

# ARTH

## Task -18

- Deploying wordpress on AWS using RDS service

step 1:

create an ec2 instance

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

**Step 1: Choose an Amazon Machine Image (AMI)** Cancel and Exit

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" X

Search by Systems Manager parameter

**Quick Start** < 1 to 39 of 39 AMIs >

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only 1

**Amazon Linux** Free tier eligible **Amazon Linux 2 AMI (HVM), SSD Volume Type** - ami-04b1ddd35fd71475a (64-bit x86) / ami-0d5c7546de7618191 (64-bit Arm) Select

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.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

**Red Hat** Free tier eligible **Red Hat Enterprise Linux 8 (HVM), SSD Volume Type** - ami-0a9d27a9f4f5c0efc Select

Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

**SUSE Linux** Free tier eligible **SUSE Linux Enterprise Server 15 SP2 (HVM), SSD Volume Type** - ami-0b3acf3edf2397475 (64-bit x86) / ami-0ab71076ab9b53b0d (64-bit Arm) Select

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.

☐ 64-bit (x86) ☐ 64-bit (Arm)

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

**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 (GiB)	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"/>	t3	t3.nano	2	2	EBS only	-	Low to Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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.

Add another tag (Up to 50 tags maximum)

✔ **Your instances are now launching**  
The following instance launches have been initiated: `i-0f9564ecd10557ed5` [View launch log](#)

ℹ **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).

## Our instance launched and running.

## Configuring webserver in the launched instance

[illegible]

```
[root@ip-172-31-36-189 ~]# cd /var/www/html
[root@ip-172-31-36-189 html]# systemctl start httpd
[root@ip-172-31-36-189 html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
   Active: active (running) since Sat 2021-01-23 16:24:08 UTC; 8s ago
     Docs: man:httpd.service(8)
  Main PID: 3794 (httpd)
    Status: "Processing requests..."
    CGroup: /system.slice/httpd.service
            └─3794 /usr/sbin/httpd -DFOREGROUND
              └─3795 /usr/sbin/httpd -DFOREGROUND
                └─3796 /usr/sbin/httpd -DFOREGROUND
                  └─3797 /usr/sbin/httpd -DFOREGROUND
                    └─3798 /usr/sbin/httpd -DFOREGROUND
                      └─3799 /usr/sbin/httpd -DFOREGROUND

Jan 23 16:24:08 ip-172-31-36-189.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Jan 23 16:24:08 ip-172-31-36-189.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-36-189 html]#
```

## Step 3 :

## Download Wordpress PHP application

```
[root@ip-172-31-36-189 html]# amazon-linux-extras install php7.4
```

```
[root@ip-172-31-36-189 html]# amazon-linux-extras install php7.4
Installing php-pdo, php-fpm, php-mysqldb, php-cli, php-json
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-docker amzn2extra-epel amzn2extra-php7.4 epel
23 metadata files removed
8 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
amzn2extra-docker | 3.0 kB 00:00:00
amzn2extra-epel | 3.0 kB 00:00:00
amzn2extra-php7.4 | 3.0 kB 00:00:00
epel/x86_64/metalink | 9.0 kB 00:00:00
epel | 4.7 kB 00:00:00
(1/12): amzn2-core/2/x86_64/group_gz | 2.5 kB 00:00:00
(2/12): amzn2-core/2/x86_64/updateinfo | 326 kB 00:00:00
(3/12): amzn2extra-epel/2/x86_64/primary_db | 1.8 kB 00:00:00
(4/12): amzn2extra-php7.4/2/x86_64/updateinfo | 76 B 00:00:00
(5/12): amzn2extra-php7.4/2/x86_64/primary_db | 186 kB 00:00:00
(6/12): amzn2extra-docker/2/x86_64/updateinfo | 76 B 00:00:00
(7/12): amzn2extra-docker/2/x86_64/primary_db | 74 kB 00:00:00
(8/12): amzn2extra-epel/2/x86_64/updateinfo | 76 B 00:00:00
(9/12): amzn2-core/2/x86_64/primary_db | 48 MB 00:00:00
(10/12): epel/x86_64/group_gz | 95 kB 00:00:01
(11/12): epel/x86_64/updateinfo | 1.0 MB 00:00:02
(12/12): epel/x86_64/primary_db | 96% [===== ] 5.5 MB/s | 55 MB 00:00:00 ETA
```

```
[root@ip-172-31-36-189 html]# curl https://wordpress.org/latest.tar.gz --output wordpress.tar.gz
```

```
[root@ip-172-31-36-189 html]# curl https://wordpress.org/latest.tar.gz --output wordpress.tar.gz
% Total    % Received % Xferd Average Speed   Time    Time     Time  Current
           Dload  Upload   Total             Spent    Left     Speed
100 14.7M  100 14.7M    0     0  3680k      0  0:00:04  0:00:04 --:--:-- 3680k
[root@ip-172-31-36-189 html]# tar xvf wordpress.tar.gz
```

## Step 4:

## Setting up database In aws


Choose a database creation method
[Info](#)


☒ 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
[Info](#)


☐ Amazon Aurora  


☒ MySQL  


☐ MariaDB  


☐ PostgreSQL  


☐ Oracle  


☐ Microsoft SQL Server  


Version

MySQL 5.7.30

 MySQL engine versions earlier than 8.0.17 don't support the newest m6g or r6g generation instance classes.

### 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. [Info](#)

### 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.

wordpressdb

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.

admin

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](#)

\*\*\*\*\*

#### 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

default X

#### Availability Zone [Info](#)

ap-south-1a

#### ▼ Additional configuration

##### Database port [Info](#)

TCP/IP port that the database will use for application connections.

3306

## Database options

Initial database name [Info](#)

kkdb

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)

default.mysql5.7

Option group [Info](#)


default:mysql-5-7

## Backup

Creates a point-in-time snapshot of your database

☒ Enable automatic backups

Enabling backups will automatically create backups of your database during a certain time window.

 Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to details [here](#).

Backup retention period [Info](#)

Choose the number of days that RDS should retain automatic backups for this instance.

7 days

RDS > Databases

Databases Group resources Refresh Modify Actions Restore from S3 Create database

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU
wordpressdb	Instance	MySQL Community	ap-south-1a	db.t2.micro	Creating	-

```
[root@ip-172-31-36-189 ~]# yum install php-mysqldb
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
218 packages excluded due to repository priority protections
Package php-mysqldb-7.4.11-1.amzn2.x86_64 already installed and latest version
Nothing to do
[root@ip-172-31-36-189 ~]#
```

## Installing Mysql in ec2 instance for database access

```
[root@ip-172-31-36-189 ~]# yum install mysql -y
```

```
complete!  
[root@ip-172-31-36-189 ~]# mysql -h wordpressdb.cjtueszujkqo.ap-south-1.rds.amazonaws.com -u admin -p  
Enter password: █
```

```
Enter password.  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MySQL connection id is 12  
Server version: 5.7.30-log 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)]>  
MySQL [(none)]>  
MySQL [(none)]> █
```

```
MySQL [(none)]> show databases;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| innodb |  
| kkdb |  
| mysql |  
| performance_schema |  
| sys |  
+-----+  
6 rows in set (0.00 sec)
```

```
MySQL [(none)]> create database wpdb;  
Query OK, 1 row affected (0.00 sec)  
  
MySQL [(none)]> █
```

## Now setting up the wordpress


## Index of /wordpress

Name	Last modified	Size	Description
 <a href="#">Parent Directory</a>		-	
 <a href="#">index.php</a>	2020-02-06 06:33	405	
 <a href="#">license.txt</a>	2020-02-12 11:54	19K	
 <a href="#">readme.html</a>	2020-06-26 13:58	7.1K	
 <a href="#">wp-activate.php</a>	2020-07-28 17:20	6.9K	
 <a href="#">wp-admin/</a>	2020-12-08 22:13	-	
 <a href="#">wp-blog-header.php</a>	2020-02-06 06:33	351	
 <a href="#">wp-comments-post.php</a>	2020-10-08 21:15	2.3K	
 <a href="#">wp-config-sample.php</a>	2020-02-06 06:33	2.8K	
 <a href="#">wp-content/</a>	2020-12-08 22:13	-	
 <a href="#">wp-cron.php</a>	2020-07-30 19:14	3.8K	
 <a href="#">wp-includes/</a>	2020-12-08 22:13	-	
 <a href="#">wp-links-opml.php</a>	2020-02-06 06:33	2.4K	
 <a href="#">wp-load.php</a>	2020-02-06 06:33	3.2K	
 <a href="#">wp-login.php</a>	2020-11-09 10:53	49K	
 <a href="#">wp-mail.php</a>	2020-04-14 11:32	8.3K	
 <a href="#">wp-settings.php</a>	2020-11-12 14:43	20K	
 <a href="#">wp-signup.php</a>	2020-09-30 21:54	31K	
 <a href="#">wp-trackback.php</a>	2020-10-08 21:15	4.6K	
 <a href="#">xmlrpc.php</a>	2020-06-08 19:55	3.2K	



Not secure | 13.232.213.44/wordpress/wp-admin/setup-config.php

ee Computer, Pro... EduLib.in IBM Cloud Account IBM Watson Studio Circuits Editing Co... IoT Developer Prot... IBM Watson Studio A free online cours... AWS Management...



Welcome to WordPress. Before getting started, we need some information on the database. You will need to know the following items before proceeding.

1. Database name
2. Database username
3. Database password
4. Database host
5. Table prefix (if you want to run more than one WordPress in a single database)

We're going to use this information to create a wp-config.php file. **If for any reason this automatic file creation doesn't work, don't worry. All this does is fill in the database information to a configuration file. You may also simply open wp-config-sample.php in a text editor, fill in your information, and save it as wp-config.php.** Need more help? [We got it.](#)

In all likelihood, these items were supplied to you by your Web Host. If you don't have this information, then you will need to contact them before you can continue. If you're all ready...

[Let's go!](#)

Below you should enter your database connection details. If you're not sure about these, contact your host.

Database Name	<input type="text" value="wpdb"/>	The name of the database you want to use with WordPress.
Username	<input type="text" value="admin"/>	Your database username.
Password	<input type="password" value="REDACTED"/>	Your database password.
Database Host	<input type="text" value="wordpressdb.chutes.com:3306"/>	You should be able to get this info from your web host, if localhost doesn't work.
Table Prefix	<input type="text" value="wp_"/>	If you want to run multiple WordPress installations in a single database, change this.

[Submit](#)

Make sure the credentials are correct !

Thank you