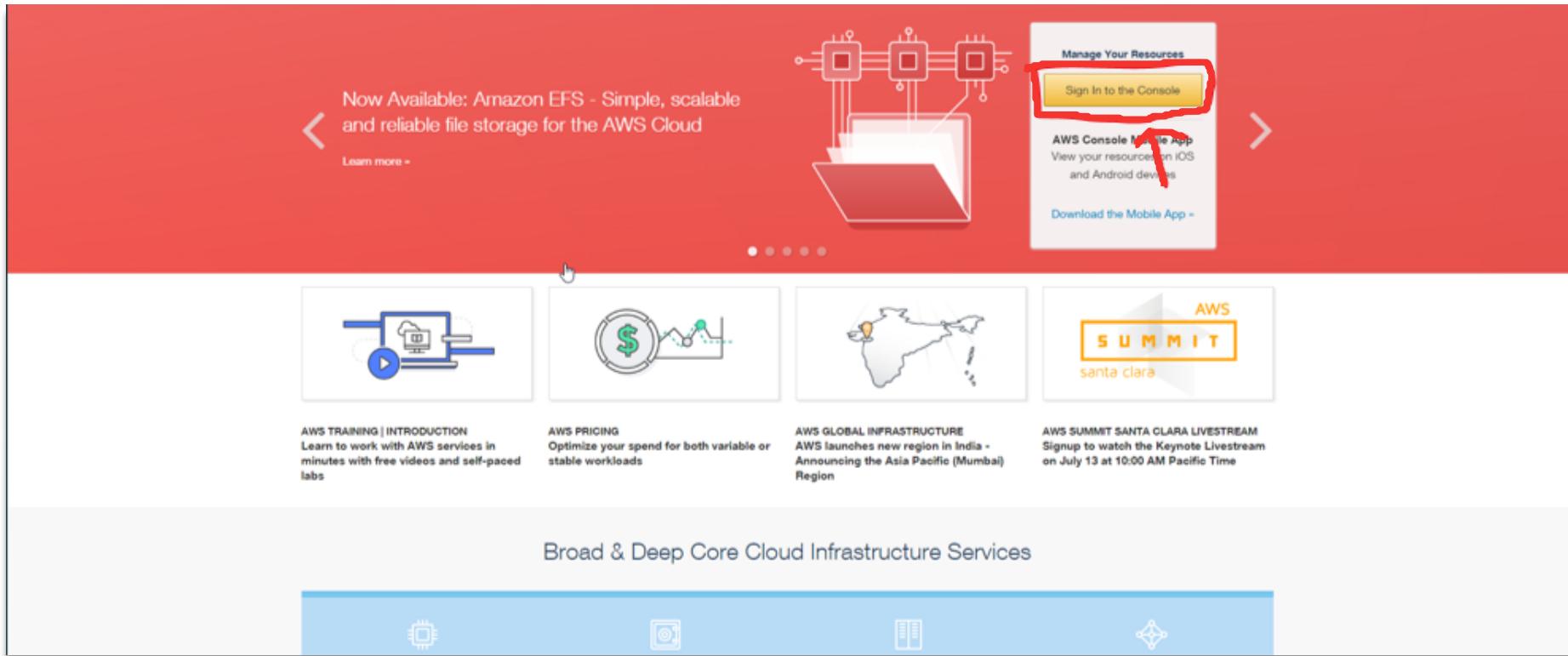
# How to use AWS

Creating a WordPress site with Amazon Web Services

# Guide Objectives

- This guide is split into 3 parts, each with it's own objective. It is recommended to use this guide in order, however each part can stand alone.
- Part 1 covers setting up an AWS account
- Part 2 covers creating a Virtual Machine
- Part 3 accessing your new WordPress machine

# Part 1: Signing up for AWS



## 1.1 – Accessing AWS

Go to <https://aws.amazon.com/> to access the AWS.

You should see a screen like the one above. Press one of the “Sign In to the Console” buttons to access the AWS

## Sign In or Create an AWS Account

What is your email (phone for mobile accounts)?

E-mail or mobile number:

fake@email.com

- I am a new user.
- I am a returning user and my password is:

Sign in using our secure server

[Forgot your password?](#)



Learn more about [AWS Identity and Access Management](#) and [AWS Multi-Factor Authentication](#), features that provide additional security for your AWS Account. View full [AWS Free Usage Tier offer terms](#).

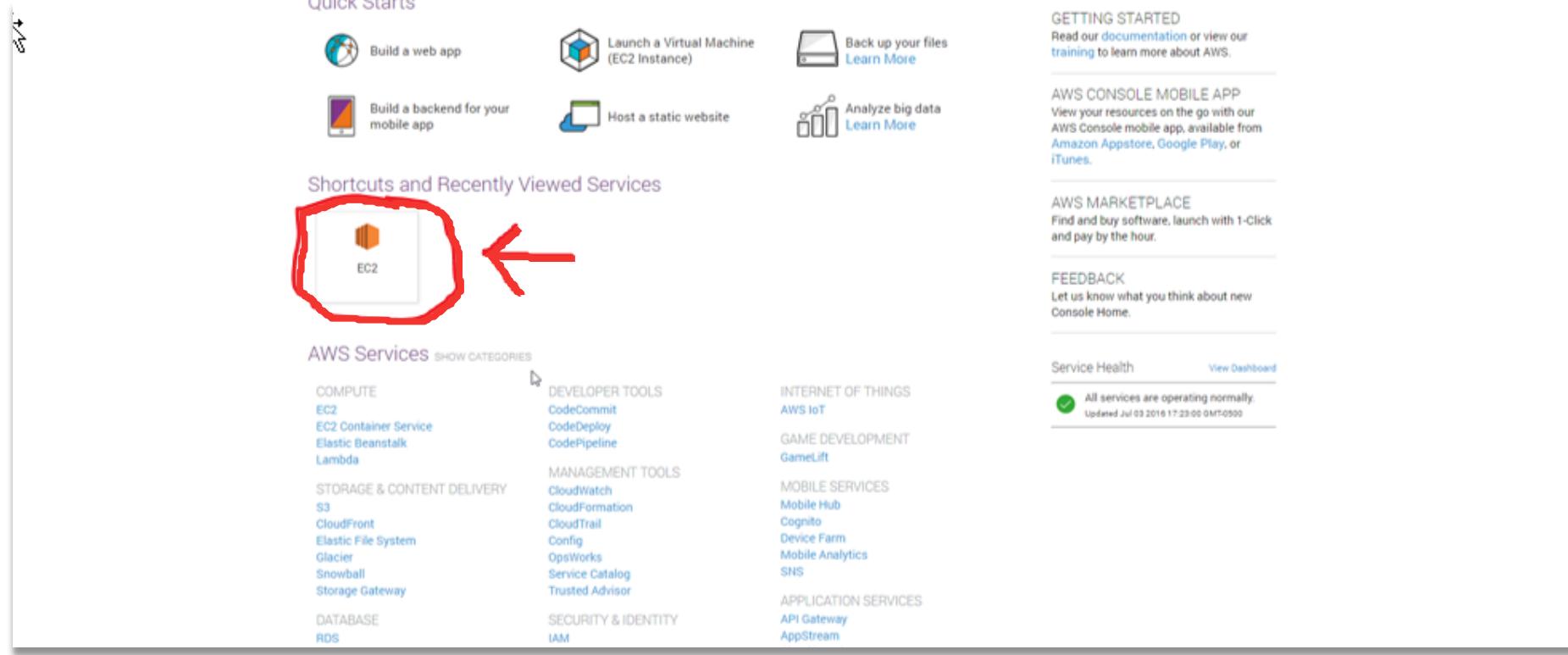


## 1.2 - Sign in to AWS

Next, you should see this screen. If you have an Amazon account sign in. It may ask you to add some more information to join AWS.

If you do not have an Amazon account it will let you make one, then add the info to join AWS.

# Part 2: Creating your Virtual Machine



## 2.1 - Creating a Virtual Machine

Once you have finished verifying your e-mail and setting up an AWS account, you can begin to make a free virtual machine. Your AWS Dashboard should look like this.

Click on the highlighted button to go to the EC2 page and begin deploying a VM

The screenshot shows the AWS EC2 console interface. On the left, there's a navigation sidebar with various service links like Reports, Limits, Instances, and Auto Scaling. The main content area has sections for instance metrics (0 Running Instances, 0 Dedicated Hosts, etc.) and network resources (0 Elastic IPs, 0 Snapshots, etc.). A prominent blue button labeled "Launch Instance" is highlighted with a red box and a red arrow pointing to it. Below the button, text reads: "To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance." A note below says: "Note: Your instances will launch in the US West (Oregon) region". To the right, there are sections for Service Health (Service Status: US West (Oregon) operating normally, Availability Zone Status: us-west-2a and us-west-2b operating normally) and Scheduled Events (No events). The top right corner shows VPC details (Default VP: vpc-64a1) and additional links for Getting Started, Document, All EC2 Re, Forums, Pricing, and Contact Us.

## 2.2 – Launch Instance

To begin the process of creating a new VM, press the “Launch Instance” button.

The screenshot shows the AWS Quick Start interface. On the left, there's a sidebar with 'Quick Start' at the top, followed by 'My AMIs', 'AWS Marketplace' (which is highlighted with a red box and has a red arrow pointing to it), and 'Community AMIs'. Below these are two checkboxes: 'Free tier only' and '(i)'. The main area lists several AMI options:

- Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611**  
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include...  
Root device type: ebs Virtualization type: hvm  
**Free tier eligible**
- Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16**  
Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type  
Root device type: ebs Virtualization type: hvm  
**Free tier eligible**
- SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3**  
SUSE Linux Enterprise Server 12 Service Pack 1 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, a...  
Root device type: ebs Virtualization type: hvm  
**Free tier eligible**
- Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb**  
Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).  
Root device type: ebs Virtualization type: hvm  
**Free tier eligible**
- Microsoft Windows Server 2012 R2 Base - ami-8d0acfed**  
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]

## 2.3 – Select AWS Marketplace

In order to get a pre-setup WordPress install click on the AWS Marketplace button. This will allow you to select an operating system with AWS preinstalled.

AWS Marketplace, or you can select one of your own AMIs.

The screenshot shows the AWS Marketplace search results for "wordpress". The search bar at the top contains the query "wordpress". On the left, there is a sidebar with navigation links: "Quick Start", "My AMIs", "AWS Marketplace", "Community AMIs", "Categories" (with "All Categories", "Software Infrastructure (64)", "Developer Tools (10)", and "Business Software (37)" listed), "Operating System" (with "All Windows" and "All Linux/Unix" filters), and "Clear Filter". The main content area displays three search results:

- WordPress powered by Bitnami (HVM)**:  
Rating: ★★★★☆ (14) | 4.5.3-1-r17 on Ubuntu 14.04.3 | Sold by BitRock Inc.  
\$0.00/hr for software + AWS usage fees  
Linux/Unix, Ubuntu 14.04.3 | 64-bit Amazon Machine Image (AMI) | Updated: 8/25/16  
Bitnami WordPress is a pre-configured, ready to run image for running WordPress on Amazon EC2. WordPress is one of the worlds most popular web publishing platforms for ...  
[More info](#) [Select](#)
- WordPress powered by Bitnami (PV)**:  
Rating: ★★★★☆ (70) | 4.6-1-r21 on Ubuntu 14.04.3 [Previous versions](#) | Sold by BitRock Inc.  
\$0.00/hr for software + AWS usage fees  
Linux/Unix, Ubuntu 14.04.3 | 64-bit Amazon Machine Image (AMI) | Updated: 9/6/16  
This image is for customers that require legacy paravirtualization support (PV). Bitnami WordPress is a pre-configured, ready to run image for running WordPress on Amazon ...  
[More info](#) [Select](#)
- WordPress powered by AMIMOTO (HVM)**:  
Rating: ★★★★☆ (8) | 1.3.1 [Previous versions](#) | Sold by DigitalCube Co. Ltd  
Starting from \$0.005/hr or from \$40/hr (up to 66% savings) for software + AWS usage fees

## 2.4 – Find WordPress

First, use the search bar and type in “wordpress” (highlighted in red).

Then select “WordPress powered by Bitnami.” This will ensure your new server is readily configured for WordPress!

**WordPress powered by Bitnami**

Bitnami WordPress is a pre-configured, ready to run image for running WordPress on Amazon EC2. WordPress is one of the worlds most popular web publishing platforms for building blogs and websites. It can be customized via a wide selection of themes, extensions and plug-ins. Note that this image does not support HVM instances. Bitnami also ...

[More info](#)

**Product Details**

Sold by BitRock Inc.

Customer Rating ★★★★☆ (69)

Latest Version 4.5.2-0 on Ubuntu 14.04.3

Base Operating System Linux/Unix, Ubuntu 14.04.3

Delivery Method 64-bit Amazon Machine Image (AMI)

License Agreement [End User License Agreement](#)

**Pricing Details**

**Hourly Fees**

Instance Type	Software	EC2	Total
T1 Micro	\$0.00	\$0.02	\$0.02/hr
M1 Small	\$0.00	\$0.044	\$0.044/hr
M1 Medium	\$0.00	\$0.087	\$0.087/hr
M1 Large	\$0.00	\$0.175	\$0.175/hr
M1 Extra Large	\$0.00	\$0.35	\$0.35/hr
M2 High-memory Extra Large	\$0.00	\$0.245	\$0.245/hr
M2 High-memory Double Extra Large	\$0.00	\$0.49	\$0.49/hr
M2 High-memory Quadruple Extra Large	\$0.00	\$0.98	\$0.98/hr
M3 Medium	\$0.00	\$0.067	\$0.067/hr
M3 Large	\$0.00	\$0.133	\$0.133/hr
M3 Extra Large	\$0.00	\$0.266	\$0.266/hr
M3 Double Extra Large	\$0.00	\$0.532	\$0.532/hr
C1 High-CPU Medium	\$0.00	\$0.13	\$0.13/hr
C1 High-CPU Extra Large	\$0.00	\$0.52	\$0.52/hr
C3 Large	\$0.00	\$0.105	\$0.105/hr
C3 Extra Large	\$0.00	\$0.21	\$0.21/hr
C3 Double Extra Large	\$0.00	\$0.42	\$0.42/hr
C3 Quadruple Extra Large	\$0.00	\$0.84	\$0.84/hr
C3 Eight Extra Large	\$0.00	\$1.68	\$1.68/hr

EBS General Purpose (SSD) volumes  
\$0.10 per GB-month of provisioned storage

You will not be charged until you launch this instance.

[Cancel](#) [Continue](#)

## 2.5 – Read pricing details

The pricing details are listed here (in case you wish to pay money). Assuming you intend to use the free-tier this shouldn't be important. Press the continue button.

Currently selected: t1.micro (Variable ECUs, 1 vCPUs, 0.613 GiB memory, EBS only)

Note: The vendor recommends using a m1.small instance (or larger) for the best experience with this product.

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	No.
<input checked="" type="checkbox"/>	Micro instances	t1.micro Free tier eligible	1	0.613	EBS only	-	
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	
<input type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	
<input type="checkbox"/>	General purpose	m4.4xlarge	16	64	EBS only	Yes	
<input type="checkbox"/>	General purpose	m4.10xlarge	40	160	EBS only	Yes	
<input type="checkbox"/>	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	

A red arrow points from the top right towards the "Review and Launch" button at the bottom right of the table.

[Cancel](#) [Previous](#) [Review and Launch](#)

## 2.6 – Select t1.micro

The t1.micro instance should be selected – this is the lowest cost option and should be used. Press the “Review and Launch” button.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

**Step 7: Review Instance Launch**

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**⚠ Improve your instances' security. Your security group, WordPress powered by Bitnami-4-5-2-0 on Ubuntu 14-04-3-AutogenByAWSMP-, is open to the world.**

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

**AMI Details**

[Edit AMI](#)

**WordPress powered by Bitnami**  
https://bitnami.com

Free tier eligible

Root Device Type: ebs Virtualization type: paravirtual

Hourly Software Fees: \$0.00 per hour on t1.micro instance  
Software charges will begin once you launch this AMI and continue until you terminate the instance.

By launching this product, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's [End User License Agreement](#)

[Cancel](#) [Previous](#) **Launch**

## 2.7 – Review Instance

The next screen lets you review your instance. The important things to note are highlighted in green – that you're using WordPress powered by Bitnami, and that your fees are 0.00 per hour (assuming you are using the free tier).

AMI Details

WordPress powered by Bitnami  
https://bitnami.com

Free tier eligible

Root Device Type: /dev/sda1 Virtualization type: paravirtual

Hourly Software Fees: \$0.00 per hour on t1.micro instance  
Software charges will begin once you launch this AMI and continue until you terminate the instance.

By launching this product, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t1.micro	Variable	1	0.613	EBS only	-	Very Low

Security Groups

Security group name: WordPress-4-5-2-0 on Ubuntu 14-04-3-AutogenByAWSMP-3  
Description: This security group was generated by AWS Marketplace and is based on recommended settings for WordPress powered by Bitnami version 4.5.2-0 on Ubuntu 14.04.3 provided by Bitnami.

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0
HTTP	TCP	80	0.0.0.0/0
HTTPS	TCP	443	0.0.0.0/0

Instance Details

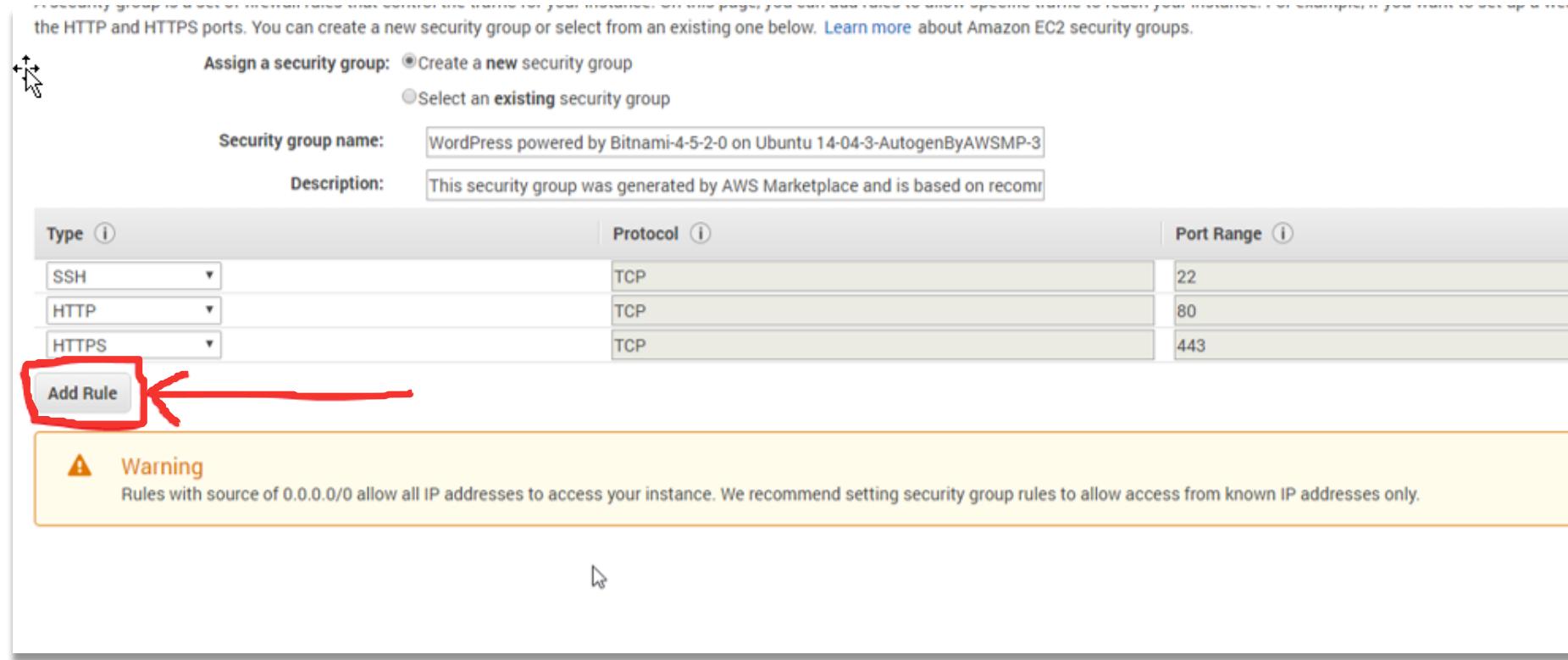
Edit instance type

Edit security group

Cancel Previous Launch

## 2.8 – Modify Security Groups

Now, in order to access WordPress we need to modify security groups. Press the “Edit security Groups” button to begin



## 2.9 – Add a Rule

We need to add a new rule to let us access WordPress via a web browser. Press the Add Rule button

## Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more about Amazon EC2 security groups.](#)

Assign a security group:  Create a new security group  
 Select an existing security group

Security group name: WordPress powered by Bitnami-4-5-2-0 on Ubuntu 14-04-3-AutogenByAWSMP-3

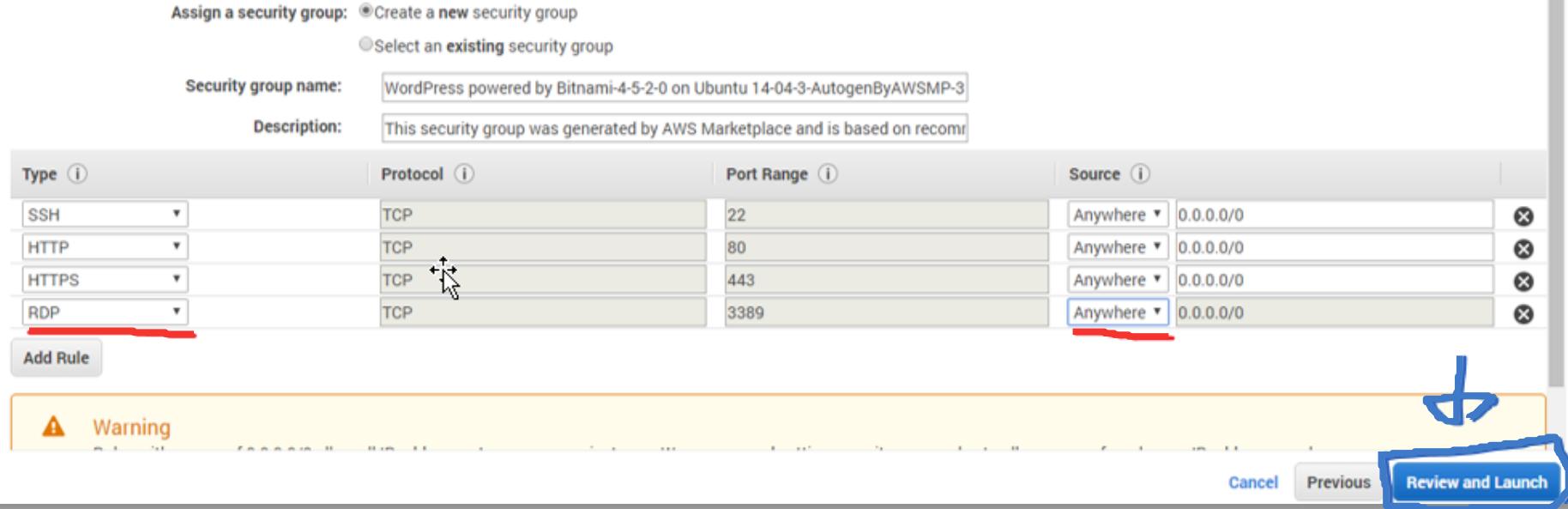
Description: This security group was generated by AWS Marketplace and is based on recom...

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere 0.0.0.0/0
HTTP	TCP	80	Anywhere 0.0.0.0/0
HTTPS	TCP	443	Anywhere 0.0.0.0/0
RDP	TCP	3389	Anywhere 0.0.0.0/0

Add Rule

**Warning**

Cancel Previous **Review and Launch**



## 2.10 – Enable a RDP Rule

The rule we need is of type RDP. First select that, then the port range will be selected automatically. After that set the source to be “Anywhere”

Then Press the “Review and Launch” button highlighted in blue.

## Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**⚠ Improve your instances' security.** Your security group, WordPress powered by Bitnami-4-5-2-0 on Ubuntu 14-04-3-AutogenByAWSMP-3, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

### AMI Details

[Edit AMI](#)



WordPress powered by Bitnami

<https://bitnami.com>

Free tier eligible

Root Device Type: ebs Virtualization type: paravirtual

Hourly Software Fees: \$0.00 per hour on t1.micro instance

Software charges will begin once you launch this AMI and continue until you terminate the instance.

By launching this product, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's

[End User License Agreement](#)

[Cancel](#)

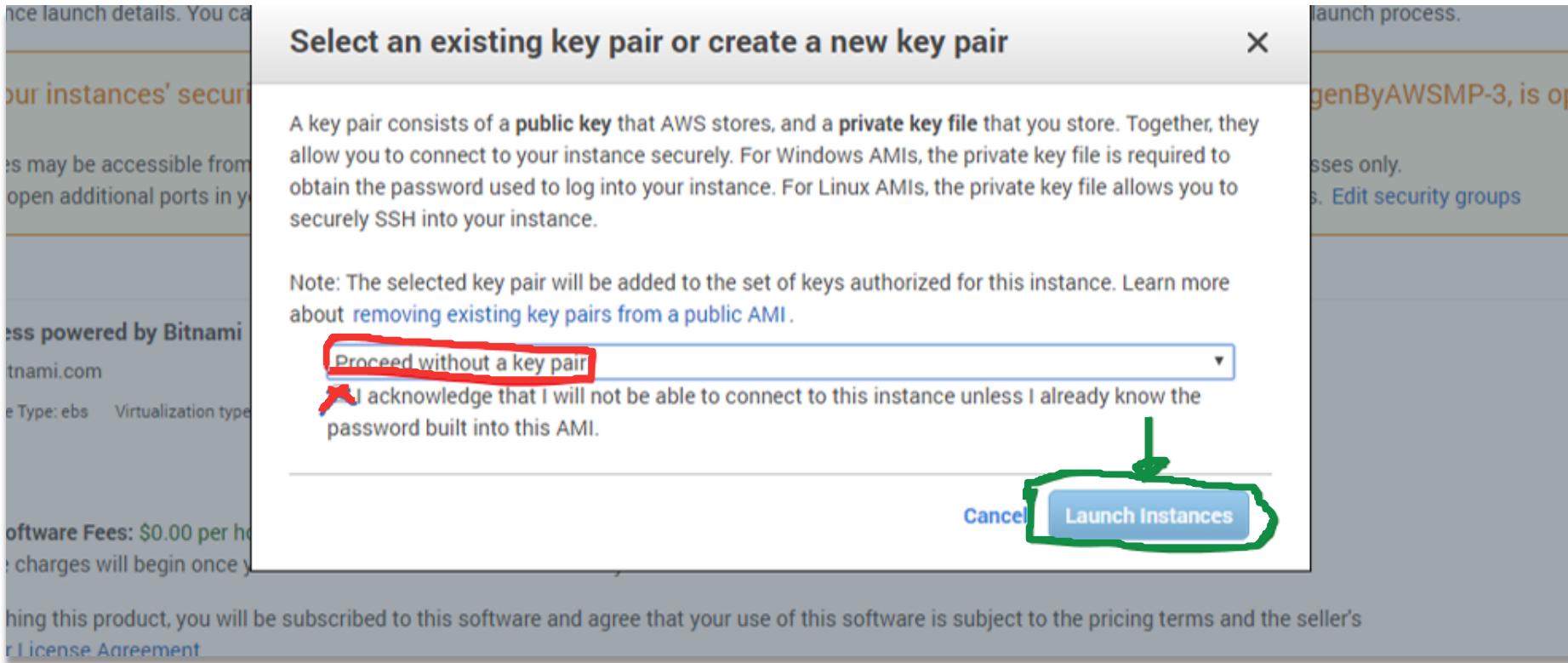
[Previous](#)

**Launch**



## 2.11 – Press launch instance button

You should be back at the “Review Instance Launch” page. Press the “Launch” button.



## 2.12 – Proceed without key pair

In the popup box press “Proceed without a key pair” then check the box highlighted in blue.

Once checked press the “Launch Instance” button highlighted in green.

## Launch Status



Your instances are now launching

The following instance launches have been initiated: i-0a8c2f3f27c9a0352 [View launch log](#)



Get notified of estimated charges

[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

### How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

### Getting started with your software

To get started with WordPress powered by Bitnami

To manage your software subscription

[View Usage Instructions](#)

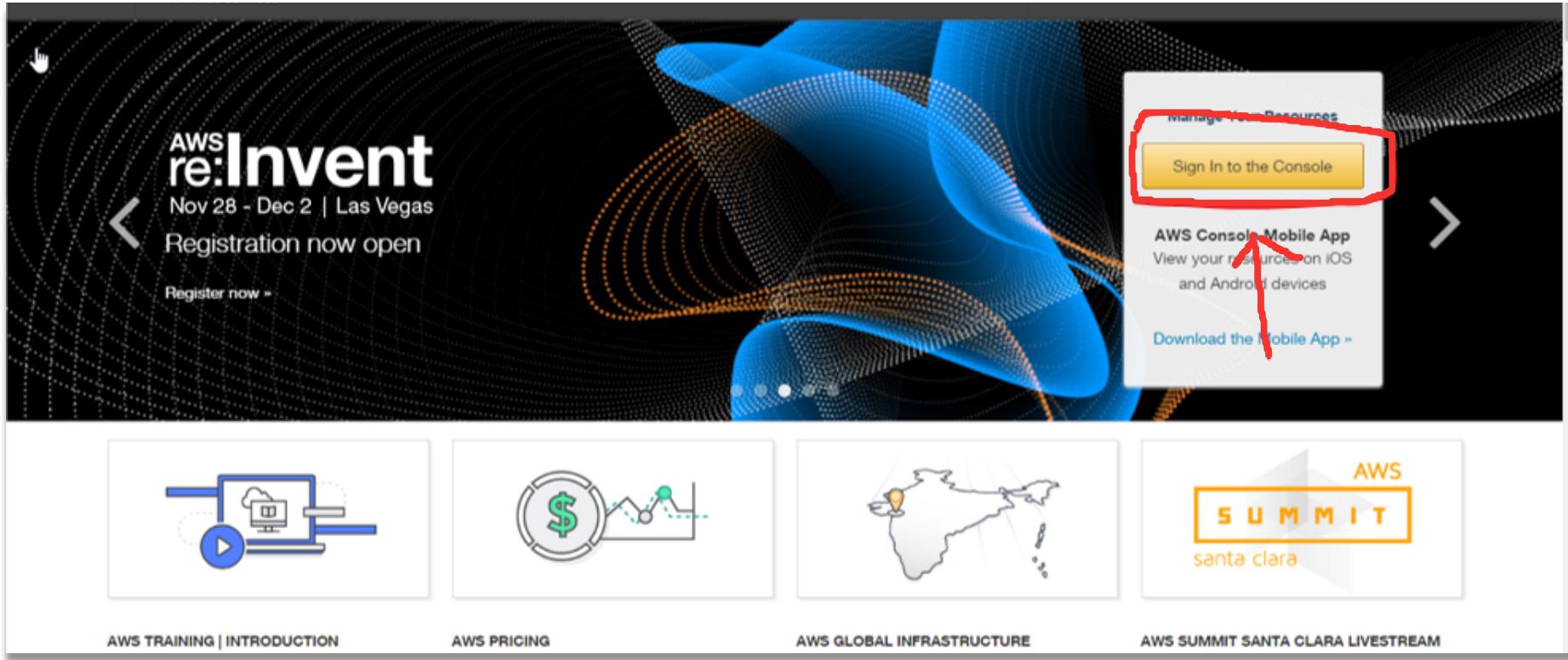
[Open Your Software on AWS Marketplace](#)

## 2.13 – Instance Launched!

After a small loading screen your instance should now be created! Congrats!

It's important to enable proper security on your site, so it's advised that you proceed directly on to part 3 to setup your WordPress site.

# Part 3: Accessing WordPress



### 3.1 – Login to AWS

To access your site first go to [aws.amazon.com](http://aws.amazon.com) and then press “Sign in to the Console”

The screenshot shows the AWS Home Page. At the top, there are several quick links:

- Build a web app
- Launch a Virtual Machine (EC2 Instance)
- Back up your files
- Build a backend for your mobile app
- Host a static website
- Analyze big data

Below these is a section titled "Shortcuts and Recently Viewed Services". A red box highlights a card for "EC2" with a red arrow pointing to it from the left.

AWS Services SHOW CATEGORIES

COMPUTE DEVELOPER TOOLS INTERNET OF THINGS

Read our documentation to learn more about AWS services.

AWS CONSOLE View your resources in the AWS Console mobile app. Amazon AppStream for iTunes.

AWS MARKETPLACE Find and buy software and pay by the hour.

FEEDBACK Let us know what you think. Console Home.

Service Health

### 3.2 – Go to EC2

Once in the AWS go to the EC2 page

The screenshot shows the AWS EC2 Instances page. On the left, a sidebar menu lists various resources: Events, Tags, Reports, Limits, INSTANCES (with 'Instances' highlighted and a red arrow pointing to it), Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, IMAGES (AMIs, Bundle Tasks), ELASTIC BLOCK STORE (Volumes, Snapshots), and NETWORK & SECURITY (Security Groups). The main content area displays resource counts: 1 Running Instances, 0 Dedicated Hosts, 1 Volumes, 3 Key Pairs, 0 Placement Groups, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 7 Security Groups. A promotional banner for Amazon Simple Workflow Service is visible. Below this, a 'Create Instance' section includes a 'Launch Instance' button and a note about launching in the US West (Oregon) region. Navigation links for Service Health and Scheduled Events are at the bottom.

You are using the following Amazon EC2 resources in the US West (Oregon) region:

1 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
1 Volumes	0 Load Balancers
3 Key Pairs	7 Security Groups
0 Placement Groups	

Build and run distributed, fault-tolerant applications in the cloud with [Amazon Simple Workflow Service.](#) ×

**Create Instance**

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

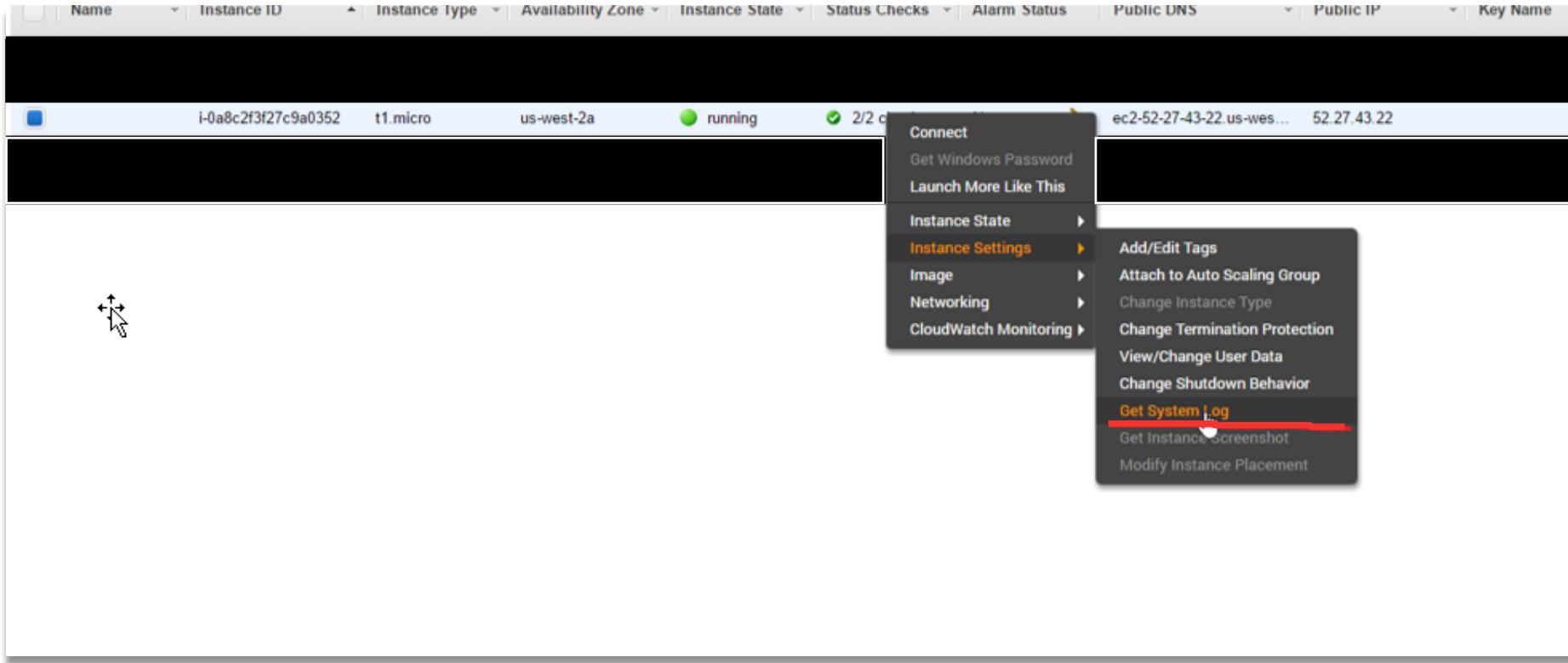
**Launch Instance**

Note: Your instances will launch in the US West (Oregon) region

[Service Health](#) [Scheduled Events](#)

### 3.3 – View your instances

To see your new WordPress instance press the “Instances” tab in the EC2.



## 3.4 – Find out your WordPress Password OLD INTERFACE

To access your password you must open up the system log, using the right click menu as shown above.

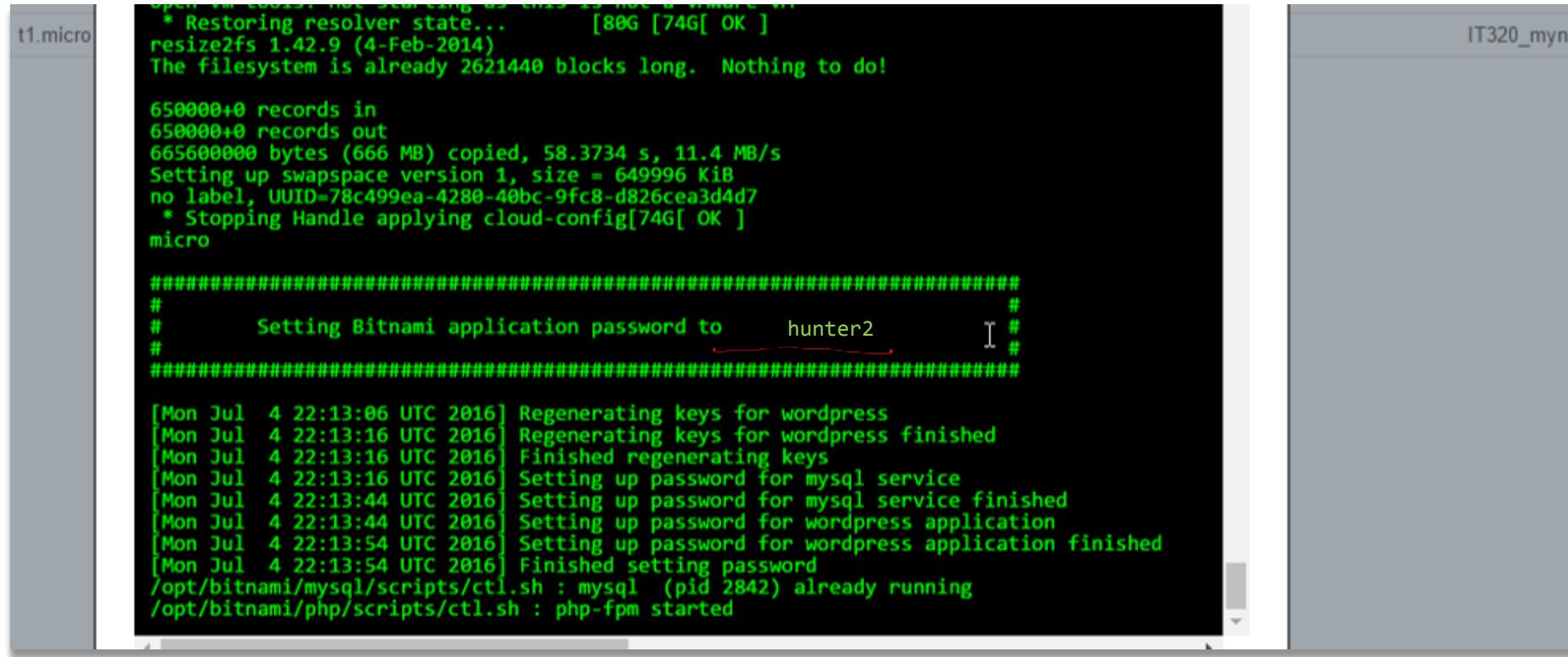
You likely will have only one Instance, unless you created more for other classes or personal use



## 3.4 – Find out your WordPress Password

To access your password you must open up the system log, using the right click menu as shown above.

You likely will have only one Instance, unless you created more for other classes or personal use



```
open /var/lib/nfs/versinfo: No such file or directory...
 * Restoring resolver state... [80G [74G[ OK ]
resize2fs 1.42.9 (4-Feb-2014)
The filesystem is already 2621440 blocks long. Nothing to do!

650000+0 records in
650000+0 records out
66560000 bytes (666 MB) copied, 58.3734 s, 11.4 MB/s
Setting up swapspace version 1, size = 649996 KiB
no label, UUID=78c499ea-4280-40bc-9fc8-d826cea3d4d7
 * Stopping Handle applying cloud-config[74G[ OK ]
micro

#####
#      Setting Bitnami application password to hunter2      #
#####
[Mon Jul  4 22:13:06 UTC 2016] Regenerating keys for wordpress
[Mon Jul  4 22:13:16 UTC 2016] Regenerating keys for wordpress finished
[Mon Jul  4 22:13:16 UTC 2016] Finished regenerating keys
[Mon Jul  4 22:13:16 UTC 2016] Setting up password for mysql service
[Mon Jul  4 22:13:44 UTC 2016] Setting up password for mysql service finished
[Mon Jul  4 22:13:44 UTC 2016] Setting up password for wordpress application
[Mon Jul  4 22:13:54 UTC 2016] Setting up password for wordpress application finished
[Mon Jul  4 22:13:54 UTC 2016] Finished setting password
/opt/bitnami/mysql/scripts/ctl.sh : mysql (pid 2842) already running
/opt/bitnami/php/scripts/ctl.sh : php-fpm started
```

## 3.5 – Searching the System Log

Scroll all the way down the system log until you find the application password. Copy that, and make sure you remember it as you will need it to log into WordPress.

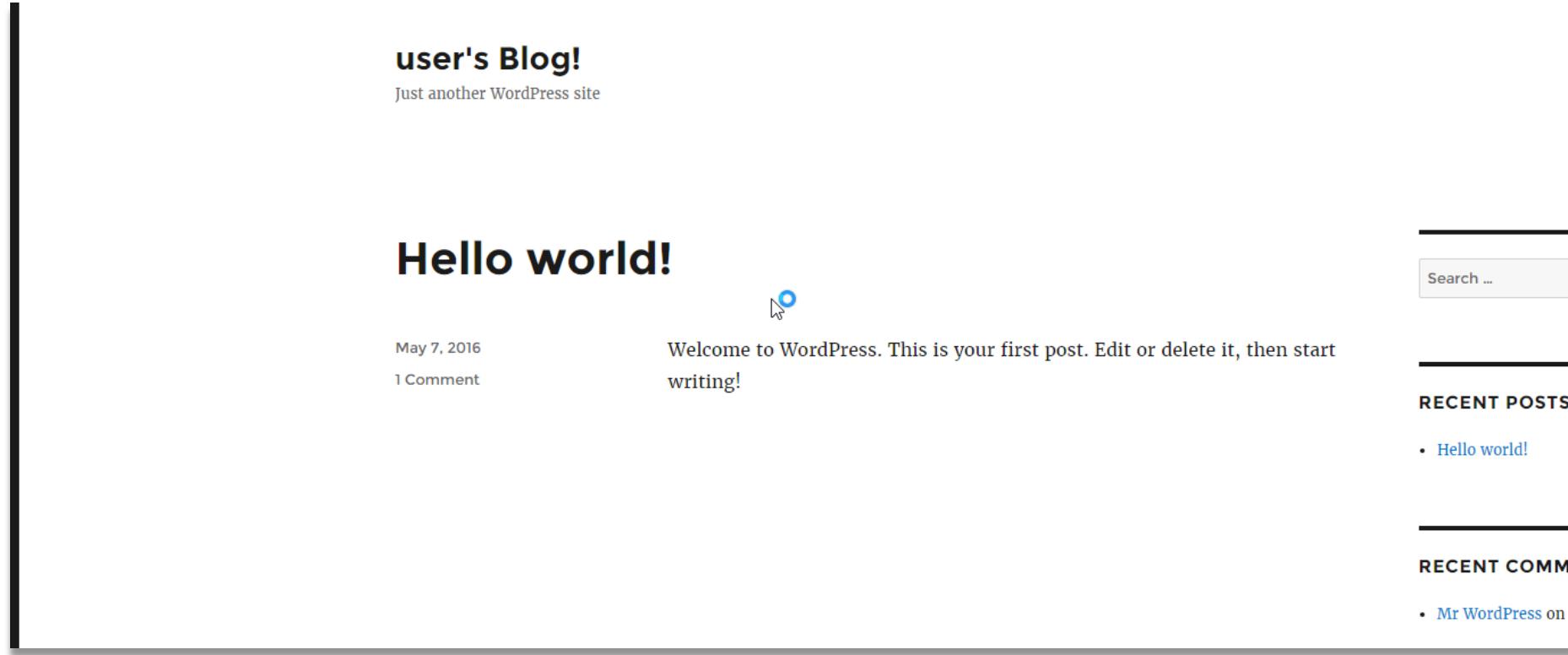
Then, exit out of the system log using the “x” at the top

The screenshot shows the AWS CloudWatch Metrics console. On the left, there's a navigation sidebar with links like Events, Tags, Reports, Limits, Instances (selected), Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, Images (AMIs, Bundle Tasks), Elastic Block Store (Volumes, Snapshots), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), Load Balancing (Load Balancers), Auto Scaling (Launch Configurations, Auto Scaling Groups), and Commands. The main area has a search bar at the top with the placeholder "Filter by tags and attributes or search by keyword". Below it is a table header with columns: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, Public IP, Key Name, Monitoring, and Launch Time. A single data row is visible, showing an instance with the following details:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP	Key Name	Monitoring	Launch Time
	i-0a8c20327e9a0352	t1.micro	us-west-2a	running	2/2 checks	None	ec2-52-27-43-22.us-west-2	52.27.43.22		disabled	July 4, 2016 at 5:10:50 PM UTC

## 3.6 – Find the public DNS

Locate the public DNS for your new server under the “Public DNS” tab. Enter that into your web browser

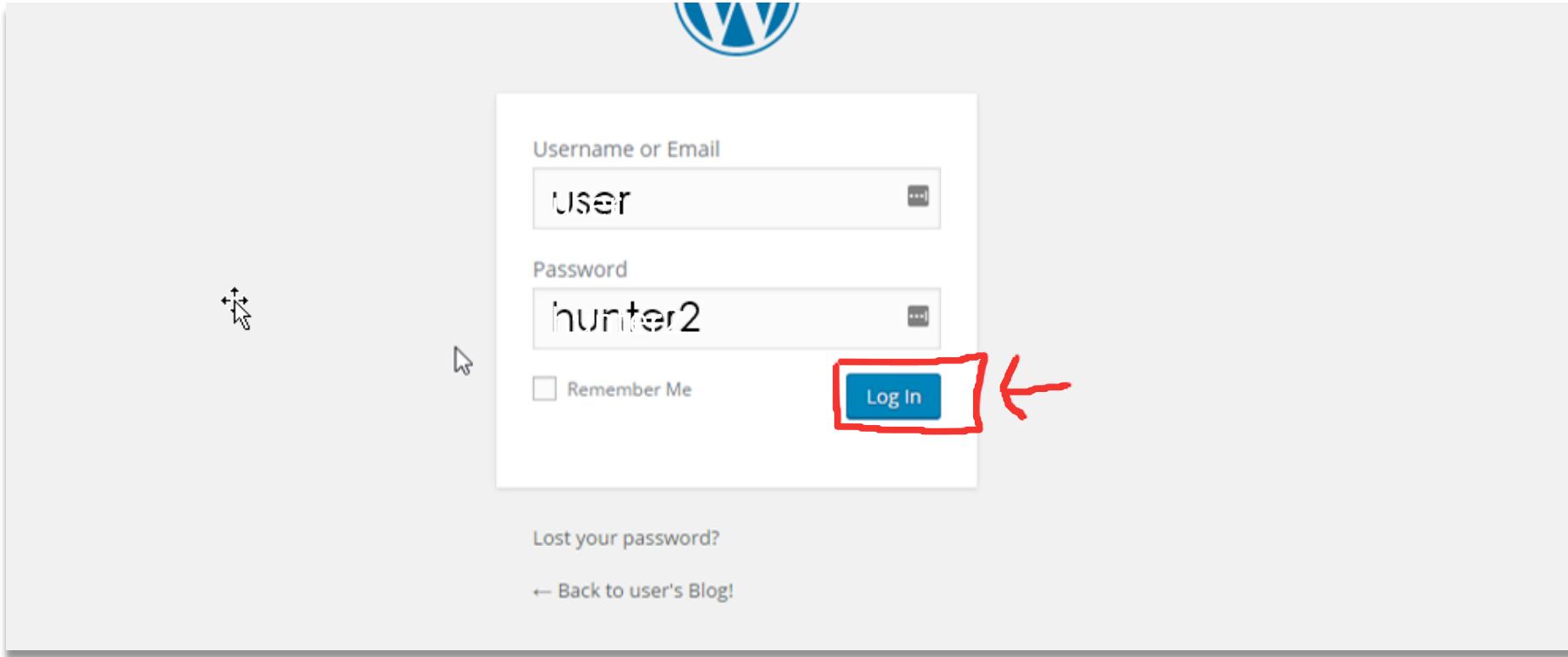


## 3.7 –View your site

Congrats! You've got a basic WordPress site!

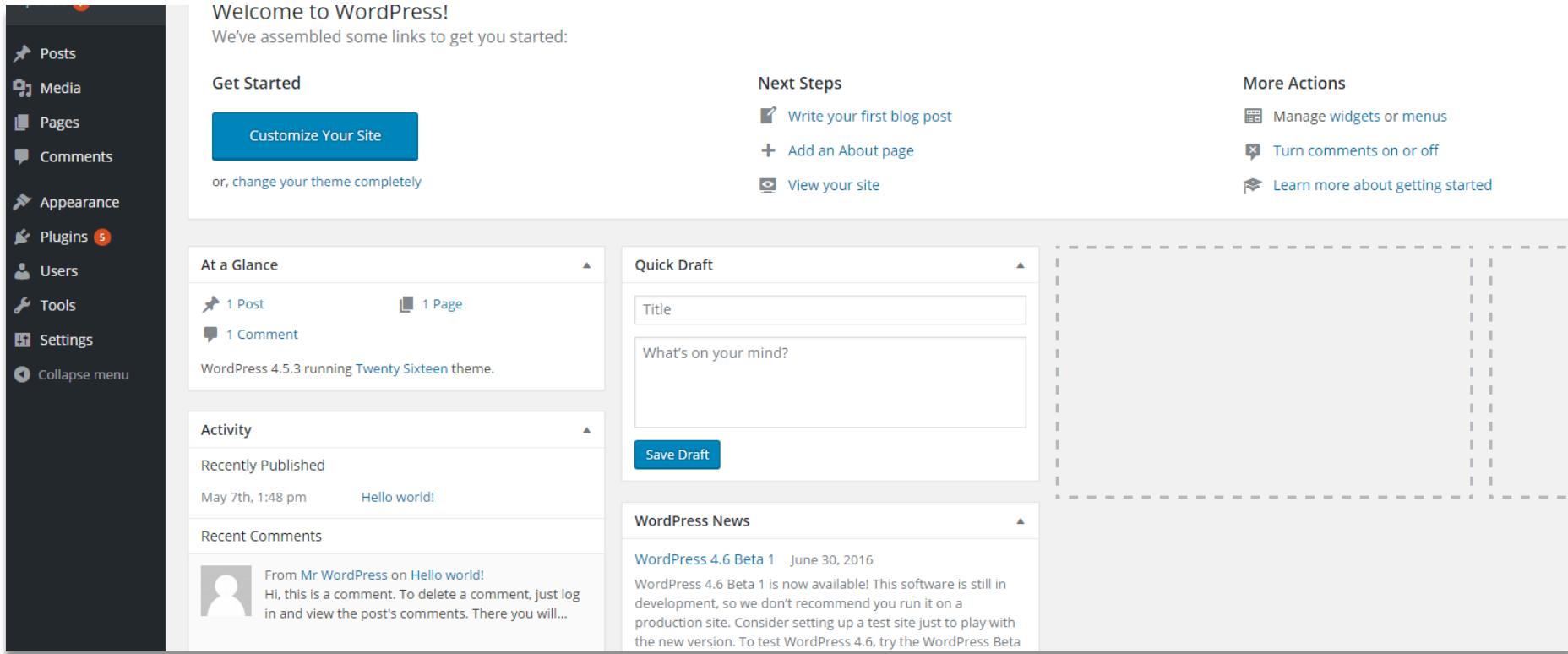
Now, to access admin controls, add “/wp-admin” to your url bar.

For example mine would look like “<http://ec2-52-27-43-22.us-west-2.compute.amazonaws.com/wp-admin>”



## 3.8 – Login to WordPress

Great, you should now see the admin login! Your username should be “user” and your password should be the one from the system log. Now enter those and log into the page with the “Log In” button



## 3.9 – You're in!

Congrats! You should now be in your WordPress control panel! Enjoy using WordPress to create websites!