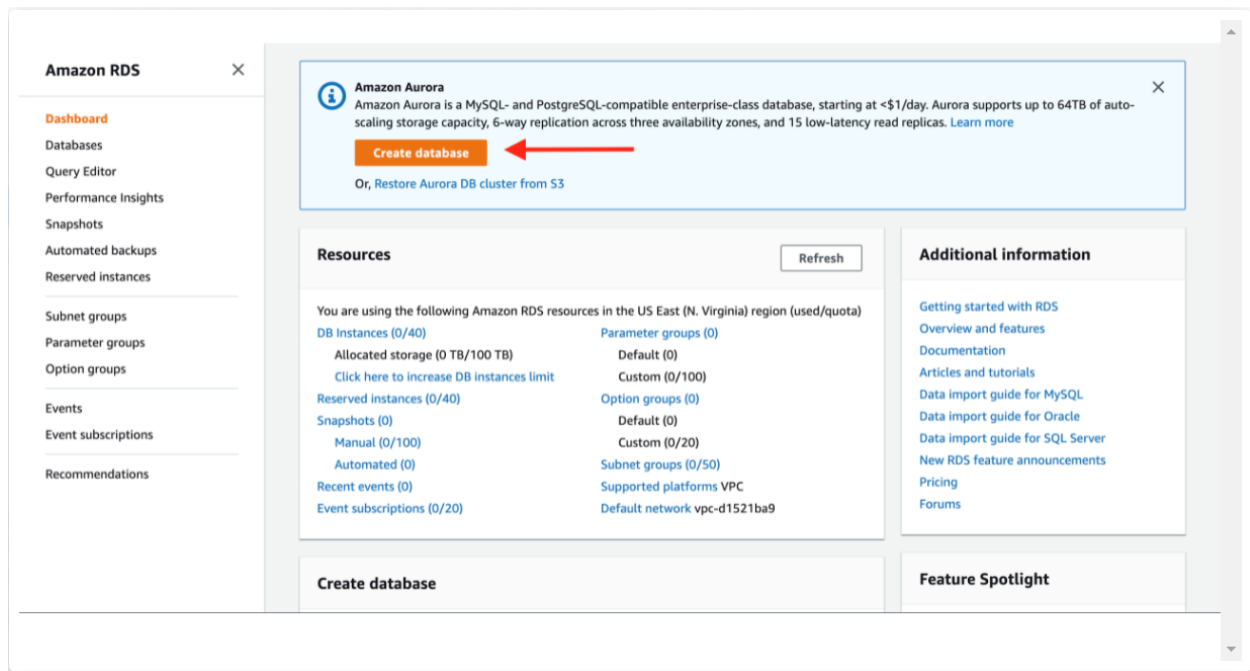


ลองติดตั้ง ติดตั้ง wordpress บน EC2 + RDS

ขั้นตอนที่ 1: สร้างฐานข้อมูล MySQL

-เลือก RDS



-เลือก engine ที่จะใช้งาน


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


-เลือก template ที่จะใช้งาน

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](#)

-ตั้งค่ารายละเอียด

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.

wordpress

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. 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](#)

.....

-

-ตั้งค่า DB

▼ Additional configuration

Database options, backup enabled, backtrack disabled, Enhanced Monitoring disabled, maintenance, CloudWatch Logs, delete protection disabled

Database options

Initial database name [Info](#)

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

DB parameter group [Info](#)

Option group [Info](#)

Backup

- ☒ Enable automated backups
Creates a point-in-time snapshot of your database

ขั้นตอนที่ 2การสร้าง EC2 instance

-เลือก EC2

EC2 Dashboard

- Events
- Tags
- Reports
- Limits
- INSTANCES
 - Instances
 - Launch Templates
 - Spot Requests
 - Reserved Instances
 - Dedicated Hosts
 - Scheduled Instances
 - Capacity Reservations
- IMAGES
 - AMIs
 - Bundle Tasks
- ELASTIC BLOCK STORE
 - Volumes
 - Snapshots
 - Lifecycle Manager
- NETWORK & SECURITY
 - Security Groups

Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

0 Running Instances	0 Elastic IPs
0 Dedicated Hosts	10 Snapshots
0 Volumes	0 Load Balancers
1 Key Pairs	5 Security Groups
0 Placement Groups	

Learn more about the latest in AWS Compute from AWS re:Invent by viewing the [EC2 Videos](#).

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 East (N. Virginia) region

Service Health

Service Status:

- US East (N. Virginia):

Availability Zone Status:

- us-east-1a: Availability zone is operating normally

Scheduled Events

US East (N. Virginia):

No events

-เลือก instance

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.

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

Search by Systems Manager parameter


Quick Start (17) |< < 1 to 17 of 17 AMIs > >|


My AMIs (0)


AWS Marketplace (1088)

Community AMIs (4279)

☐ Free tier only ⓘ

 **Amazon Linux 2 AMI (HVM), SSD Volume Type** - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cce (64-bit Arm) [Select](#)

 **macOS Big Sur 11.6** - ami-0355f1ed5537c0368 [Select](#)

 **macOS Catalina 10.15.7** - ami-0ae0b6d49088fc747 [Select](#)

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cce (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

macOS Big Sur 11.6 - ami-0355f1ed5537c0368 [Select](#)

The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

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

macOS Catalina 10.15.7 - ami-0ae0b6d49088fc747 [Select](#)

The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM

64-bit (Mac)

64-bit (x86)

64-bit (Arm)


-ตั้งค่าตามที่เราดต้องการ

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 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.

AMI Details [Edit AMI](#)

 **Amazon Linux 2 AMI (HVM), SSD Volume Type** - ami-087c17d1fe0178315 [Free tier eligible](#)

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 a...

Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

Security group name: wordpress

Description: launch-wizard-2 created 2021-09-27T14:25:30.277+07:00

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ
SSH	TCP	22	49.48.243.68/32	

Cancel

Previous

Launch

-กดโหลด key และรัน instance

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. Amazon EC2 supports ED25519 and RSA key pair types.

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](#).

Create a new key pair 

Key pair type

☒ RSA ☐ ED25519

Key pair name

wordpress

Download Key Pair



You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel

Launch Instances

ขั้นตอนที่ 3 การกำหนดค่าฐานข้อมูล RDS

-กลับไปที่ rds database

The screenshot shows the AWS RDS console. The top section, 'Databases', contains a table with the following data:

DB identifier	Role	Engine	Region & AZ	Size	Status	CP
wordpress	Instance	MySQL	us-east-1f	db.t2.micro	Available	

A red arrow points to the 'wordpress' database identifier. Below this, the 'Connectivity & security' section is expanded, showing three columns of configuration details:

- Endpoint & port:**
 - Endpoint: `wordpress.cidqtbguixey.us-east-1.rds.amazonaws.com`
 - Port: 3306
- Networking:**
 - Availability Zone: us-east-1b
 - VPC: `vpc-0df3bcf11acb51929`
 - Subnet group: default-vpc-0df3bcf11acb51929
 - Subnets:
 - `subnet-0b23bd736cc4ea9b7`
 - `subnet-0ff026ddab293407a`
 - `subnet-090a720c7582f8361`
 - `subnet-0ef6548f41063fdaf`
 - `subnet-098e010f72b88f899`
 - `subnet-002e1608d2259c9ea`
- Security:**
 - VPC security groups: `default (sg-0130fee84757411b8)` (active)
 - Publicly accessible: No
 - Certificate authority: rds-ca-2019
 - Certificate authority date: August 23, 2024, 12:08 (UTC±12:08)

A blue arrow points from the 'us-east-1b' availability zone in the Networking section to the 'default' VPC security group in the Security section.

aws Services Search for services, features, marketplace products, and docs [Alt+S] vocstartsoft/user1615800=61160086@go.buu.ac.th @ 5057-1834-0227 N. Virginia Support

New EC2 Experience Learn more

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

▼ Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations

▼ Images
AMIs

▼ Elastic Block Store

Security Groups (1/1) Info

Filter security groups

search: sg-0130fee84757411b8 Clear filters

<input checked="" type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input checked="" type="checkbox"/>	-	sg-0130fee84757411b8	default	vpc-0df3bcf11acb51929	default VPC security gr...	505718340227

sg-0130fee84757411b8 - default

Details Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer

Inbound rules (1/1)

Manage tags Edit inbound rules

Inbound rules (1/1)

Filter security group rules

Manage tags Edit inbound rules

<input checked="" type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range
<input checked="" type="checkbox"/>	-	sg-0b387032282d28...	-	All traffic	All	All

-ตั้งค่า mysql

Edit inbound rules Info

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules Info

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
sg-0b387032282d28353	MySQL/Aurora	TCP	3306	Custom	

Add rule

sg-0130fee84757411b8

Cancel Preview changes Save rules

-เข้าเครื่อง ของเราผ่าน putty

-ติดตั้ง mysql โดยคำสั่ง `sudo yum install -y mysql`

-`export MYSQL_HOST=<your-endpoint>` // ตั้งค่า host ดูจาก rds database ของเรา

The screenshot shows the Amazon RDS console for a database instance named 'wordpress'. The left sidebar contains navigation links like Dashboard, Databases, Query Editor, etc. The main panel shows the 'Summary' tab with details: DB identifier 'wordpress', CPU usage at 3.44%, Status 'Available', Class 'db.t2.micro', Role 'Instance', Current activity '0 Connections', Engine 'MySQL Community', and Region & AZ 'us-east-1b'. Below this is the 'Connectivity & security' section with tabs for Connectivity & security, Monitoring, Logs & events, Configuration, Maintenance & backups, and Tags. The 'Connectivity & security' tab is active, showing 'Endpoint & port' (wordpress.cidqtbguixey.us-east-1.rds.amazonaws.com), 'Networking' (Availability Zone: us-east-1b, VPC: vpc-0df3bcf11acb51929), and 'Security' (VPC security groups: default (sg-0130fee84757411b8) (active), Publicly accessible).

- เข้าโดยใช้ รหัสผ่าน ที่เราได้ตั้งตอนสร้าง rds mysql `--user=<user> --password=<password>`
wordpress

-ลองสร้างข้อมูล ดังรูปด้านล่าง

```
mariadb.x86_64 1:5.5.68-1.amzn2

Complete!
[root@ip-172-31-22-159 ~]# export MYSQL_HOST=wordpress.cidqtbguixey.us-east-1.rds.amazonaws.com
[root@ip-172-31-22-159 ~]# mysql --user=admin --password=d961d955 wordpress
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 23
Server version: 8.0.23 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 [wordpress]> CREATE USER 'wordpress' IDENTIFIED BY 'wordpress-pass';
Query OK, 0 rows affected (0.01 sec)

MySQL [wordpress]> GRANT ALL PRIVILEGES ON wordpress.* TO wordpress;
Query OK, 0 rows affected (0.01 sec)

MySQL [wordpress]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

MySQL [wordpress]> Exit
```

ขั้นตอนที่ 4การกำหนดค่า WordPress บน EC2

ขั้นตอนที่ 1: การติดตั้งเว็บเซิร์ฟเวอร์ Apache

```
-sudo yum install -y httpd
```

```
-sudo service httpd start
```

ดาวน์โหลดและกำหนดค่า WordPress

```
-wget https://wordpress.org/latest.tar.gz
```

```
-tar -xzf latest.tar.gz
```

Ls เพื่อดูโฟลเดอร์แล้วเข้าไป

```
latest.tar.gz wordpress
```

```
cd wordpress
```

จากนั้น เปิดไฟล์ wp-config.php โดยใช้ตัวแก้ไข โดยการเรียกใช้คำสั่งต่อไปนี้

```
// ** MySQL settings - You can get this info from your web host ** //
```

```
/** The name of the database for WordPress */
```

```
define( 'DB_NAME', 'database_name_here' );
```

```
/** MySQL database username */
```

```
define( 'DB_USER', 'username_here' );
```

```
/** MySQL database password */
```

```
define( 'DB_PASSWORD', 'password_here' );
```

```
/** MySQL hostname */
```

```
define( 'DB_HOST', 'localhost' );
```

การติดตั้ง WordPress เพื่อใช้จริง

```
sudo amazon-linux-extras install -y lamp-mariadb10.2-php7.2 php7.2
```

```
cd /home/ec2-user
```

```
sudo cp -r wordpress/* /var/www/html/
```

```
sudo service httpd restart
```

ที่เหลือก็ไปตั้งค่า wordpress ตามที่เราต้องการ

