A}. <u>Create a CloudFormation stack</u>

1. Open AWS console and search for cloudformation and click on it.
2.Click on create stack .
3.Click on use a sample template and choose wordpress blog template.
4.Give stack name as wordpress-server1 and type in the password of your choice.
5.Select t2.micro free tier for instancec type.
6.Select the created key pair and click next.
7.Keep default settings for 'configure stack options' and click next.
8.Review and click submit.
9.Go to output tab after the creation of stack and copy the URL and paste in new tab of your browser.
10.Fill up the details and click install wordpress.
11.Login to your wordpress .

B}.<u>Create an AMI of the WordPress instance</u>

1.Go to search option and search for EC2.
2.Go to the instances and select the instance which was created using cloudformation.
3.Click on actions and select 'Images and template'.
4.Select create image and give details then click create image.

C}.**<u>Configure Auto Scaling to launch a new WordPress instance</u>**

1.Goto launch template and click on create launch template.
2.Give a name and select 'my AMI's' in Application and OS Images (Amazon Machine Image) section.
3.Select instance type as t2.micro.
4.Select the key pair which was created initially.
5.Choose a public subnet in network settings and create a security group allowing ssh and http ports.
6.Select the volume type as gp3 and select encrypted.

7.Click on create launch template after reviewing every parameters.

8.The launch template is successfully created.

9.Goto autoscaling group and click on create autoscaling group.

10.Choose the launch template created and click next.

11.Choose default VPC and subnets and click next.

12.Choose 60 for heath checks and click on next.

13.Choose the capacities as 1 for all and click next.

14.If you want to add notification select it and click next.

15.Review everything and click on ‘create a autoscaling group’.

16.Autoscaling group is successfully created.

D}.**Configure the new WordPress instance to shut down automatically**

1.Goto autoscaling groups and select the instance created with autoscaling group.

2.Click on automatic scaling .

3. Goto scheduled actions and click on ‘create scheduled actions’.

4.Give required details and click create.

5.Now the instance will start at 9:00 AM everyday and automatically shut down at 6:00 PM everyday.

E}.**Monitor the instance using Availability Monitoring feature of the R53**

1.Goto route 53 and select hosted zone.

2.Create a hosted zone using the domain name purchased ie.”keerthanappachu.in”.

3.Edit the nameservers for the domain name .

4.Now goto health checks and create health checks using details such as domain name and create health check.

5.The tab shows the website is healthy.