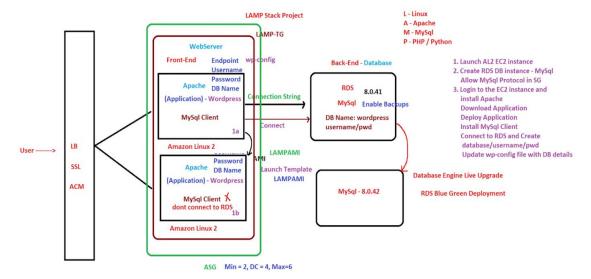
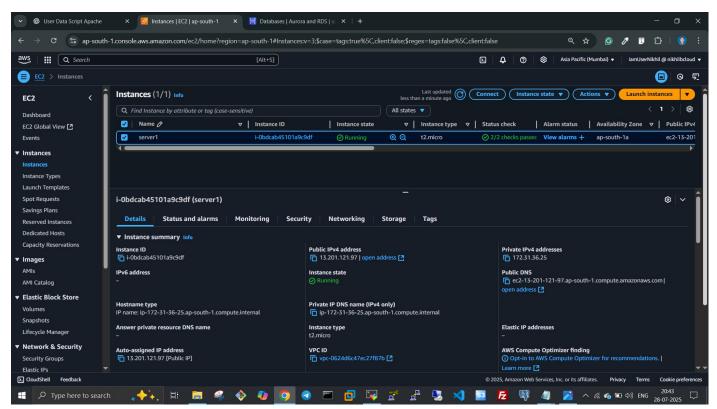
## Scalable WordPress Hosting on AWS with LAMP Stack and Blue/Green RDS Upgrade

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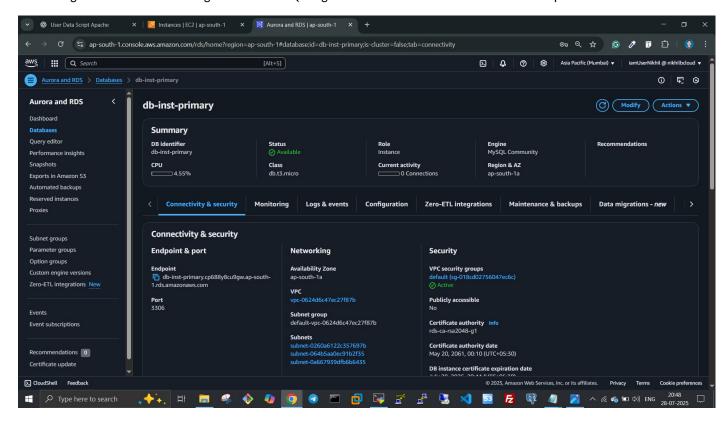
## Architecture Diagram of Project -



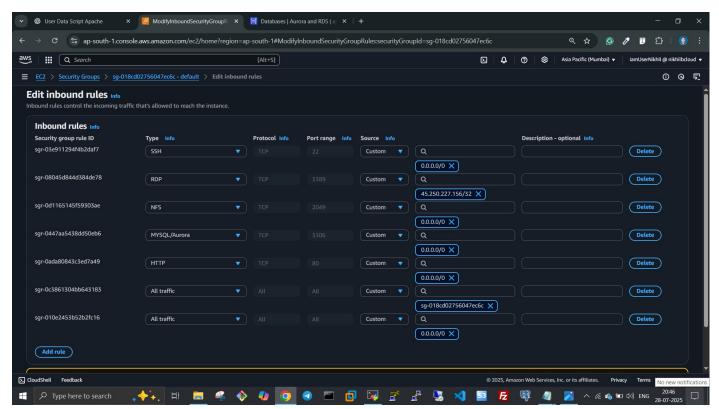
1. Launching ec2 instance with instance type Amazon Linux 3



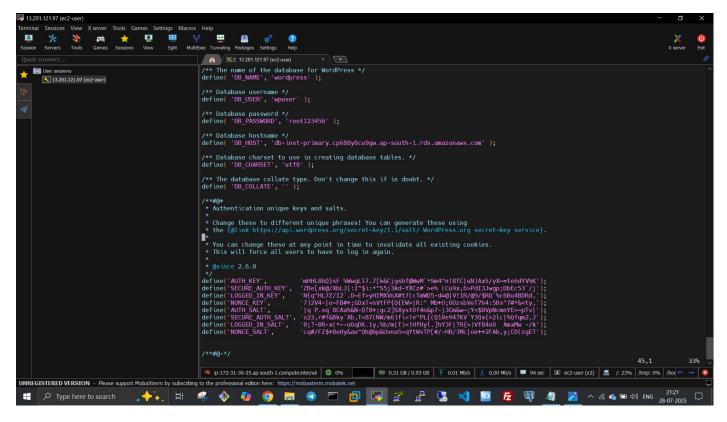
2. Creating Database instance using RDB with MYSQL engine 8.0.41 ensure enable automatic backup



3. Allow protocols in SG, MySQL or anywhere

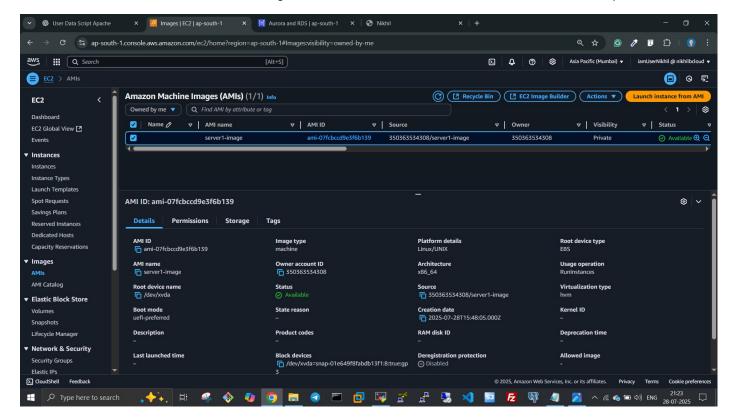


- 4. Installing MYSQL client as we need to connect to DB instance and creating database, username and pass.
- 5. Installing Apache webserver and installing WordPress app, extracting it and configuring config file that is setting connection string so that application should connect to database.

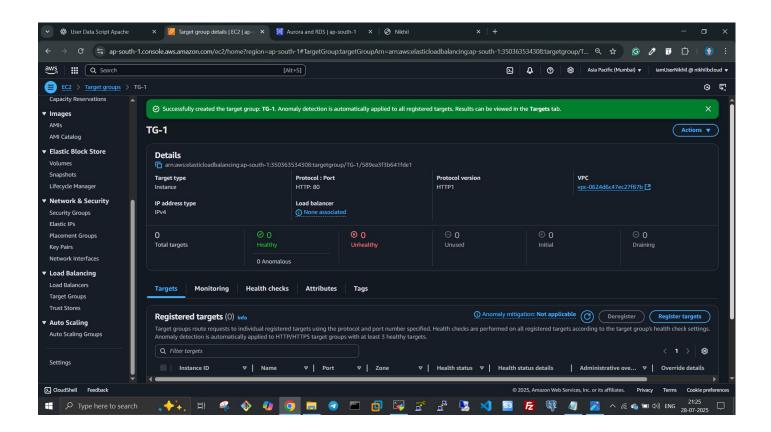


- 6. Copy all WordPress files to Apache directory /var/www/html then restart apache server
- 7. Now what if this ec2 goes down so we have to set Auto Scaling

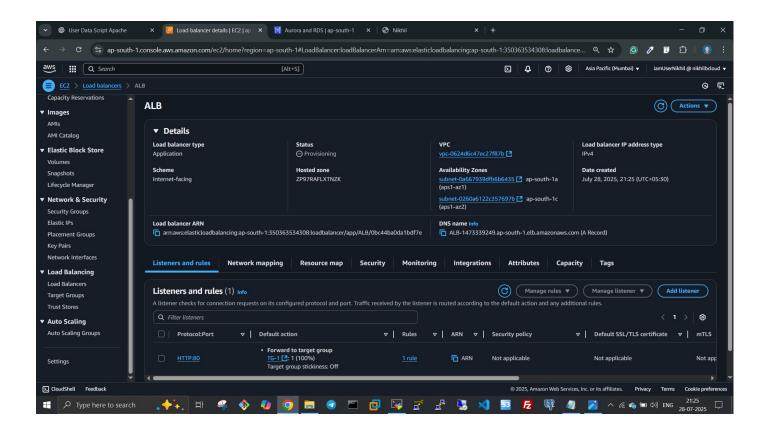
So first create AMI form this ec2 where all configuration are done so that we can use same AMI in launch template



8. Creating Empty Target Group giving health check path / only (ie: root path)



9. Creating Application Load Balancer - distributing traffic to diff ec2 servers



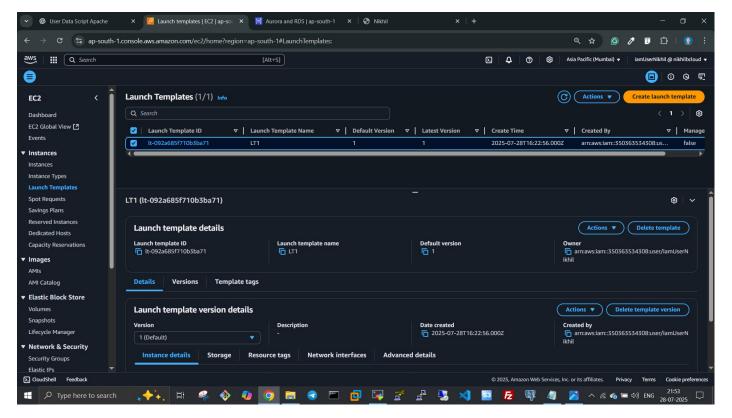
10. For Creating ASG we need to launch first launch template

while launching launch tamplate use same AMI and in user data mention -

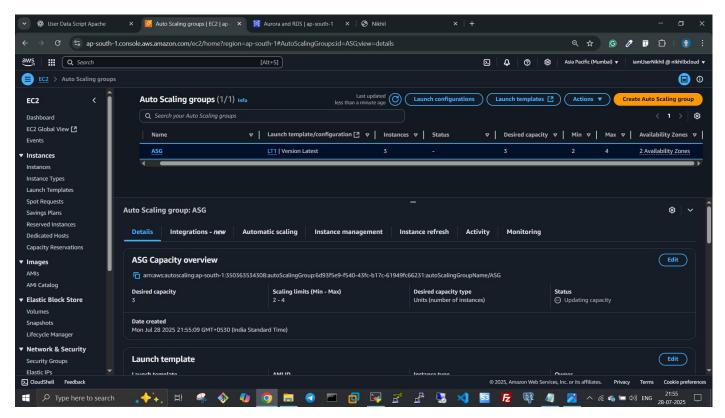
systemctl restart httpd

systemctl restart php-fpm

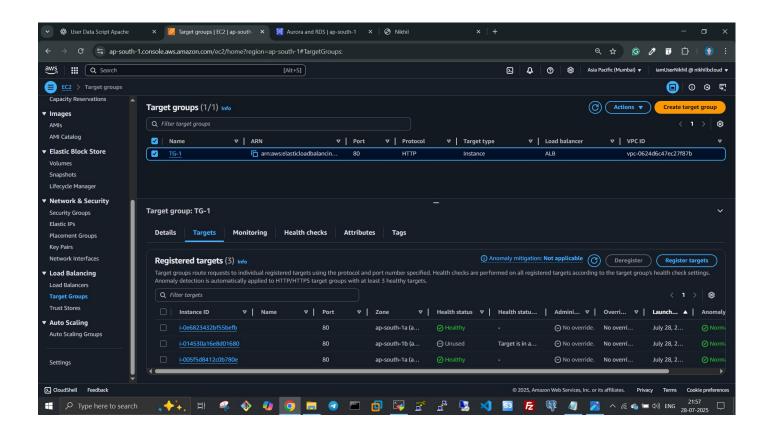
because when ASG launches new ec2 we need to restart apache and php



## Create ASG



11. After this you will see ec2 instances in TG where you can check health check and access wordpress using ALB



12. Now we need to upgrade MYSQL version from 8.0.41 to 8.0.42 without any downtime so we are using BLUE-GREEN-DEPLOYMENT where endpoint will remain same

