

VPC Tasks-01

- Create VPC with 2 private and 2 public subnets.

<input type="checkbox"/>	Private-sub	subnet-05242fffd63527883	✔ Available	vpc-0da9b96a292e58c82 Test...	☾ Off	172.168.0.0/28
<input type="checkbox"/>	Public-sub	subnet-0279d0606bfef189e	✔ Available	vpc-0da9b96a292e58c82 Test...	☾ Off	172.168.0.32/27
<input type="checkbox"/>	Pri-sub	subnet-0e2d051b0dddf80e60	✔ Available	vpc-0da9b96a292e58c82 Test...	☾ Off	172.168.0.80/28
<input type="checkbox"/>	Pub-sub	subnet-0621f2affd3c2e6ab	✔ Available	vpc-0da9b96a292e58c82 Test...	☾ Off	172.168.0.112/28

Select a subnet

- Enable DNS Hostname in VPC.

Details			
VPC ID vpc-0da9b96a292e58c82	State ✔ Available	Block Public Access ☾ Off	DNS hostnames Enabled
DNS resolution Enabled	Tenancy default	DHCP option set dopt-054937f55b4bc2575	Main route table -
Main network ACL -	Default VPC No	IPv4 CIDR 172.168.0.0/24	IPv6 pool -
IPv6 CIDR (Network border group) -	Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 526018540742

- Enable Auto Assign Public IP in 2 public subnets.

subnet-0279d0606bfef189e / Public-sub			
Details	Flow logs	Route table	Network ACL
Details			
Subnet ID subnet-0279d0606bfef189e	Subnet ARN arn:aws:ec2:us-east-1:526018540742:subnet/subnet-0279d0606bfef189e	State ✔ Available	IPv6 CIDR -
IPv4 CIDR 172.168.0.32/27	Available IPv4 addresses 27	IPv6 CIDR -	VPC vpc-0da9b96a292e58c82 Test-vpc
Availability Zone use1-az2 (us-east-1b)	Network border group us-east-1	Auto-assign public IPv4 address Yes	Auto-assign public IPv4 address Yes
Network ACL -	Default subnet No	Auto-assign public IPv4 address Yes	Auto-assign public IPv4 address Yes
subnet-0621f2affd3c2e6ab / Pub-sub			
Details			
Subnet ID subnet-0621f2affd3c2e6ab	Subnet ARN arn:aws:ec2:us-east-1:526018540742:subnet/subnet-0621f2affd3c2e6ab	State ✔ Available	IPv6 CIDR -
IPv4 CIDR 172.168.0.112/28	Available IPv4 addresses 11	IPv6 CIDR -	VPC vpc-0da9b96a292e58c82 Test-vpc
Availability Zone use1-az2 (us-east-1b)	Network border group us-east-1	Auto-assign public IPv4 address Yes	Auto-assign public IPv4 address Yes
Network ACL -	Default subnet No	Auto-assign public IPv4 address Yes	Auto-assign public IPv4 address Yes

VPC Tasks-01

- Add 2 private subnets in private route table.

rtb-0fb103b14d7a2c239 / Test-tab

Details [Info](#)

Route table ID
rtb-0fb103b14d7a2c239

VPC
vpc-0da9b96a292e58c82 | Test-vpc

Main
No

Owner ID
526018540742

Explicit subnet associations
[2 subnets](#)

Routes

Subnet associations

Edge associations

Route propagation

Tags

Explicit subnet associations (2)

Name	Subnet ID	IPv4 CIDR
Private-sub	subnet-05242fffd63527883	172.168.0.0/28
Pri-sub	subnet-0e2d051b0ddf80e60	172.168.0.80/28

- Add 2 public subnets in public route table.

rtb-0c576e1eccce3b766 / Pub-tab

Details [Info](#)

Route table ID
rtb-0c576e1eccce3b766

VPC
vpc-0da9b96a292e58c82 | Test-vpc

Main
No

Owner ID
526018540742

Explicit subnet associations
[2 subnets](#)

Routes

Subnet associations

Edge associations

Route propagation

Tags

Explicit subnet associations (2)

Name	Subnet ID	IPv4 CIDR
Public-sub	subnet-0279d0606bfef189e	172.168.0.32/27
Pub-sub	subnet-0621f2affd3c2e6ab	172.168.0.112/28

- Public route table will have the routes to internet and local.

Routes (2) Both

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	igw-0436b6f51e1b610a7	Active	No	Create Route
172.168.0.0/24	local	Active	No	Create Route Table

VPC Tasks-01

- Create EC2 in public subnet with t2.micro and install PHP.

- Configure NAT gateway in public subnet and connect to private instance.

```
[ec2-user@ip-172-168-0-56 ~]$ chmod 600 Linux-key.pem
[ec2-user@ip-172-168-0-56 ~]$ ssh -i Linux-key.pem ec2-user@172.168.0.9
```

```
~\_ ##### Amazon Linux 2023
~~~ \#####\
~~~~ \|###|
~~~~ \|#/ _____ https://aws.amazon.com/linux/amazon-linux-2023
~~~~ V~' '->
~~~~
~~~~
~~~~
~~~~
~/m/' '->
```

```
[ec2-user@ip-172-168-0-9 ~]$ ping google .com
ping: .com: Name or service not known
[ec2-user@ip-172-168-0-9 ~]$ ping google.com
PING google.com (172.253.115.100) 56(84) bytes of data:
64 bytes from bg-in-f100.1e100.net (172.253.115.100): icmp_seq=1 ttl=105 time=2.40 ms
64 bytes from bg-in-f100.1e100.net (172.253.115.100): icmp_seq=2 ttl=105 time=1.84 ms
64 bytes from bg-in-f100.1e100.net (172.253.115.100): icmp_seq=3 ttl=105 time=1.93 ms
64 bytes from bg-in-f100.1e100.net (172.253.115.100): icmp_seq=4 ttl=105 time=1.84 ms
64 bytes from bg-in-f100.1e100.net (172.253.115.100): icmp_seq=5 ttl=105 time=1.86 ms
^C
```

VPC Tasks-01

- Install Apache Tomcat in private EC2 and deploy a sample app.

```
ec2-user@ip-172-168-0-9 ~]$ curl 172.168.0.9:8080

<html>
  <body>
    <h1>Tomcat Sample App Running</h1>
  </body>
</html>
```

- Configure VPC flow logs and store the logs in S3 and CloudWatch.

Log events ⌂ Actions ▾

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Q Filter events - press enter to search Clear 1m 30m 1h 12h Custom

▶	Timestamp	Message
		No older events at this moment. Retry
▶	2026-01-06T10:51:28.000Z	2 526018540742 eni-05e69328e4106cd04 172.168.0.9 3.94.91.31 36638 123 17 1 76 1767696688 1767696699 ACCEPT OK
▶	2026-01-06T10:51:28.000Z	2 526018540742 eni-05e69328e4106cd04 172.168.0.56 172.168.0.9 60016 22 6 16 1116 1767696688 1767696699 ACCEPT OK
▶	2026-01-06T10:51:28.000Z	2 526018540742 eni-05e69328e4106cd04 3.94.91.31 172.168.0.9 123 36638 17 1 76 1767696688 1767696699 ACCEPT OK
▶	2026-01-06T10:51:28.000Z	2 526018540742 eni-05e69328e4106cd04 172.168.0.9 172.168.0.56 22 60016 6 9 892 1767696688 1767696699 ACCEPT OK
▶	2026-01-06T10:51:58.000Z	2 526018540742 eni-05e69328e4106cd04 172.168.0.9 172.168.0.56 22 55842 6 28 4565 1767696718 1767696719 ACCEPT OK
▶	2026-01-06T10:51:58.000Z	2 526018540742 eni-05e69328e4106cd04 172.168.0.56 172.168.0.9 55842 22 6 35 4881 1767696718 1767696719 ACCEPT OK
▶	2026-01-06T10:52:49.000Z	2 526018540742 eni-05e69328e4106cd04 - - - - - 1767696769 1767696800 - NODATA
		No newer events at this moment. Auto retry paused. Resume