

## DAY-02 Assignment

# Create a VPC in AWS. Create a public and private subnet in it: -

1:- Created a VPC: -

VPC > Your VPCs > vpc-0009c9b028c7ede7e

### vpc-0009c9b028c7ede7e / VPC

Actions ▼

Details Info

VPC ID vpc-0009c9b028c7ede7e	State Available	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0df9df869be88922e	Main route table rtb-0f042e6e21140f1cf	Main network ACL acl-0c24168c26bcfeec7
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR (Network border group) -
Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 975050349146	

2: - Created an Internet Gateway: -

Internet gateways (1) Info

Search

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<input type="checkbox"/>	Name	Internet gateway ID	State	VPC ID
<input type="checkbox"/>	IGTW-VPC	igw-03787b69b4706efbf	Attached	vpc-0009c9b028c7ede7e   VPC

3: - Created a Subnets: -

- Created a Public Subnet & Private Subnets

You have successfully created 1 subnet: subnet-0e6646fe74f1c6494

Subnets (4) Info

Find resources by attribute or tag

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Create subnet

<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 C
<input type="checkbox"/>	-	subnet-0640e040ca315bc4e	Available	vpc-04f120302091d2e37	172.3
<input type="checkbox"/>	-	subnet-0f432a966d7a15a72	Available	vpc-04f120302091d2e37	172.3
<input type="checkbox"/>	VPC-Public_Subnet	subnet-0a06b7761df2e6efe	Available	vpc-0009c9b028c7ede7e   VPC	10.0.1
<input type="checkbox"/>	VPC-Private-Subnet	subnet-0e6646fe74f1c6494	Available	vpc-0009c9b028c7ede7e   VPC	10.0.2

#### 4: - Created a Route Table for Public Subnet:-

VPC > Route tables > rtb-04677cc605f5c2744

### rtb-04677cc605f5c2744 / RT-Public

Actions ▾

**Details** Info

Route table ID rtb-04677cc605f5c2744	Main No	Explicit subnet associations <a href="#">subnet-0a06b7761df2e6efe</a> / VPC-Public_Subnet	Edge associations -
VPC <a href="#">vpc-0009c9b028c7ede7e</a>   VPC	Owner ID 975050349146		

Routes Subnet associations Edge associations Route propagation Tags

**Routes (2)** Both ▾ Edit routes

Filter routes

Destination ▾	Target ▾	Status ▾	Propagated ▾
0.0.0.0/0	<a href="#">igw-03787b69b4706efbf</a>	Active	No
10.0.0.0/16	local	Active	No

- Adding a Internet Gateway connection in the route table of public subnet

VPC > Route tables > rtb-04677cc605f5c2744

### rtb-04677cc605f5c2744 / RT-Public

Actions ▾

**Details** Info

Route table ID rtb-04677cc605f5c2744	Main No	Explicit subnet associations <a href="#">subnet-0a06b7761df2e6efe</a> / VPC-Public_Subnet	Edge associations -
VPC <a href="#">vpc-0009c9b028c7ede7e</a>   VPC	Owner ID 975050349146		

Routes Subnet associations Edge associations Route propagation Tags

**Explicit subnet associations (1)** Edit subnet associations

Find subnet association

Name ▾	Subnet ID ▾	IPv4 CIDR ▾	IPv6 CIDR ▾
VPC-Public_Subnet	<a href="#">subnet-0a06b7761df2e6efe</a>	10.0.1.0/24	-

- Adding a subnet association rule in the route table
- Adding two different route tables, one for public and one for private because i am giving internet connection to public subnet.

## 5:- Created a Route Table for Private Subnet: -

VPC > Route tables > rtb-0a66929a1cde48cb9

### rtb-0a66929a1cde48cb9 / RT-PRIVATE

Actions ▼

**Details** Info

Route table ID rtb-0a66929a1cde48cb9	Main No	Explicit subnet associations subnet-0e6646fe74f1c6494 / VPC-Private-Subnet	Edge associations -
VPC vpc-0009c9b028c7ede7e   VPC	Owner ID 975050349146		

Routes Subnet associations Edge associations Route propagation Tags

**Explicit subnet associations (1)** Edit subnet associations

Find subnet association

Name	Subnet ID	IPv4 CIDR	IPv6 CIDR
VPC-Private-Subnet	subnet-0e6646fe74f1c6494	10.0.2.0/24	-

- I am creating a Route table for private subnet and add subnet association rule to VPC-private subnet in the private route table .

## 6:- Created a EC2 Instances : -

Instances (2) Info

Find Instance by attribute or tag (case-sensitive) Any state

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	Private-EC2-In...	i-08ff4562b2979618b	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a	-
<input type="checkbox"/>	Public-EC2-Ins...	i-00d3dc5f4e9a6c577	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1a	-

- I created two instances inside the private and public subnets and access the public instance remotely

### Connect to instance

Connect to your instance i-00d3dc5f4e9a6c577 (Public-EC2-Instance) using any of these options

EC2 Instance Connect Session Manager SSH client EC2 serial console

Instance ID  
i-00d3dc5f4e9a6c577 (Public-EC2-Instance)

- Open an SSH client.
- Locate your private key file. The key used to launch this instance is Key-Pair-For-demo.pem
- Run this command, if necessary, to ensure your key is not publicly viewable.  
chmod 400 "Key-Pair-For-demo.pem"
- Connect to your instance using its Public IP:  
65.0.100.36

Example:  
ssh -i "Key-Pair-For-demo.pem" ubuntu@65.0.100.36

- I connected a public instance remotely

```
ubuntu@ip-10-0-1-82: ~  
System information as of Fri Feb  2 11:43:45 UTC 2024  
  
System load:  0.0          Processes:           97  
Usage of /:   20.5% of 7.57GB  Users logged in:    0  
Memory usage: 21%          IPv4 address for eth0: 10.0.1.82  
Swap usage:   0%  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-10-0-1-82:~$ |
```

- Completed all these steps.