Cloud based enterprise systems lab (15B28CI581)

Assignment week 5

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B11

Create an web based application on your EC2 instance and perform the following tasks:

a. Install the LAMP server on EC2.

b. Create a new database in MySQL for WordPress to use.

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

Connectivity & security | Monitoring | Logs & events | Configuration | Maintenance & backups | Tags

Connectivity & security

Endpoint & port

Endpoint
wordpressdb.czds41w0ed3b.us-east-2.rds.amazonaws.com

Port
3306

Networking

Availability Zone
us-east-2b

VPC
vpc-0858613c7b1d9a800

Subnet group
default-vpc-0858613c7b1d9a800

Subnets

Security

VPC security groups
default (sg-0196357f8d2e674b0)
⊘ Active
launch-wizard-2 (sg-0a3f7380a68b486e4)
⊘ Active

Publicly accessible
No

Now in EC2

c. Download and configure the latest version of WordPress.

```
        __|  __|_  )
        _|  (     /   Amazon Linux 2 AMI
       ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-38-27 ~]$
[ec2-user@ip-172-31-38-27 ~]$ sudo su .
su: user . does not exist
[ec2-user@ip-172-31-38-27 ~]$ sudo su
[root@ip-172-31-38-27 ec2-user]# yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package httpd.x86_64 0:2.4.52-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.52-1.amzn2 for package: httpd-2.4.
52-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem = 2.4.52-1.amzn2 for package: http
d-2.4.52-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.52-1.amzn
2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.52-1.amzn2.x86_64
--> Processing Dependency: httpd-filesystem for package: httpd-2.4.52-1.amzn2.
x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.52-1.amzn2.x
86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.5
2-1.amzn2.x86_64
--> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.52-1.
amzn2.x86_64
```

Install PHP mysql

```
[root@ip-172-31-38-27 ec2-user]# yum install php-mysql -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package php-mysql is obsoleted by php-mysqlnd, trying to install php-mysqlnd-5
.4.16-46.amzn2.0.2.x86_64 instead
Resolving Dependencies
--> Running transaction check
---> Package php-mysqlnd.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: php-pdo(x86-64) = 5.4.16-46.amzn2.0.2 for package:
php-mysqlnd-5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
---> Package php-pdo.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: php-common(x86-64) = 5.4.16-46.amzn2.0.2 for packag
e: php-pdo-5.4.16-46.amzn2.0.2.x86_64
--> Running transaction check
---> Package php-common.x86_64 0:5.4.16-46.amzn2.0.2 will be installed
--> Processing Dependency: libzip.so.2()(64bit) for package: php-common-5.4.16
-46.amzn2.0.2.x86_64
--> Running transaction check
---> Package libzip010-compat.x86_64 0:0.10.1-9.amzn2.0.5 will be installed
```

Install PHP latest version

```
that is not a valid option. Try 'help'.
[root@ip-172-31-38-27 ec2-user]# amazon-linux-extras install php7.3
Topic php7.3 has end-of-support date of 2021-12-06
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-kernel-5.10
              : amzn2extra-php7.3
17 metadata files removed
6 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core                                          | 3.7 kB     00:00
amzn2extra-docker                                   | 3.0 kB     00:00
amzn2extra-kernel-5.10                              | 3.0 kB     00:00
amzn2extra-php7.3                                   | 3.0 kB     00:00
(1/9): amzn2-core/2/x86_64/group_gz                 | 2.5 kB     00:00
(2/9): amzn2-core/2/x86_64/updateinfo               | 452 kB     00:00
(3/9): amzn2extra-docker/2/x86_64/primary_db        |  86 kB     00:00
(4/9): amzn2extra-docker/2/x86_64/updateinfo        | 5.9 kB     00:00
(5/9): amzn2extra-php7.3/2/x86_64/updateinfo        |  76 B      00:00
(6/9): amzn2extra-kernel-5.10/2/x86_64/updateinfo   |  12 kB     00:00
(7/9): amzn2extra-kernel-5.10/2/x86_64/primary_db   | 7.4 MB     00:00
(8/9): amzn2extra-php7.3/2/x86_64/primary_db        | 519 kB     00:00
(9/9): amzn2-core/2/x86_64/primary_db               |  60 MB     00:01
```

Turn on httpd server and download tar file of wordpress site

```
* Extra topic has reached end of support.
[root@ip-172-31-38-27 ec2-user]# systemctl enable httpd --now
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service
 to /usr/lib/systemd/system/httpd.service.
[root@ip-172-31-38-27 ec2-user]# cd /var/www/html
[root@ip-172-31-38-27 html]# ls
[root@ip-172-31-38-27 html]# wget http://wordpress.org/latest.tar.gz
--2022-03-19 09:54:13--  http://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://wordpress.org/latest.tar.gz [following]
--2022-03-19 09:54:13--  https://wordpress.org/latest.tar.gz
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 18722604 (18M) [application/octet-stream]
Saving to: 'latest.tar.gz'

100%[===================================>] 18,722,604  36.9MB/s   in 0.5s

2022-03-19 09:54:14 (36.9 MB/s) - 'latest.tar.gz' saved [18722604/18722604]

[root@ip-172-31-38-27 html]#
```

Unzip tar file
tar -zxvf latest.tar.gz

Take backup of config file

```
wordpress/wp-comments-post.php
[root@ip-172-31-38-27 html]# ls
latest.tar.gz   wordpress
[root@ip-172-31-38-27 html]# cd wordpress/
[root@ip-172-31-38-27 wordpress]# cp wp-confog-simple.php /home/ec2-user/
```

Last correct command

```
[root@ip-172-31-38-27 wordpress]# cp wp-config-sample.php /home/ec2-user/
[root@ip-172-31-38-27 wordpress]#
```

Admin setup config

http://ec2-3-134-115-237.us-east-2.compute.amazonaws.com/wordpress/wp-admin/setup-config.php

d. Copy the WordPress files to your Apache document root directory.

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

Database Name

wordpressdb

The name of the database you want to use with WordPress.

Username

admin

Your database username.

Password

Amitgpatil215@

Your database password.

Database Host

wordpressdb.czds41w0ed3b.us-east-2.rds.amazonaws.com

You should be able to get this info from your web host, if `localhost` doesn't work.

Table Prefix

wp_

If you want to run multiple WordPress installations in a single database, change this.

e. Log in to your new WordPress site.

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	○ Create new
Choose existing VPC security groups	Create new VPC security group

Existing VPC security groups

Choose VPC security groups ▼

default ✕   launch-wizard-2 ✕

Availability Zone Info

No preference ▼

▶ **Additional configuration**

Database name:

wordpressdb