## Deploy application in monolithic and microservices architecture.

## 1). Deploying WordPress and MySQL in a Monolithic Architecture on AWS:-

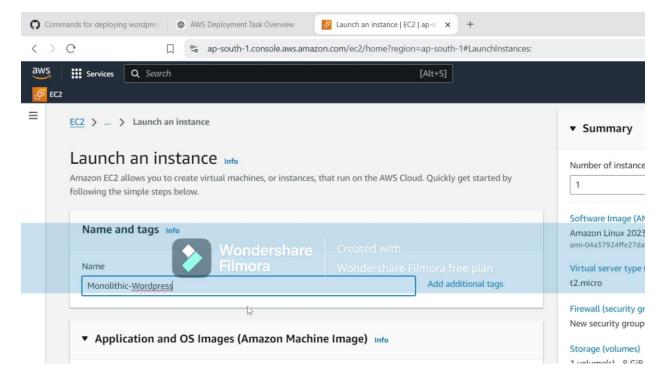
Go to AWS cloud Services Create EC2 instance Requirements for Ec2 instance are:-

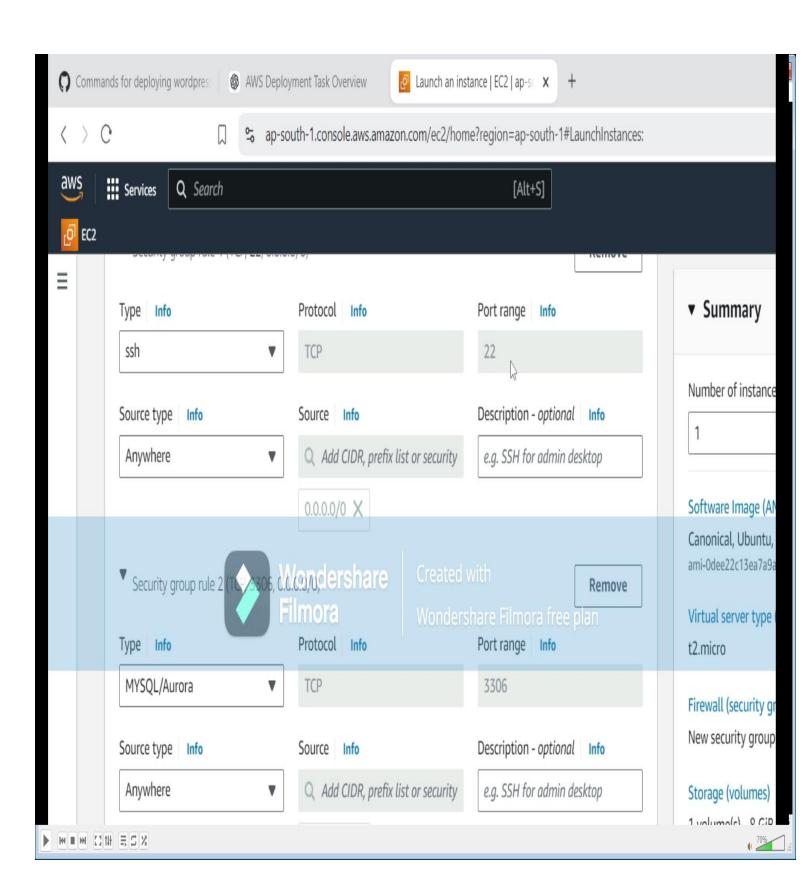
- \*) Give a Name ""
- \*) Use Ubuntu AMI (Ubuntu server 24.04 Lts SSD volume Type (free tire eligible)
- \*) select Instance Type t2. micro (Free tire eligible)
- \*) key Pair use your own or create one key-pair here i have used (jenkins-server)
- \*) network settings:- Edit here vpc i have used default, and subnet No preference and Enable Auto-assign public IP

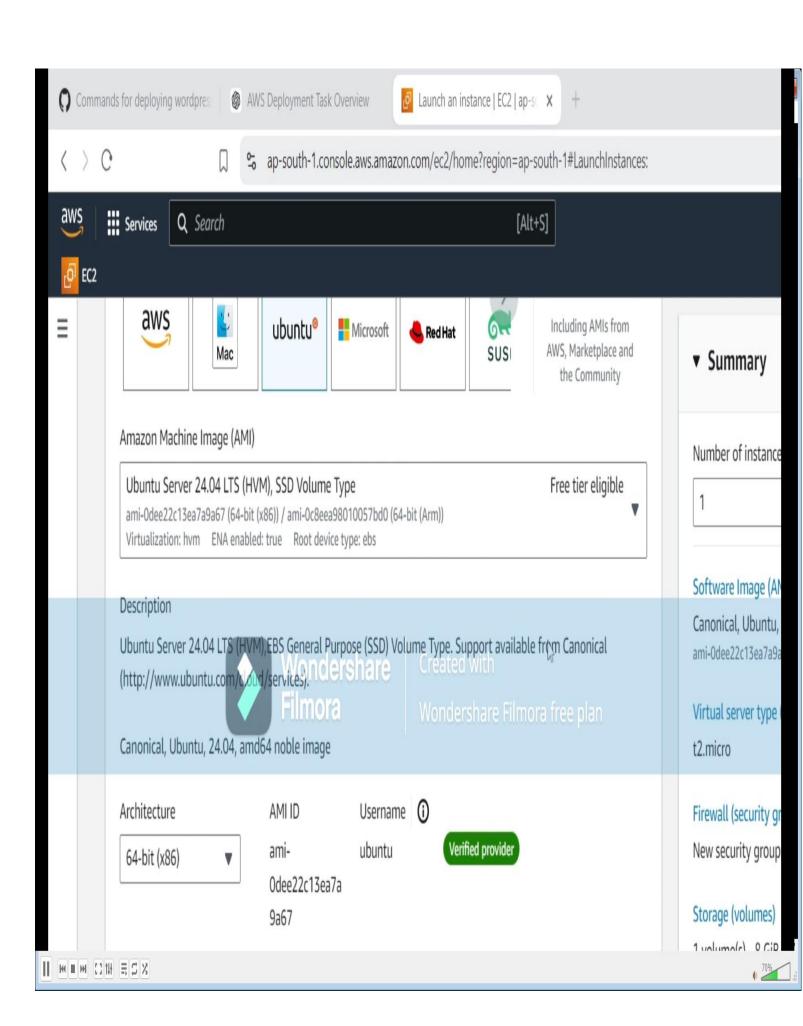
Network configuration Add Security group rule:-

Type SSH, source type Anywhere ,Type Http, Anywhere, Mysql/Aurora

And Connect Through SSH I have Used Putty to connect







Expanded Security Maintenance for Applications is not enabled.

updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See https://ubuntu.com/esm or run: sudo pro status

Last login: Tue Nov 5 06:39:57 2024 from 103.255.145.106 ubuntu@ip-172-31-8-201:~\$ history

- 1 sudo apt update
- 2 sudo apt upgrade -y
- 3 sudo apt install apache2 -y
- 4 apache2 --version
- 5 apache2 -- version
- 6 sudo systemctl enable apache2
- 7 sudo systemctl start apache2
- 8 sudo apt install mysql-server
- 9 sudo mysql -u root
- 10 sudo apt install php libapache2-mod-php php-mysql
- 11 sudo systemctl restart apache2
- 12 ls
- 13 ls -a
- 14 cd /var/www/html
- 16 sudo rm index.html
- 18 wget https://wordpress.org/latest.zip
- 19 sudo apt install unzip
- 20 unzip latest.zip
- 21 ls
- 22 ls-a
- 23 ls -a
- 24 ls
- 25 pwd
- 26 unzip latest.zip
- 27 wget https://wordpress.org/latest.zip
- 29 cd ~
- 30 wget https://wordpress.org/latest.zip
- 31 sudo mv latest.zip /var/www/html/
- 32 cd /var/www/html
- 33 sudo unzip latest.zip
- 34 ls
- 35 ls /var/www/html
- 36 cd wordpress









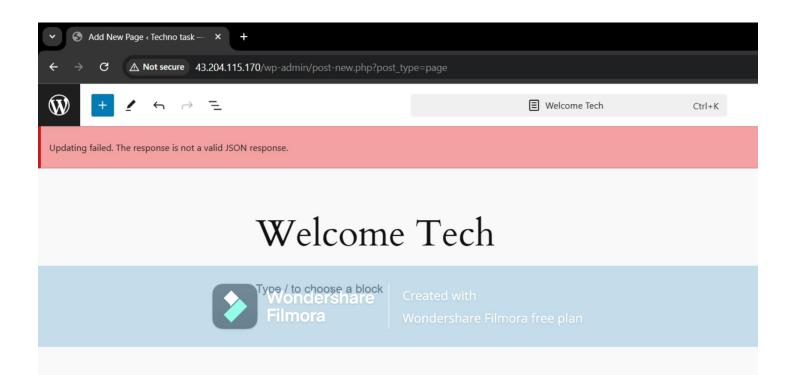


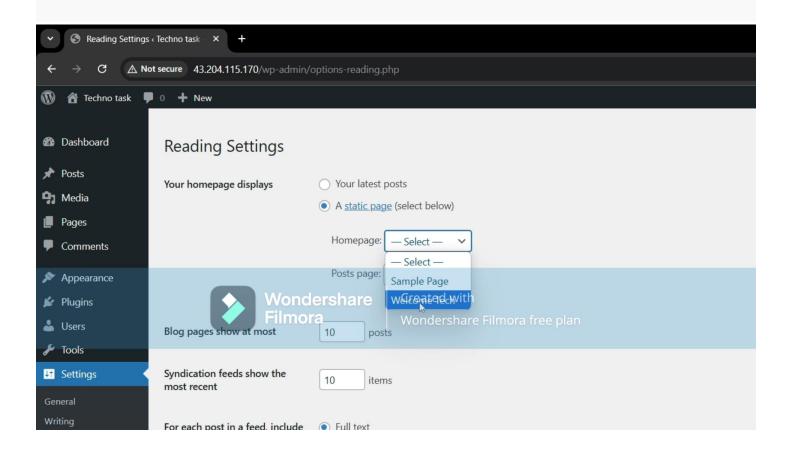


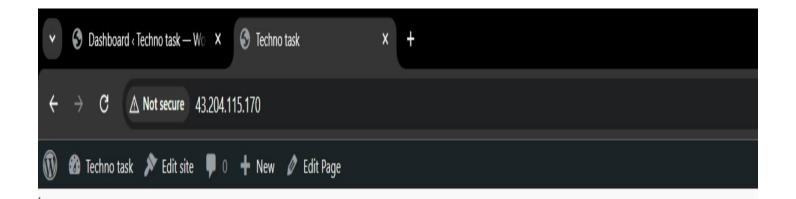












Techno task



This is My GithHub URL:- https://github.com/Abhisheksgp

Here I have Installed a Mysql Server, Apache2, php and configure all in the single Ec2 instance I have Explained in Next Microservice Architecture There we will connect by common same Vpc Here there will be not there Remaining all same

## 2) Microservices Architecture on AWS: Deploying WordPress and MySOI

<u> 2).WHC108EF</u>	vices Archite	ecture on	AWS.	Debioaii	<u>ig wolurie</u>	ss and mysql o	<u> 111</u>
Separate EC	22 Instances:	<u>.</u>					
Requirements:-	Same as Above I	Ec2 Instances	Here Creat	te Two Ec2	Instances:-		
*) For Mysql (H	lere sss,Mysql/A	urora same as	above)				
*) Wordpress(Here connect this Through Putty SSH one by			h, oth	http,	https,	Mysql/Auror	a)
*	•	• •		ty Configur		Password, And Do FLUS and Assign The Permission He	ns
Configure	Mysql	to	`	allow	extern	al connection	ns
like	sudo		nano		/etc/mys	ql/mysql.conf.d/mysqld.c	nf
services	•	•				low connection from other	
connect	To	the		latabase:	like	wp-config.pl	
here	you	can		use	Nano	Editor/Vim/v	-
	•		What you h			Datbase_Name, DB_use	
	DB_Host, And C						,
*)After	Insatlling				apache2,	Γ	Oo
Sudo	systemctl			enable		apache	e2
sudo	systemctl				restart	apache	e2
For secur	re The	mysql	and	root	password	confirming Using mysql_secure_installation	se on

Finally go To ec2 instance of Wordpress And copy Ip address and paste to Any browser It will open WordPress if any errors troubleshoot by database connection Check the DB\_name, user, password, and host as private address for Microservices and for Monolithic use localhost later do login and create own homepage and save and open in browser

























## Welcome To Intern



IAM ABHISHEK.K