

ARTH - Task 18



Task Description



🌟 Create an AWS EC2 instance

🌟 Configure the instance with Apache Webserver.

🌟 Download php application name "WordPress".

🌟 As wordpress stores data at the backend in MySQL Database server. Therefore, you need to setup a MySQL server using AWS RDS service using Free Tier.

🌟 Provide the endpoint/connection string to the WordPress application to make it work.

- Lets start by creating a DataBase using RDS on AWS. Follow below steps to get the database created.

RDS - AWS Console

Choose a database creation method

Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type

Amazon Aurora

MySQL

MariaDB

PostgreSQL

Oracle

Microsoft SQL Server

Edition

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RDS - AWS Console

Search for services, features, marketplace products, and docs [Alt+S]

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MySQL Community

Known Issues/Limitations

Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.

Version

MySQL 8.0.21

Templates

Choose a sample template to meet your use case.

Production
Use defaults for high availability and fast, consistent performance.

Dev/Test
This instance is intended for development use outside of a production environment.

Free tier
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.

Settings

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17:00 18-01-2021

RDS - AWS Console

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance#gdb=false&3-import=false

Apps Path based routing... semi-supervised le... Machine Learning ... jerry.shijie/Text_Cl...

Services Search for services, features, marketplace products, and docs [Alt+S]

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Settings

DB instance identifier [Info](#)
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

Credentials Settings

Master username [Info](#)
Type a login ID for the master user of your DB instance.

1 to 16 alphanumeric characters. First character must be a letter
 Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password

Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote)', "(double quote)" and @ (at sign).

Confirm password [Info](#)

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RDS - AWS Console

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-dbinstance#gdb=false&3-import=false

Apps Path based routing... semi-supervised le... Machine Learning ... jerry.shijie/Text_Cl...

Services Search for services, features, marketplace products, and docs [Alt+S]

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DB instance size

DB instance class [Info](#)
Choose a DB instance class that meets your processing power and memory requirements. The DB instance class options below are limited to those supported by the engine you selected above.
 Standard classes (includes m classes)
 Memory Optimized classes (includes r and x classes)
 Burstable classes (includes t classes)

1 vCPUs 1 GiB RAM Not EBS Optimized

New instance classes are available for specific engine versions. [Info](#)

Include previous generation classes

Storage

Storage type [Info](#)

Allocated storage
 GiB

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Storage autoscaling [Info](#)
Provides dynamic scaling support for your database's storage based on your application's needs.

Enable storage autoscaling
Enabling this feature will allow the storage to increase once the specified threshold is exceeded.

Availability & durability

Multi-AZ deployment [Info](#)
 Create a standby instance (recommended for production usage)
Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
 Do not create a standby instance

Connectivity

Virtual private cloud (VPC) [Info](#)
VPC that defines the virtual networking environment for this DB instance.

Default VPC (vpc-0efc1c65)

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change the VPC selection.

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RDS - AWS Console

DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

default-vpc-0efc1c65

Public access [Info](#)
 Yes
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.
 No
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

VPC security group
Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

Choose existing
Choose existing VPC security groups

Create new
Create new VPC security group

Existing VPC security groups

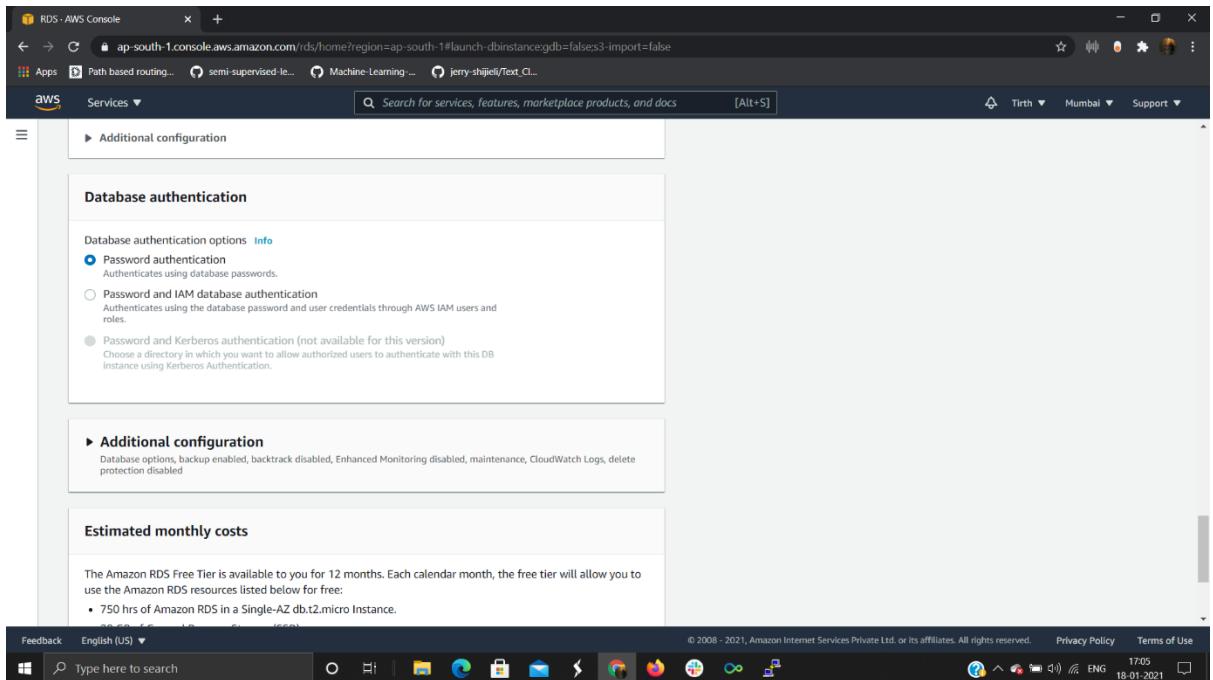
Choose VPC security groups
launch-wizard-1 default

Availability Zone [Info](#)
ap-south-1a

Additional configuration

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Note: While selecting Security Group, for now you can give all traffic for testing purpose.

Select Create Database Option and wait for some time, database will be created.

Now, Lets launch EC2 instance of Amazon Linux type and setup WordPress on top of it.

Follow below steps to get your WordPress site hosted.

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs
- Free tier only ⓘ

Image	Name	Description	Root device type	Virtualization type	ENAv Enabled	Select	64-bit (x86)	64-bit (Arm)
Amazon Linux	Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-04b1ddd35fd71475a (64-bit x86) / ami-0d5c7546de7618191 (64-bit Arm)	Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.	ebs	hvm	Yes	Select	<input checked="" type="radio"/> 64-bit (x86)	<input type="radio"/> 64-bit (Arm)
Red Hat	Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0a9d27a9f4f5c0efc	Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type	ebs	hvm	Yes	Select	<input type="radio"/> 64-bit (x86)	<input type="radio"/> 64-bit (Arm)
SUSE Linux	SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type - ami-0b3acf3edf2397475 (64-bit x86) / ami-0ab71076ab9b53b0d (64-bit Arm)	SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), EBS General Purpose (SSD) Volume Type. Amazon EC2 AMI Tools preinstalled, Apache 2.2, MySQL 5.5, PHP 5.3, and Ruby 1.8.7 available.	ebs	hvm	Yes	Select	<input type="radio"/> 64-bit (x86)	<input type="radio"/> 64-bit (Arm)

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, ~1 GiB memory; EBS only)

	Family	Type	vCPUs ⓘ	Memory (GiB)	Instance Storage (GB) ⓘ	EBS-Optimized Available ⓘ	Network Performance ⓘ	IPv6 Support ⓘ
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.3xlarge	2	~8	EBS only	-	Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of Instances	1	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot Instances	
Network	vpc-0efc1c65 (default)	<input type="button"/> Create new VPC
Subnet	subnet-bb646dd3 Default in ap-south-1a	<input type="button"/> Create new subnet 4090 IP Addresses available
Auto-assign Public IP	Use subnet setting (Enable)	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	Open	
Domain join directory	No directory	<input type="button"/> Create new directory
IAM role	None	
CPU options	<input type="checkbox"/> Specify CPU options	
Shutdown behavior	Stop	

Cancel **Previous** **Review and Launch** **Next: Add Storage**

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more about storage options in Amazon EC2.](#)

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/xvda	snap-06f54b142aaa48c61	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more about free usage tier eligibility and usage restrictions.](#)

Cancel **Previous** **Review and Launch** **Next: Add Tags**

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Windows 10 ENG 17:10 18-01-2021

Type here to search

RDS - AWS Console Launch instance wizard | EC2 ...

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Windows 10 ENG 17:10 18-01-2021

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes
Name		wpOS		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add another tag	(Up to 50 tags maximum)				

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 ID	Name	Description	Actions
sg-4f6bb228	default	default VPC security group	Copy to new
sg-01e3cddb19fec4f8b	launch-wizard-1	launch-wizard-1 created 2021-01-10T16:51:44.914+05:30	Copy to new
sg-06bc9e2adf01c1326	launch-wizard-2	launch-wizard-2 created 2021-01-18T16:27:02.433+05:30	Copy to new

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Inbound rules for sg-01e3cddb19fec4f8b (Selected security groups: sg-06bc9e2adf01c1326)

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	::/0	
SSH	TCP	22	0.0.0.0/0	

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.

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Choose an existing key pair
Select a key pair
tirth20_09

I acknowledge that I have access to the selected private key file (tirth20_09.pem), and that without this file, I won't be able to log into my instance.

Cancel **Launch Instances**

AMI Details

Amazon Linux 2 AMI (HVM), SSD Volume Type

Free tier eligible Amazon Linux 2 comes with five years support. It provides the latest security patches and software extras. This AMI is the successor of the Amazon Linux 1 AMI.

Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Work Performance **Moderate**

Edit security groups

Cancel **Previous** **Launch**

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RDS - AWS Console **Instances | EC2 Management Con...**

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New EC2 Experience **Tell us what you think**

EC2 Dashboard **New**

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- Tags
- Limits
- Instances**
 - Instances** **New**
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 - Launch Templates
 - Spot Requests
 - Savings Plans
 - Reserved Instances
 - Dedicated Hosts **New**
 - Capacity Reservations
- Images**
 - AMIs
- Elastic Block Store**
 - Volumes
 - Snapshots

Instances (1/1) Info

Actions **Launch Instances**

Connect **Instance state**

Filter instances **Clear filters**

search: i-019b537305ee363c1

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
wpOS	i-019b537305ee363c1	Running	t2.micro	2/2 checks ...	No alarms

Connect **View details** **Manage instance state** **Instance settings** **Networking** **Security** **Image and templates** **Monitor and troubleshoot**

Public IPv4 DNS **2-13-255-241-14**

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RDS - AWS Console | Connect to instance | EC2 Manager | i-019b337305ee363c1 (wpOS) | +

Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-36-17 ~]\$ sudo su
[root@ip-172-31-36-17 ec2-user]# yum install mysql -y **Install mysql**
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package mariadb.x86_64 1:5.5.68-1.amzn2 will be installed
--> Finished Dependency Resolution
Dependencies Resolved
=====
Package Arch Version Repository Size
=====
Installing: mariadb x86_64 1:5.5.68-1.amzn2 amzn2-core 8.8 M
Transaction Summary
=====
Install 1 Package
Total download size: 8.8 M
Installed size: 49 M
Downloading packages:
mariadb-5.5.68-1.amzn2.x86_64.rpm | 8.8 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
Verifying : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1

i-019b337305ee363c1 (wpOS)

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

Type here to search | RDS - AWS Console | Connect to instance | EC2 Manager | i-019b337305ee363c1 (wpOS) | + | 17:18 18-01-2021 | Apps Path based routing... semi-supervised le... Machine Learning... jerry.shijie/Tex...

--> Running transaction check
[root@ip-172-31-36-17 ec2-user]# amazon-linux-extras install php7.2 **Install php for WordPress**
Installing php-pdo, php-fpm, php-mysqlnd, php-cli, php-json
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-php7.2
12 metadata files removed
4 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
amzn2extra-docker
amzn2extra-php7.2
(1/7): amzn2-core/2/x86_64/group_gz 3.7 kB 00:00:00
(2/7): amzn2-core/2/x86_64/updateinfo 3.0 kB 00:00:00
(3/7): amzn2extra-php7.2/2/x86_64-primary_db 3.0 kB 00:00:00
(4/7): amzn2extra-docker/2/x86_64/updateinfo 2.5 kB 00:00:00
(5/7): amzn2extra-php7.2/2/x86_64/updateinfo 326 kB 00:00:00
(6/7): amzn2extra-docker/2/x86_64-primary_db 580 kB 00:00:00
(7/7): amzn2-core/2/x86_64-primary_db 76 B 00:00:00
Resolving Dependencies
--> Running transaction check
--> Package php-cli.x86_64 0:7.2.34-1.amzn2 will be installed
--> Processing Dependency: php-common(x86-64) = 7.2.34-1.amzn2 for package: php-cli-7.2.34-1.amzn2.x86_64
--> Package php-fpm.x86_64 0:7.2.34-1.amzn2 will be installed
--> Package php-json.x86_64 0:7.2.34-1.amzn2 will be installed
--> Package php-mysqlnd.x86_64 0:7.2.34-1.amzn2 will be installed
--> Package php-pdo.x86_64 0:7.2.34-1.amzn2 will be installed
--> Running transaction check
--> Package php-common.x86_64 0:7.2.34-1.amzn2 will be installed
--> Processing Dependency: libzip.so.5()(64bit) for package: php-common-7.2.34-1.amzn2.x86_64
--> Running transaction check
--> Package libzip.x86_64 0:1.3.2-1.amzn2.0.1 will be installed

i-019b337305ee363c1 (wpOS)

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

Type here to search | RDS - AWS Console | Connect to instance | EC2 Manager | i-019b337305ee363c1 (wpOS) | + | 17:20 18-01-2021 | Apps Path based routing... semi-supervised le... Machine Learning... jerry.shijie/Tex...

```
[root@ip-172-31-36-17 ec2-user]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.46.1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.46.1.amzn2 for package: httpd-2.4.46.1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.46.1.amzn2 for package: httpd-2.4.46.1.amzn2.x86_64
--> Processing Dependency: system-logos-httdp for package: httpd-2.4.46.1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.46.1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.46.1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.46.1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.46.1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.46.1.amzn2.x86_64
--> Running transaction check
--> Package apr.x86_64 0:1.6.3-5.amzn2.0.2 will be installed
--> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
--> Package generic-logos-httdp.noarch 0:18.0.0-4.amzn2 will be installed
--> Package httpd-filesystem.noarch 0:2.4.46.1.amzn2 will be installed
--> Package httpd-tools.x86_64 0:2.4.46.1.amzn2 will be installed
--> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
--> Package mod_http2.x86_64 0:1.15.14-2.amzn2 will be installed
--> Running transaction check
--> Package apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version        Repository      Size
=====
Installing:
=====
i-019b337305ee363c1 (wpOS)
```

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

```
[root@ip-172-31-36-17 ec2-user]# cd /var/www/html
[root@ip-172-31-36-17 html]#
[root@ip-172-31-36-17 html]# wget https://wordpress.org/latest.tar.gz
--2021-01-18 11:53:33-- https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response...
```

i-019b337305ee363c1 (wpOS)

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17



```
[root@ip-172-31-36-17 ec2-user]# cd /var/www/html
[root@ip-172-31-36-17 html]# wget https://wordpress.org/latest.tar.gz
[root@ip-172-31-36-17 html]# wget https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 15422346 (15M) [application/octet-stream]
Saving to: 'latest.tar.gz'

100%[=====] 15,422,346 4.65MB/s in 3.2s

2021-01-18 11:53:37 (4.65 MB/s) - 'latest.tar.gz' saved [15422346/15422346]

[root@ip-172-31-36-17 html]# ls
latest.tar.gz
[root@ip-172-31-36-17 html]# tar -xvf latest.tar.gz
```

i-019b337305ee363c1 (wpOS)

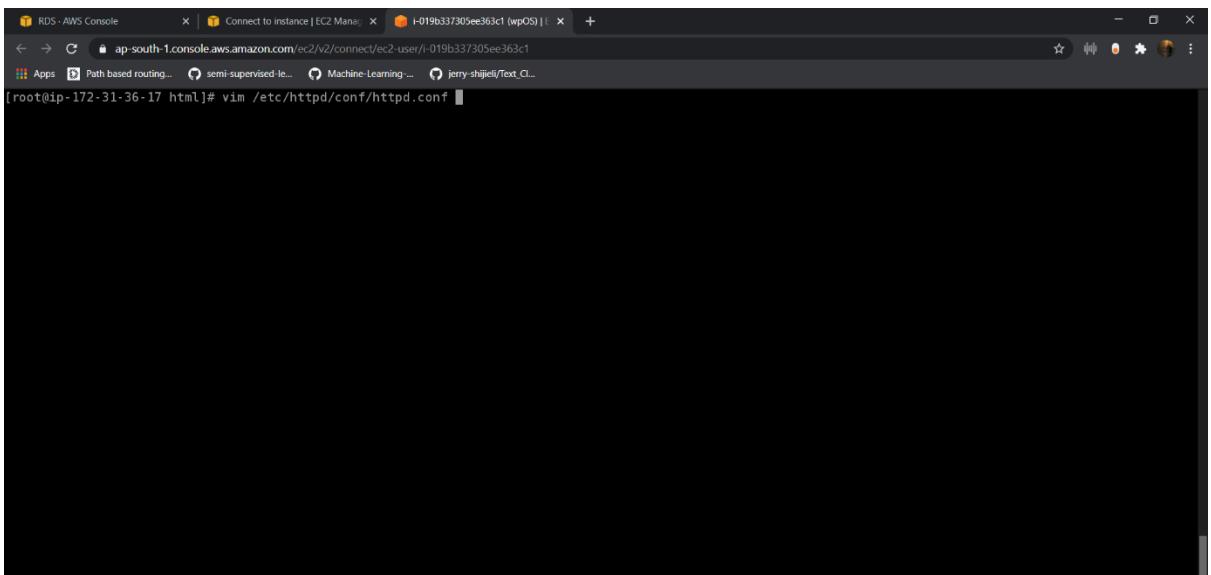
Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

```
wordress/wp-admin/js/media-gallery.min.js
wordress/wp-admin/js/common.min.js
wordress/wp-admin/js/tags-box.min.js
wordress/wp-admin/js/svg-painter.min.js
wordress/wp-admin/js/custom-background.js
wordress/wp-admin/js/color-picker.min.js
wordress/wp-admin/js/auth-app.js
wordress/wp-admin/js/code-editor.js
wordress/wp-admin/js/common.js
wordress/wp-admin/js/set-post-thumbnail.min.js
wordress/wp-admin/js/postbox.min.js
wordress/wp-admin/js/color-picker.js
wordress/wp-admin/js/password-strength-meter.js
wordress/wp-admin/js/customize-nav-menus.js
wordress/wp-admin/js/editor-expand.js
wordress/wp-admin/js/code-editor.min.js
wordress/wp-admin/js/set-post-thumbnail.js
wordress/wp-admin/options-permalink.php
wordress/wp-admin/widgets.php
wordress/wp-admin/setup-config.php
wordress/wp-admin/install.php
wordress/wp-admin/admin-header.php
wordress/wp-admin/post-new.php
wordress/wp-admin/themes.php
wordress/wp-admin/options-reading.php
wordress/wp-trackback.php
wordress/wp-comments-post.php
[root@ip-172-31-36-17 html]# ls
latest.tar.gz  wordpress
[root@ip-172-31-36-17 html]#
[root@ip-172-31-36-17 html]#
[root@ip-172-31-36-17 html]#
```

i-019b337305ee363c1 (wpOS)

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17





i-019b337305ee363c1 (wpOS)

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

```
# Further relax access to the default document root:
<Directory "/var/www/html">
    #
    # Possible values for the Options directive are "None", "All",
    # or any combination of:
    # or any combination of:
    #   Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCGI MultiViews
    #
    # Note that "MultiViews" must be named *explicitly* --- "Options All"
    # doesn't give it to you.
    #
    # The Options directive is both complicated and important. Please see
    # http://httpd.apache.org/docs/2.4/mod/core.html#options
    # for more information.
    Options Indexes FollowSymLinks

    #
    # AllowOverride controls what directives may be placed in .htaccess files.
    # It can be "All", "None", or any combination of the keywords:
    #   Options FileInfo AuthConfig Limit
    #
    AllowOverride All
    Set
    AllowOverride All
    #
    # Controls who can get stuff from this server.
    #
    Require all granted
</Directory>

#
# DirectoryIndex: sets the file that Apache will serve if a directory
-- INSERT --
```

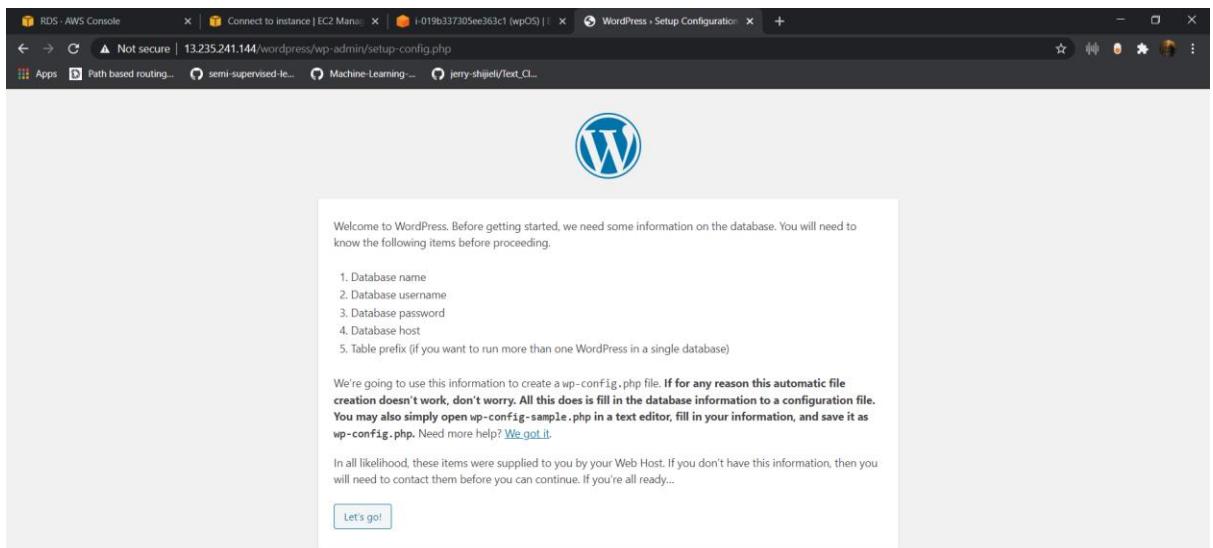
151,22 38%

i-019b337305ee363c1 (wpOS)

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

17:27 18-01-2021

Run command: **systemctl enable httpd –now** to start webserver and you can see your site hosted on **ip/wordpress URL**.



Amazon RDS

Summary

DB identifier	CPU	Status	Class
wpdb	2.17%	Available	db.t2.micro
Role	Current activity	Engine	Region & AZ
Instance	0 Connections	MySQL Community	ap-south-1

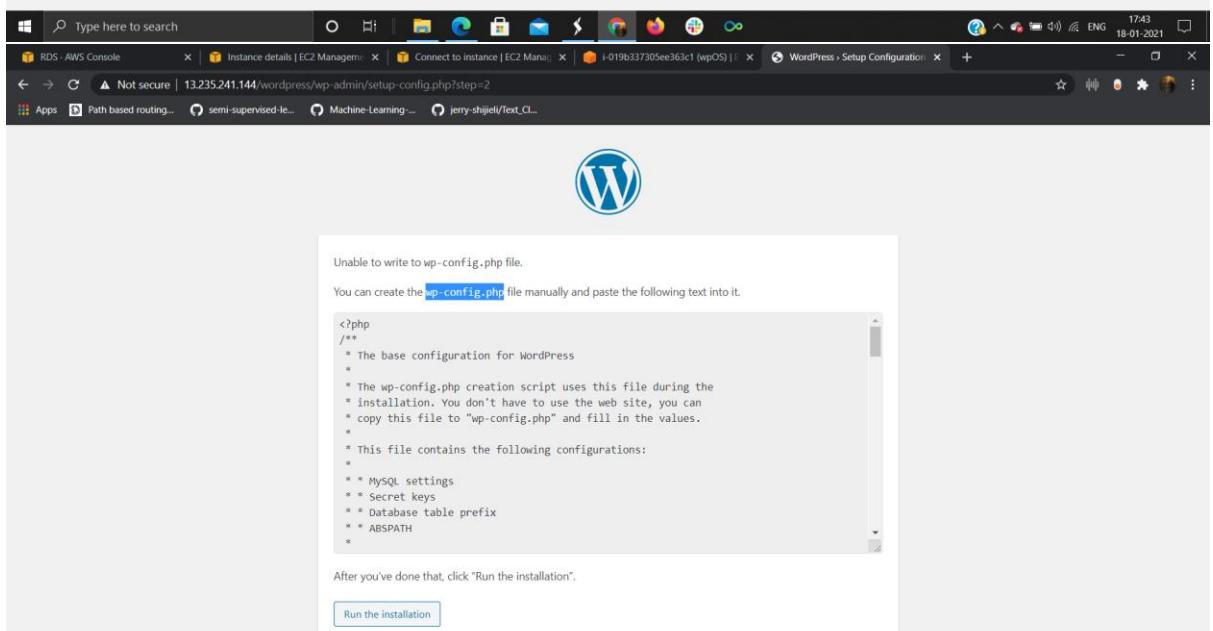
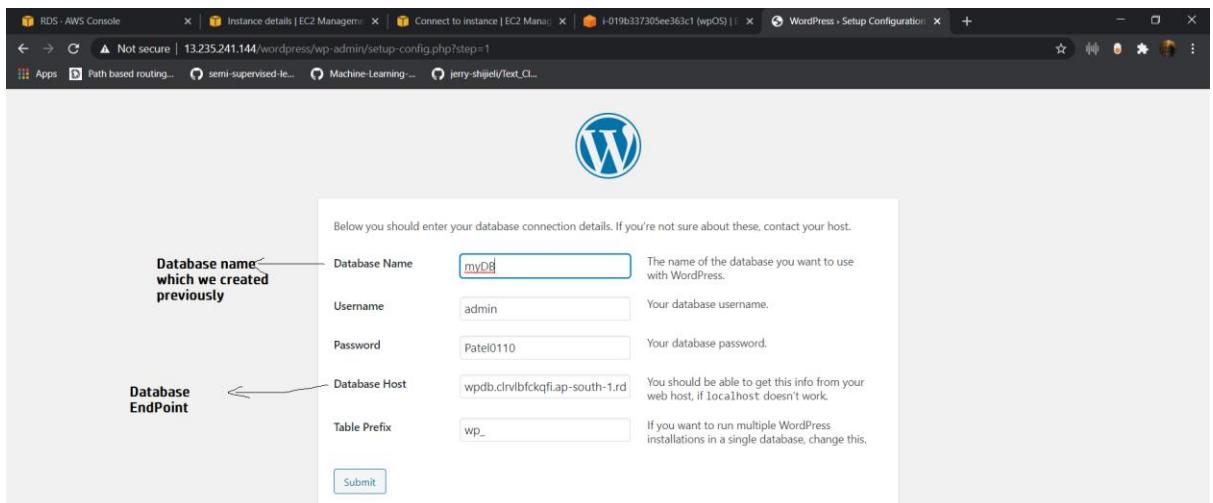
Connectivity & security

Endpoint & port	Networking	Security
Endpoint wpdb.crvlbfcqft.ap-south-1.rds.amazonaws.com	Availability zone ap-south-1a	VPC security groups launch-wizard-1 (sg-01e3cddb19fec4f8b) (active) default (sg-4f66b228) (active)
Port 3306	VPC vpc-0efc1c65	Public accessibility No
	Subnet group default-vpc-0efc1c65	Certificate authority
	Subnets	

```
[root@ip-172-31-36-17 ~]# mysql -h wpdb.clrvlbfcqf1.ap-south-1.rds.amazonaws.com -u admin -p  
Enter password:  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MySQL connection id is 17  
Server version: 8.0.21 Source distribution  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
MySQL [(none)]> 
```

```
i-019b337305ee363c1 (wpOS)  
Public IPs: 13.235.241.144 Private IPs: 172.31.36.17  
  
[root@ip-172-31-36-17 ~]# mysql -h wpdb.clrvlbfcqf1.ap-south-1.rds.amazonaws.com -u admin -p  
Enter password:  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MySQL connection id is 20  
Server version: 8.0.21 Source distribution  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
MySQL [(none)]> CREATE DATABASE myDB;  
Query OK, 1 row affected (0.00 sec) >>> Create DataBase  
MySQL [(none)]> 
```

```
i-019b337305ee363c1 (wpOS)  
Public IPs: 13.235.241.144 Private IPs: 172.31.36.17
```



```

[root@ip-172-31-36-17 html]# cat > wp-content/wp-config.php
wp-config-sample.php  wp-content/
[root@ip-172-31-36-17 html]# cat > wp-content/wp-config.php
/* The base configuration for WordPress
 *
 * The wp-config.php creation script uses this file during the
 * installation. You don't have to use the web site, you can
 * copy this file to "wp-config.php" and fill in the values.
 *
 * This file contains the following configurations:
 *
 * * MySQL settings
 * * Secret keys
 * * Database table prefix
 * * ABSPATH
 *
 * @link https://wordpress.org/support/article/editing-wp-config-php/
 * @package WordPress
 */

// ** MySQL settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'myDB' );

/** MySQL database username */
define( 'DB_USER', 'admin' );

/** MySQL database password */
define( 'DB_PASSWORD', 'Patel0110' );

```

i-019b337305ee363c1 (wpOS)

Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

Welcome

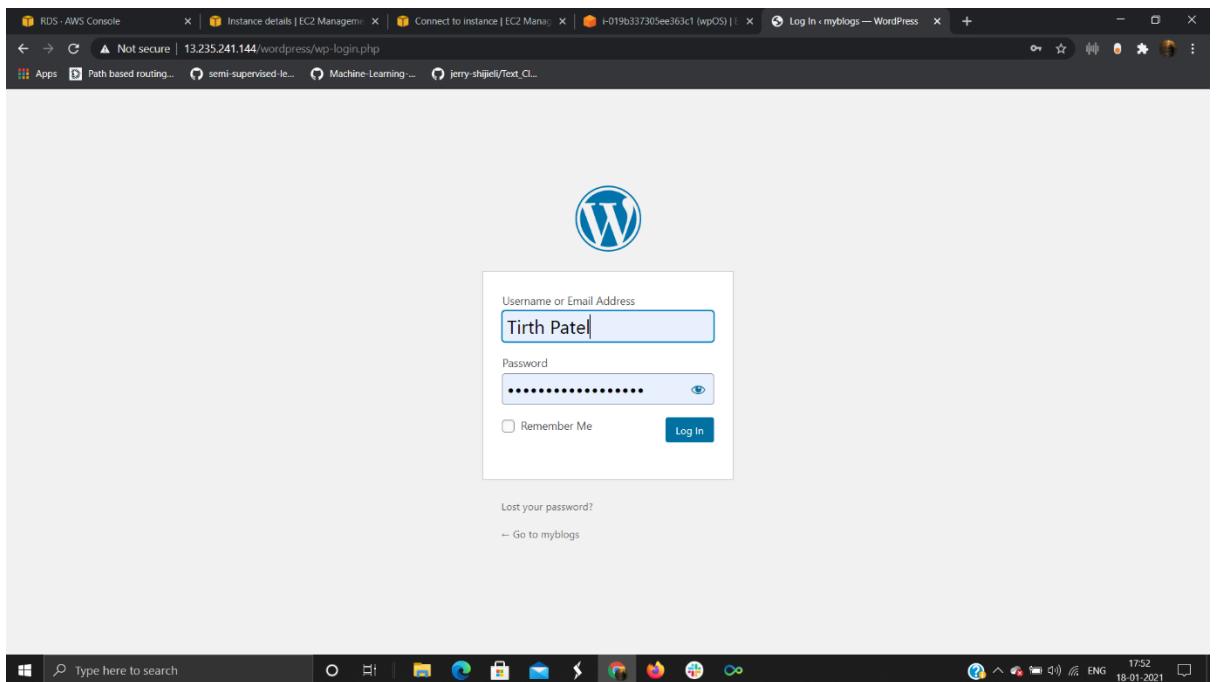
Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title	<input type="text" value="myblogs"/>
Username	<input type="text" value="Tirth Patel"/>
Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.	
Password	<input type="password" value="51pF^hiTHlJ3jGtnw"/> Strong Hide
Important: You will need this password to log in. Please store it in a secure location.	
Your Email	<input type="text" value="tirth1272@gmail.com"/>
Double-check your email address before continuing.	
Search engine visibility	<input type="checkbox"/> Discourage search engines from indexing this site It is up to search engines to honor this request.

Install WordPress



In the above steps, we have created a Database myDB where all the data of our WordPress site will be stored.

Now, lets create a blog and check whether the tables for different components of blogs is created or not.

The image shows two screenshots of a Windows desktop environment displaying a web browser with the WordPress dashboard and a post editor.

Top Screenshot (WordPress Dashboard):

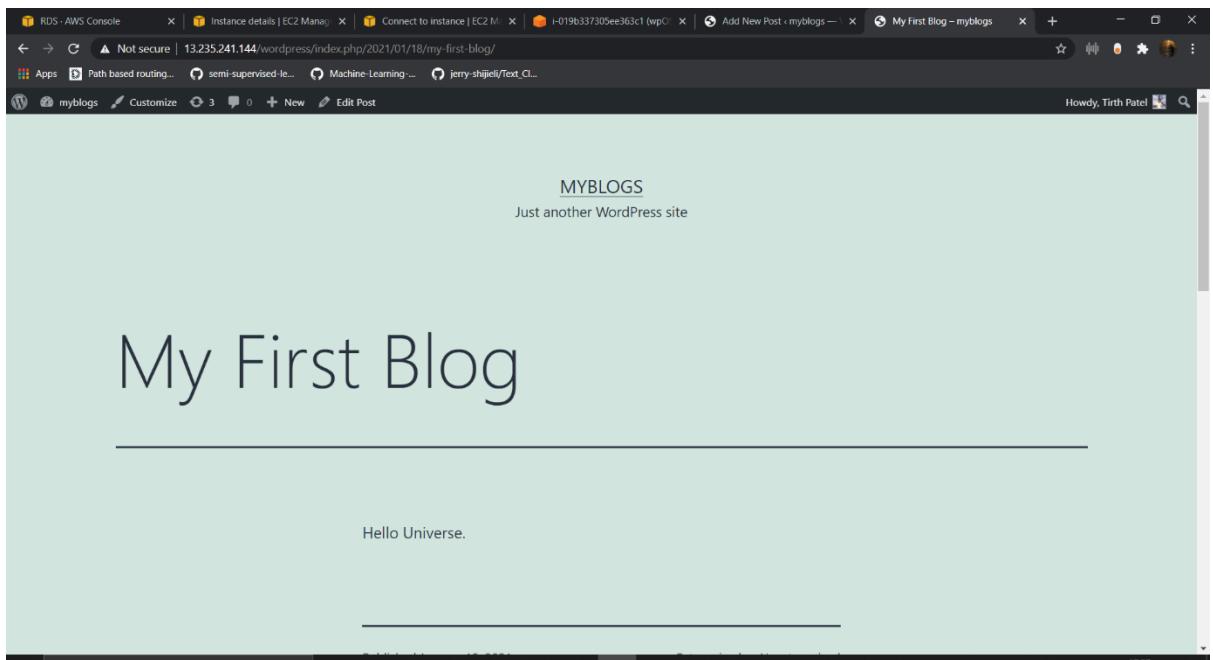
- Header:** RDS - AWS Console, Instance details | EC2 Manager, Connect to instance | EC2 Manager, I-019b337305ee363c1 (wpOS), Dashboard - myblogs — WordPress.
- User:** Howdy, Tirth Patel
- Toolbar:** Screen Options, Help.
- Left Sidebar:** Home, Updates (3), Posts, Media, Pages, Comments, Appearance, Plugins (1), Users, Tools, Settings, Collapse menu.
- Dashboard Content:**
 - Welcome to WordPress!**: We've assembled some links to get you started.
 - Get Started**: Customize Your Site, or, change your theme completely.
 - Next Steps**: Write your first blog post, Add an About page, Set up your homepage, View your site.
 - More Actions**: Manage widgets, Manage menus, Turn comments on or off, Learn more about getting started.
- Site Health Status**: No information yet.. Site health checks will automatically run periodically to gather information about your site. You can also visit the Site Health screen to gather information about your site now.
- At a Glance**: 1 Post, 1 Page, 1 Comment.
- Quick Draft**: Title, Content, What's on your mind?, Save Draft.
- Right Panel:** Drag boxes here.

Bottom Screenshot (Post Editor):

- Header:** 13.235.241.144/wordpress/wp-admin/post-new.php, Type here to search, RDS - AWS Console, Instance details | EC2 Manager, Connect to instance | EC2 Manager, I-019b337305ee363c1 (wpOS), Add New Post < myblogs — WordPress.
- User:** Howdy, Tirth Patel
- Toolbar:** Save draft, Preview, Publish, Post (selected), Block.
- Post Content:**

My First Blog

Hello Universe.
- Post Metaboxes:**
 - Status & visibility**: Visibility: Public, Publish: Immediately.
 - Post Format**: Standard.
 - Post Options**: Stick to the top of the blog, Pending review, Move to trash.
 - Permalink**.
 - Categories**.
 - Tags**.
 - Featured image**.
 - Excerpt**.



```

Type here to search
RDS - AWS Console Instance details | EC2 Manager Connect to instance | EC2 M... i-019b337305ee363c1 (wpOS) Add New Post - myblogs My First Blog - myblogs
Apps Path based routing... semi-supervised le... Machine-Learning... jerry.shijie/Tex...
13.235.241.144/wordpress/index.php/2021/01/18/my-first-blog/
Howdy, Tirth Patel

MYBLOGS
Just another WordPress site

My First Blog

Hello Universe.

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> show tables;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'B' at line 1
MySQL [(none)]> use myDB;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MySQL [myDB]> show tables;
+-----+
| Tables_in_myDB |
+-----+
| wp_commentmeta |
| wp_comments |
| wp_links |
| wp_options |
| wp_postmeta |
| wp_posts |
| wp_term_relationships |
| wp_term_taxonomy |
| wp_termmeta |
| wp_terms |
| wp_usermeta |
| wp_users |
+-----+
12 rows in set (0.01 sec)

MySQL [myDB]>

i-019b337305ee363c1 (wpOS)
Public IPs: 13.235.241.144 Private IPs: 172.31.36.17

```

tables created for the blog which we write on Wordpress

So, we find that different tables consisting of comments, posts etc are created. Hence, we have successfully integrated a MySQL Database running using RDS on AWS with the WordPress WebServer running on EC2 instance on AWS.

Thank You!!