Deploy application in monolithic and microservices architecture.

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

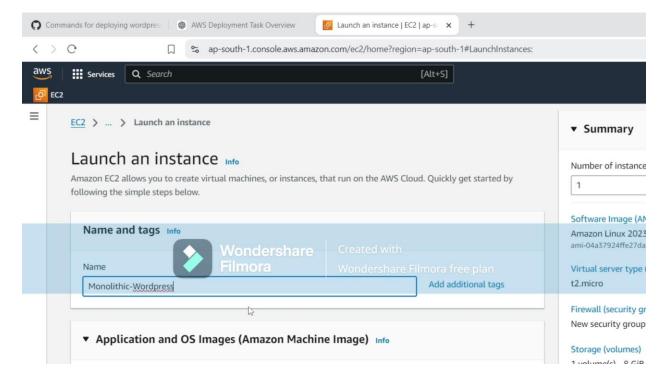
Go to AWS cloud Services Create EC2 instance Requirements for Ec2 instance are:-

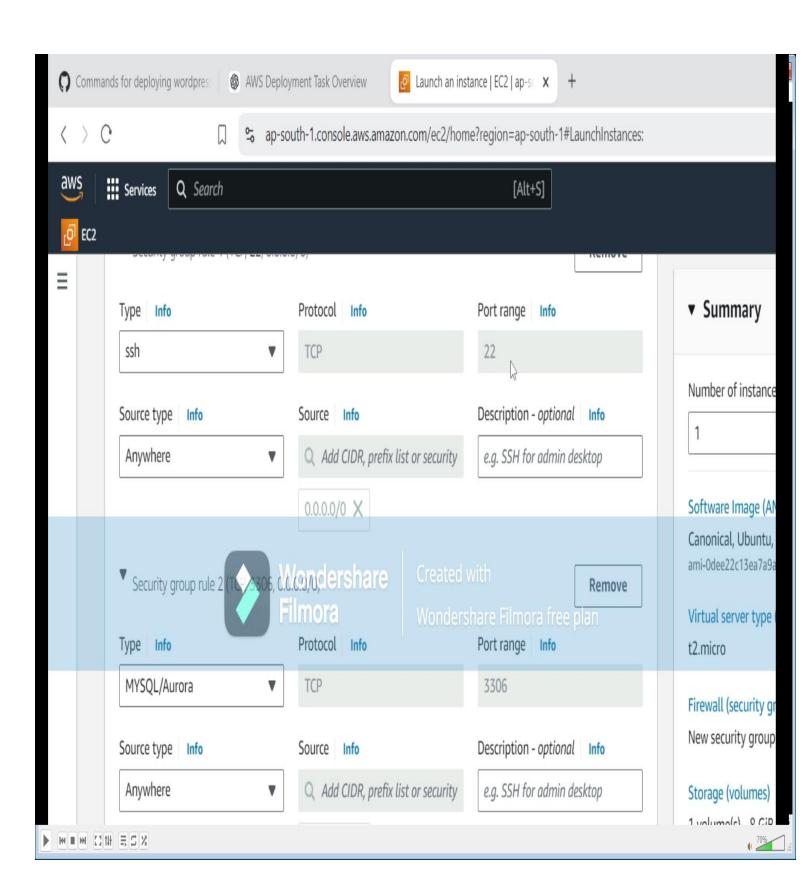
- *) Give a Name ""
- *) Use Ubuntu AMI (Ubuntu server 24.04 Lts SSD volume Type (free tire eligible)
- *) select Instance Type t2. micro (Free tire eligible)
- *) key Pair use your own or create one key-pair here i have used (jenkins-server)
- *) network settings:- Edit here vpc i have used default,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

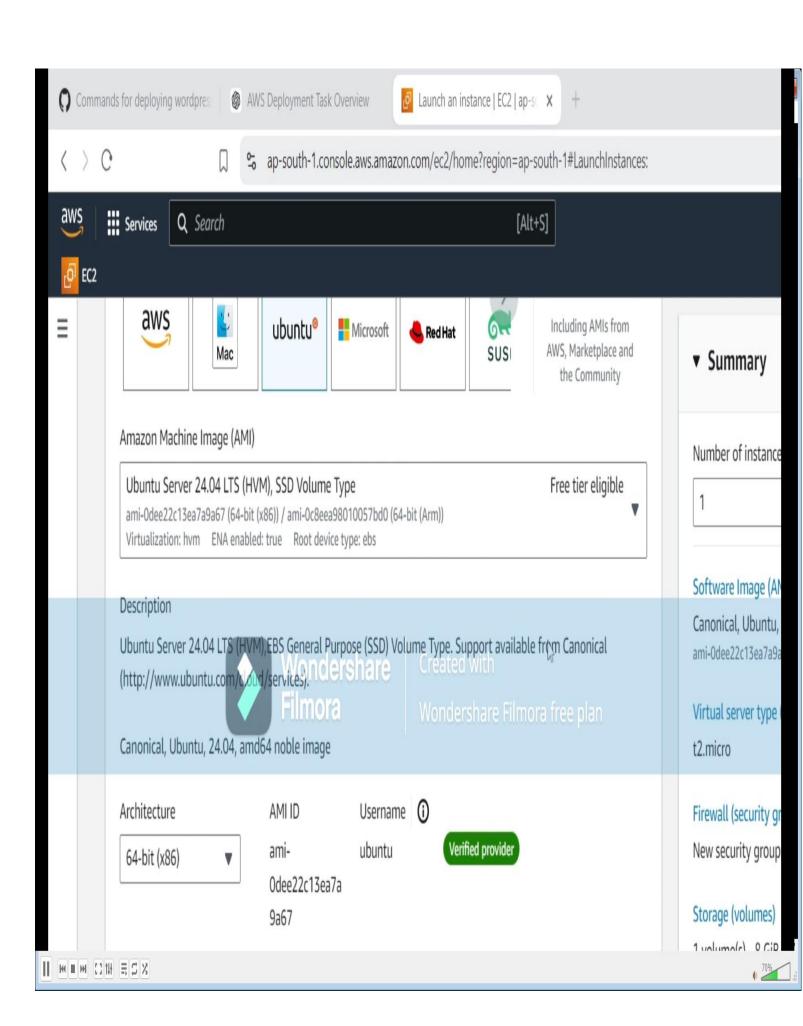
Network configuration Add Security group rule:-

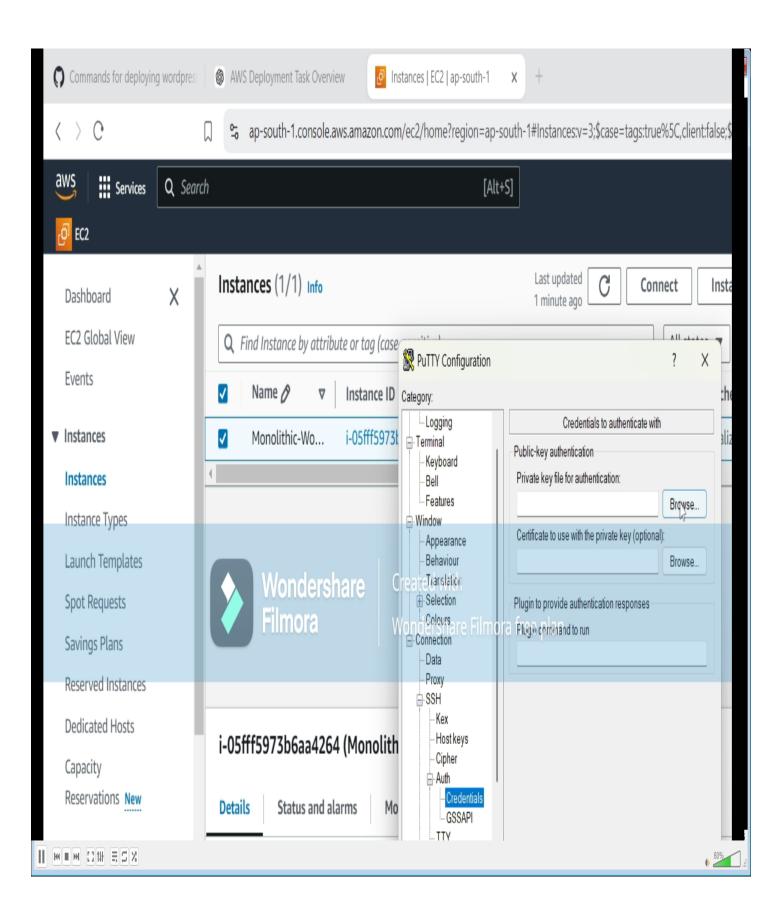
Type SSH, source type Anywhere ,Type Http, Anywhere, Mysql/Aurora

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
- 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
- 15 ls
- 16 sudo rm index.html
- 17 ls
- 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
- 28 ls
- 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















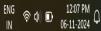
























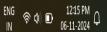


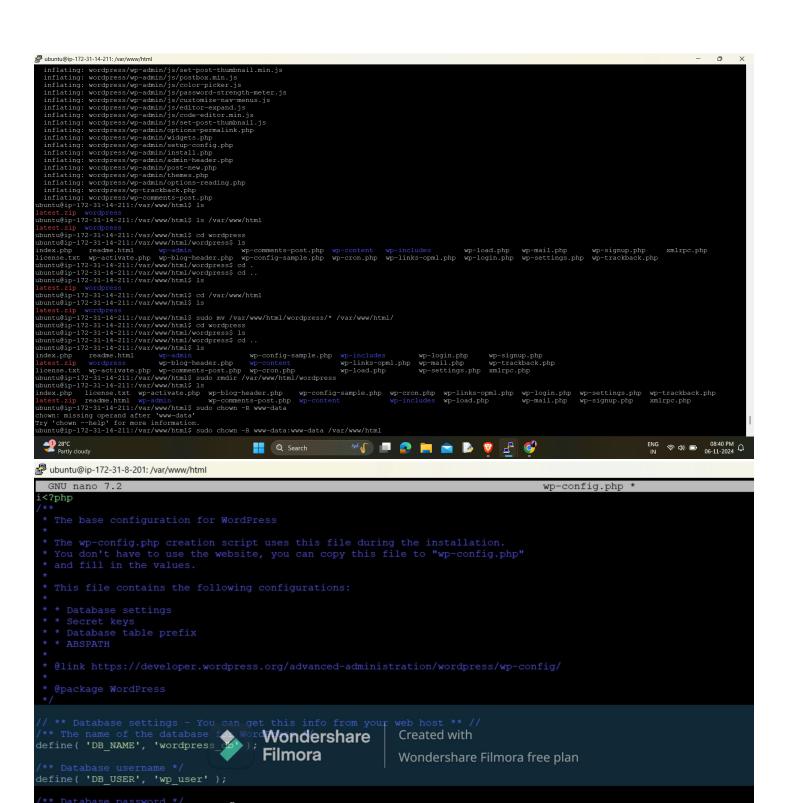






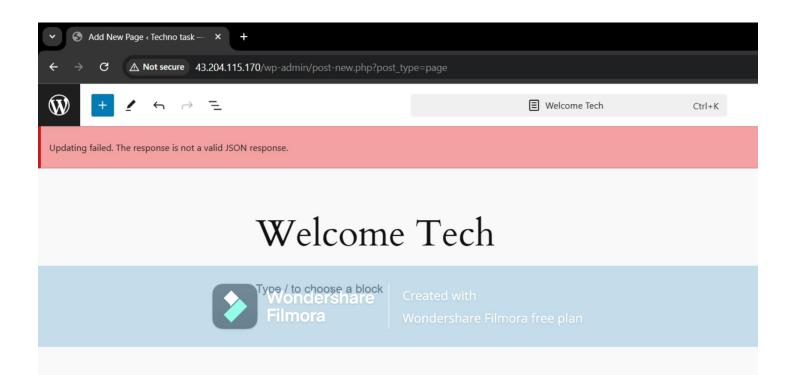


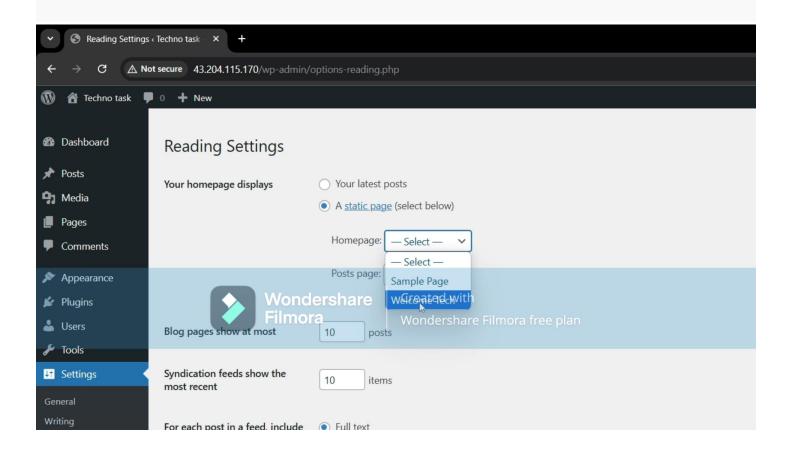


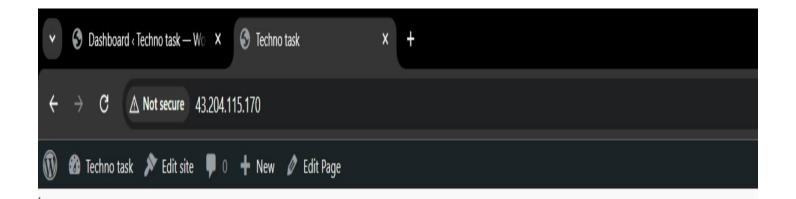


define('DB_PASSWORD', 'Abhi<mark>'</mark>);

define('DB_HOST', 'localhost');







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 MySQL on Separate EC2 Instances:-

Requirem	ents:- Same	e as Above l	Ec2 Instances	Here Crea	te Two Ec2	Instances:-			
*) For My	sql (Here s	ss,Mysql/A	urora same as	above)					
*) connect th		press(Here Putty SSH	one by one B	sh, oth	http,	https,	Mysq	l/Aurora)	
		•	• •		ity Configur		Password, And Dond Assign The Per		
Configure	;	Mysql	to	`	allow	extern	ial coi	nnections	
like	sudo nano					/etc/mys	ql/mysql.conf.d/m	ysqld.cnf	
here Char services	nge the Ip	Address of	example Bin	d-address	=127.0.0.34	to 0.0.0.0 to al	low connection fr	om other	
*)For Wo	rdpress Ins	tance Insatl	l and configu	re Apache	2, Php for w	ordpress and h	ere configure Woo	lpress To	
connect	•	To	the	-	database:	like	•	onfig.php	
here	у	ou	can		use	Nano	Editor	/Vim/vi	
i have use	d nano edit	or and char	ige the Same	What you	have created	in Mysql Serve	r Datbase_Name, l	DB_user,	
DB_Passv	word, DB_I	Host, And C	Ctrl+O to save	and Confi	rm the Name	e for your File a	nd exit (Ctrl+x)		
*)After	er Insatlling						Do		
Sudo	systemctl				apache2, enable			apache2	
sudo	systemctl					restart	apache2		
For	secure	The	mysql	and	root	password	confirming	Use	
sudo							mysql_secure_in	stallation	

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