

Week 1: Cloud(AWS)

# Task : Deploy Application in Microservices Architecture.

Services Used :



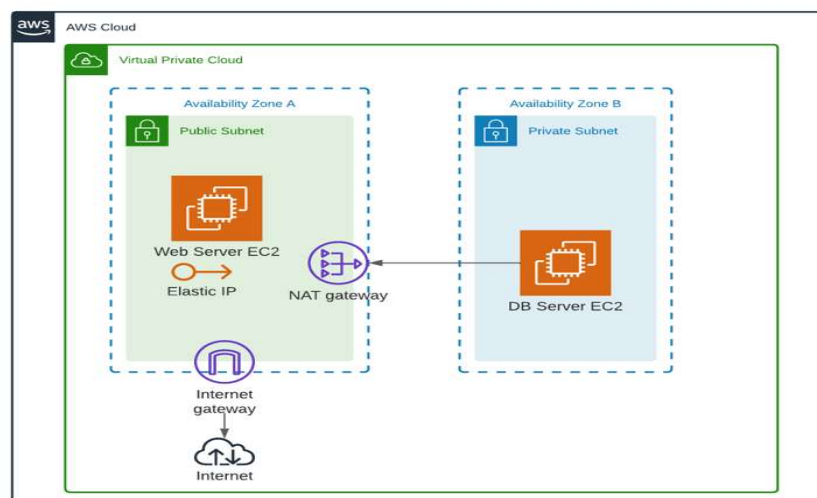
EC2 instance: 2



Amazon VPC



Deployed **Wordpress** & **MySQL** on microservices architecture.



Architecture Diagram

ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#igws

Services Search [Alt+S]

Mumbai Shridhan-IAM-Admin @ 4259-6877-8432

VPC dashboard

EC2 Global View

Filter by VPC

Virtual private cloud

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

Your VPCs (1/2) Info

Last updated less than a minute ago

Actions Create VPC

Search

	Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP opt
<input type="checkbox"/>	default	ypc-04b006e74b529fceb	Available	172.31.0.0/16	-	dopt-024c
<input checked="" type="checkbox"/>	my-vpc	ypc-0d6f593f8d94d45ad	Available	10.0.0.0/16	-	dopt-024c

Details Resource map CIDRs Flow logs Tags Integrations

Resource map Info

VPC Show details

Your AWS virtual network

my-vpc

Subnets 2

Subnets within this VPC

ap-south-1a

public

private

Route tables (2)

Route network traffic to resources

rtb-05bd78106169ce01d

myprivaterout

Network conn

Connections to other

myig

mynatgw

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Internet gateways (1/2) Info

Actions Create internet gateway

Search

	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	-	igw-045dea136194ac497	Attached	ypc-04b006e74b529fceb   default	425968778432
<input checked="" type="checkbox"/>	myig	igw-079d3cfce9ef3df2f	Attached	ypc-0d6f593f8d94d45ad   my-vpc	425968778432

igw-079d3cfce9ef3df2f / myig

Details Tags

Details

Internet gateway ID

igw-079d3cfce9ef3df2f

State

Attached

VPC ID

ypc-0d6f593f8d94d45ad | my-vpc

Owner

425968778432

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← → ↺ ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#NatGateways: [Alt+S] Mumbai Shridhan-IAM-Admin @ 4259-6877-8432

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NAT gateways (1/2) info

Find resources by attribute or tag

Name	NAT gateway ID	Connectivity...	State	State message	Primary public I...	Primary private
myNatg	nat-005c73c96ce59103f	Public	Deleted	-	65.0.209.221	10.0.2.220
myNatgw	nat-06f7de1caf57b44a4	Public	Available	-	13.202.129.108	10.0.1.196

nat-06f7de1caf57b44a4 / myNatgw

DetailsSecondary IPv4 addressesMonitoringTags

Details

NAT gateway ID nat-06f7de1caf57b44a4	Connectivity type Public	State Available	State message -
NAT gateway ARN arn:aws:ec2:ap-south-1:425968778432:natgateway/nat-06f7de1caf57b44a4	Primary public IPv4 address 13.202.129.108	Primary private IPv4 address 10.0.1.196	Primary network interface ID eni-09b896f871078a27c
VPC vpc-0d6f593f8d94d45ad / my-vpc	Subnet subnet-06156dd5681f27b4f / public	Created Saturday, June 29, 2024 at 14:24:48 GMT+5:30	Deleted -

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← → ↺ ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#Addresses: [Alt+S] Mumbai Shridhan-IAM-Admin @ 4259-6877-8432

VPC dashboard

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Elastic IP addresses (1/1)

Find resources by attribute or tag

Name	Allocated IPv4 addr...	Type	Allocation ID	Reverse DNS record
-	13.202.129.108	Public IP	eipalloc-06eb8e051699dd3b1	-

View IP address usage and recommendations to release unused IPs with Public IP insights

13.202.129.108

SummaryTags

Summary

Allocated IPv4 address 13.202.129.108	Type Public IP	Allocation ID eipalloc-06eb8e051699dd3b1	Reverse DNS record -
Association ID eipassoc-03b5456d1804f5d59	Scope VPC	Associated instance ID -	Private IP address 10.0.1.196
Network interface ID eni-09b896f871078a27c	Network interface owner account ID 425968778432	Public DNS -	NAT Gateway ID nat-06f7de1caf57b44a4 (myNatgw)

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ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables:

aws Services Search [Alt+S]

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### VPC dashboard

EC2 Global View

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- Route tables**
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- Network ACLs
- Security groups

### Route tables (3) Info

Last updated less than a minute ago

Find resources by attribute or tag

<input type="checkbox"/>	Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
<input type="checkbox"/>	mypublicrouts	rtb-05bd78106169ce01d	subnet-06156dd5681f27...	-	Yes	vpc-0d6f593f8d94d45ad   m
<input type="checkbox"/>	myprivaterouts	rtb-0938fa07d3b330f08	subnet-006c688bf660fa...	-	No	vpc-0d6f593f8d94d45ad   m
<input type="checkbox"/>	-	rtb-053de19773ef2452d	-	-	Yes	vpc-04b006e74b529fceb   de

Select a route table

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ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstancesinstanceState=running

aws Services Search [Alt+S]

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### Instances (1/2) Info

Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive)

Instance state = running Clear filters

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DN
<input type="checkbox"/>	wordpress-ser...	i-087d25641d6250683	Running	t2.micro	2/2 checks passe	View alarms +	ap-south-1a	-
<input checked="" type="checkbox"/>	mysql-server	i-00e930fde606aa74	Running	t2.micro	2/2 checks passe	View alarms +	ap-south-1a	-

#### i-00e930fde606aa74 (mysql-server)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-00e930fde606aa74 (mysql-server)	-	10.0.2.69
IPv6 address	Instance state	Public IPv4 DNS
-	Running	-
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-10-0-2-69.ap-south-1.compute.internal	ip-10-0-2-69.ap-south-1.compute.internal	
Answer private resource DNS name	Instance type	

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The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page displays two running EC2 instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DN
wordpress-ser...	i-087d25641d6250683	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	-
mysql-server	i-00e930fdde606aa74	Running	t2.micro	2/2 checks passed	View alarms	ap-south-1a	-

The details for the 'i-087d25641d6250683 (wordpress-server)' instance are expanded, showing the following information:

- Instance ID:** i-087d25641d6250683 (wordpress-server)
- Public IPv4 address:** 52.66.208.79 | [open address](#)
- Private IPv4 addresses:** 10.0.1.94
- Instance state:** Running
- Public IPv4 DNS:** -
- IPv6 address:** -
- Private IP DNS name (IPv4 only):** ip-10-0-1-94.ap-south-1.compute.internal
- Hostname type:** -
- IP name:** ip-10-0-1-94.ap-south-1.compute.internal
- Answer private resource DNS name:** -
- Instance type:** t2.micro
- Elastic IP addresses:** -

The screenshot shows a web browser displaying the 'microservices-project' homepage. The page has a clean, modern design with a light gray background. The main heading reads 'This is microservices architecture.' followed by the subtext 'Used Wordpress instance in public subnet and mysql instance in private subnet.' Below this text is a dark button labeled 'About us'. The background image is a photograph of a modern building with a glass facade, viewed from a low angle looking up.

Delete all the resources.

And Wrap...