WordPress Setup on private Instance and Host it by a public facing ALB.

Step 1. Go to VPC and set up a VPC with private and public subnet in which private subnet is connected by NAT so that wordpress could get internet access.

Step 2. Go to EC2 and create a Ubuntu instance in a private subnet and attach a role with ssm permission with it, otherwise create a second EC2 in the public subnet so that we can connect to the private instance.

Step 3. Go inside private instance and do the following:

1) Update the system
    $ sudo apt-get update

2) Install apache web server
    $ sudo apt-get install apache2 -y

3) Install mariadb client and server
    $ sudo apt-get install mariadb-server mariadb-client -y

4) Setup mariadb
    $ sudo mysql_secure_installation
    -Press Y for setup root password
    -Setup root password
    -Now press Y for all the next step as they belong to delete old database connectivity and users. (You can press N as per your scenario).

5) Setup a database and user for the wordpress.
    $ sudo mysql -u root -p
    - Now enter your password which you have created for root
    - Now it will get inside mariadb
        - Now create a database
            Create database wordpress;

        - Create a user
            Create user "admin"@"%" identified by "password";

        - Grant his access to the database
            grant all privileges on wordpress.* to "admin"@"%";

6) Install php and its extension
   $ sudo apt install php libapache2-mod-php -y
   $ sudo apt install php-mysql php-gd php-common -y

7) Install wget and unzip
   $ sudo apt-get install wget unzip

8) Download wordpress as zip
   $ wget http://

9) Unzip the zip file
   $ unzip latest.zip

10) Delete the content in /var/www/html directory
   $ sudo rm -rf /var/www/html/*

11) Copy the contents of Wordpress directory in the /var/www/html directory
   $ sudo cp -R Wordpress/* /var/www/html/*

12) Restart the services
   $ sudo systemctl daemon-reload
   $ sudo systemctl restart mariadb
   $ sudo systemctl restart apache2

Step 4. Setup a target group that has the above created private instance.

Step 5. Set up an ALB which is in a public subnet and connect it with the target group we created above.

Step 6. Hit the DNS of the ALB and it will show the wordpress setup menu.
   1) Choose you preferred language
   2) Fill the entries in the wordpress setup that you have configured before and submit it.
   3) Now if everything goes fine you will see the "Run the Installation" button. Click on it.
   4) Configure your wordpress user and install the wordpress.
   5) Now you will get a login panel. Login into it, customize your website and publish it.

Step 7. Open a different browser and hit the DNS name of the ALB and you can see your published website.

Conclusion:
If you can see your published website on the DNS of ALB then you have completely setup the wordpress in a private instance and can access it with the public facing ALB.