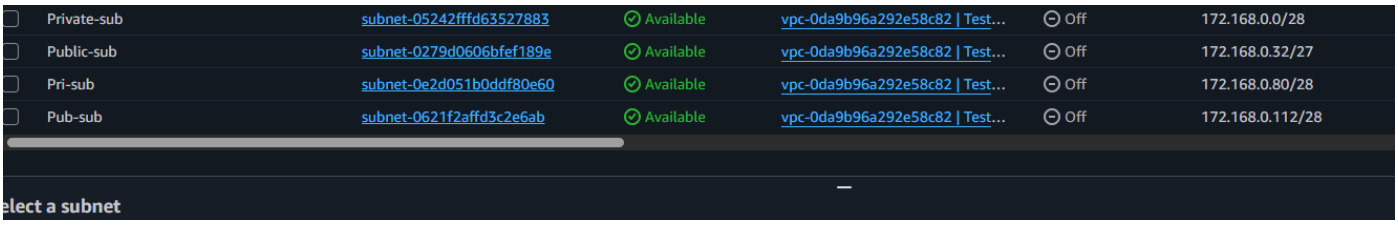
VPC Tasks-01

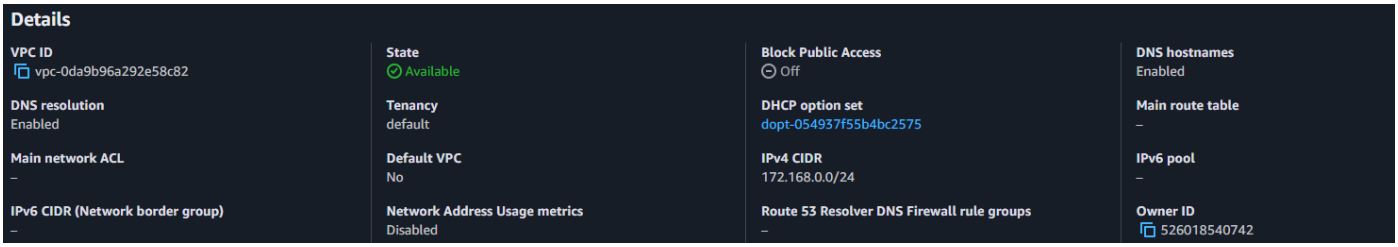
- Create VPC with 2 private and 2 public subnets.



Private-sub	subnet-05242fffd63527883	Available	vpc-0da9b96a292e58c82 | Test...	Off	172.168.0.0/28
Public-sub	subnet-0279d0606bfef189e	Available	vpc-0da9b96a292e58c82 | Test...	Off	172.168.0.32/27
Pri-sub	subnet-0e2d051b0ddf80e60	Available	vpc-0da9b96a292e58c82 | Test...	Off	172.168.0.80/28
Pub-sub	subnet-0621f2affd3c2e6ab	Available	vpc-0da9b96a292e58c82 | Test...	Off	172.168.0.112/28

elect a subnet

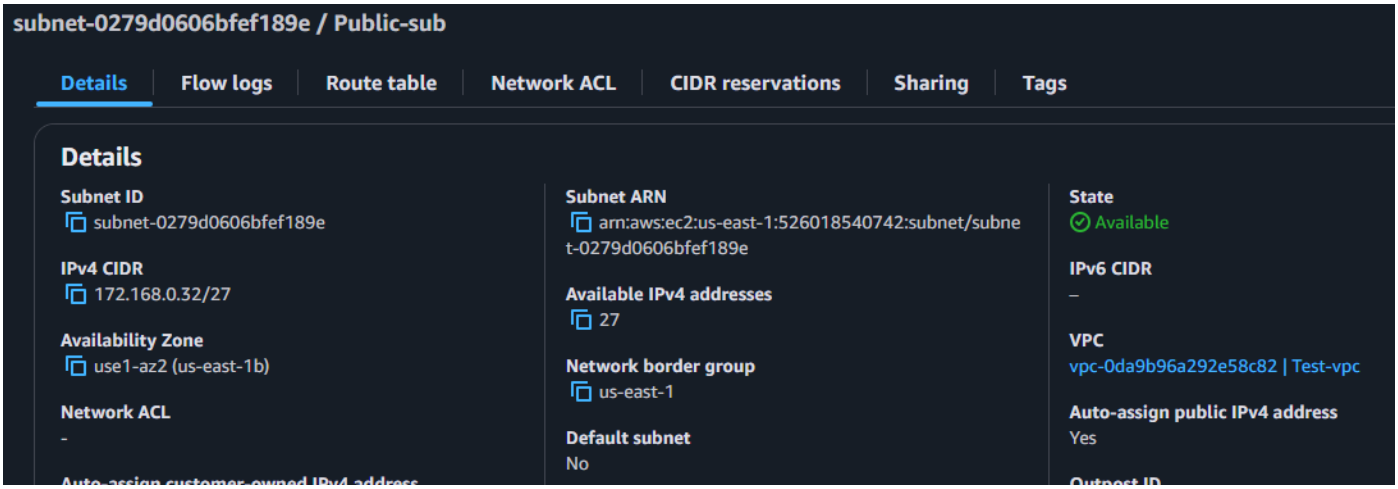
- Enable DNS Hostname in VPC.



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.

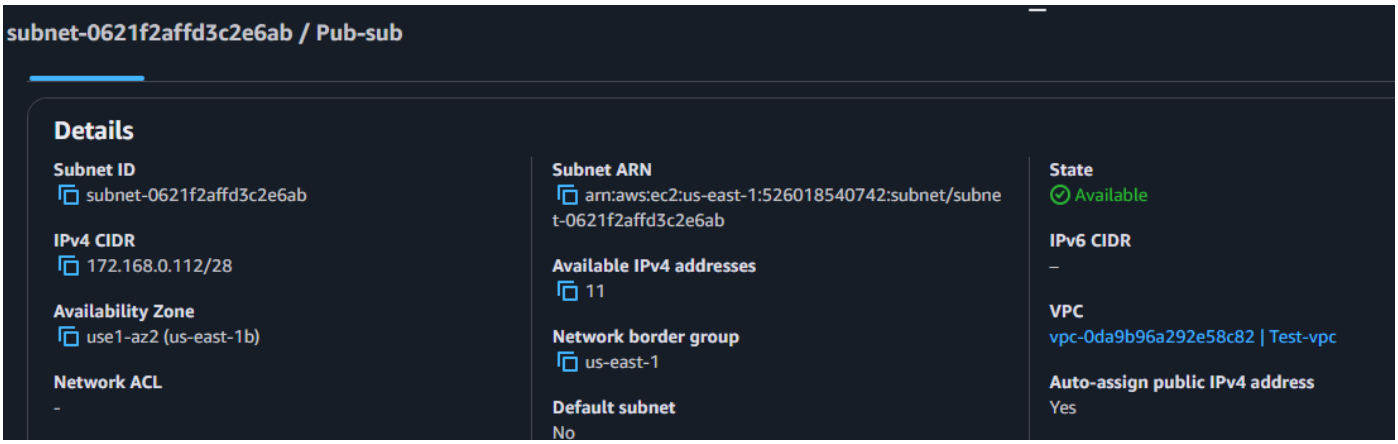


subnet-0279d0606bfef189e / Public-sub

Details | Flow logs | Route table | Network ACL | CIDR reservations | Sharing | Tags

Details

Subnet ID subnet-0279d0606bfef189e	**Subnet ARN** arn:aws:ec2:us-east-1:526018540742:subnet/subnet-0279d0606bfef189e	**State** Available
IPv4 CIDR 172.168.0.32/27	**Available IPv4 addresses** 27	**IPv6 CIDR** –
Availability Zone use1-az2 (us-east-1b)	**Network border group** us-east-1	**VPC** vpc-0da9b96a292e58c82 | Test-vpc
Network ACL -	**Default subnet** No	**Auto-assign public IPv4 address** Yes



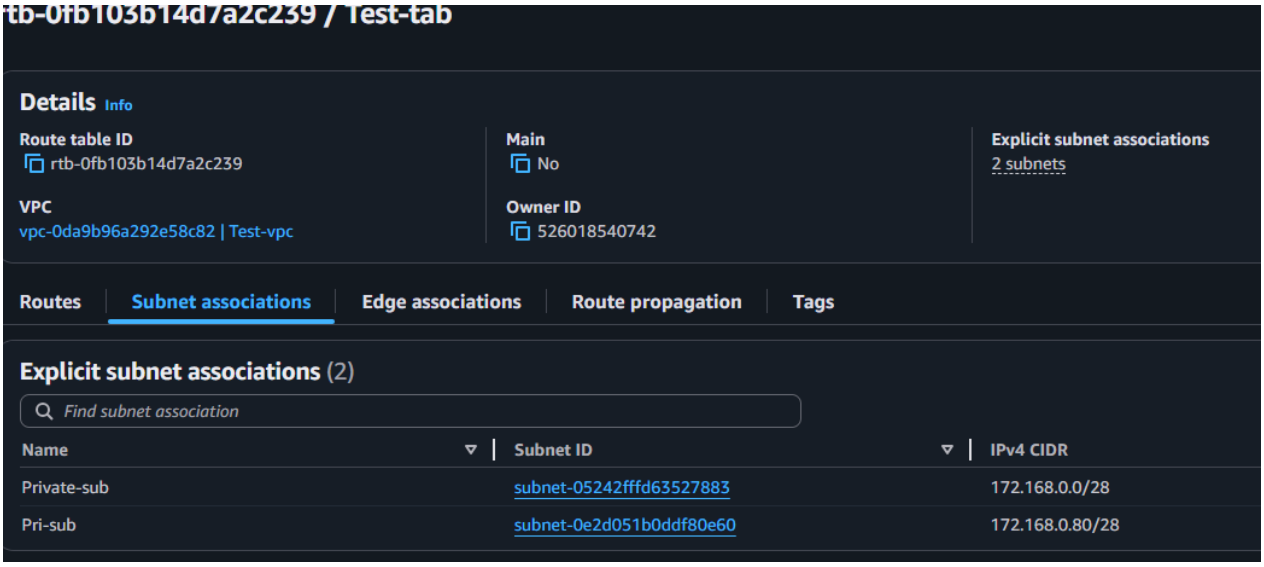
subnet-0621f2affd3c2e6ab / Pub-sub

Details

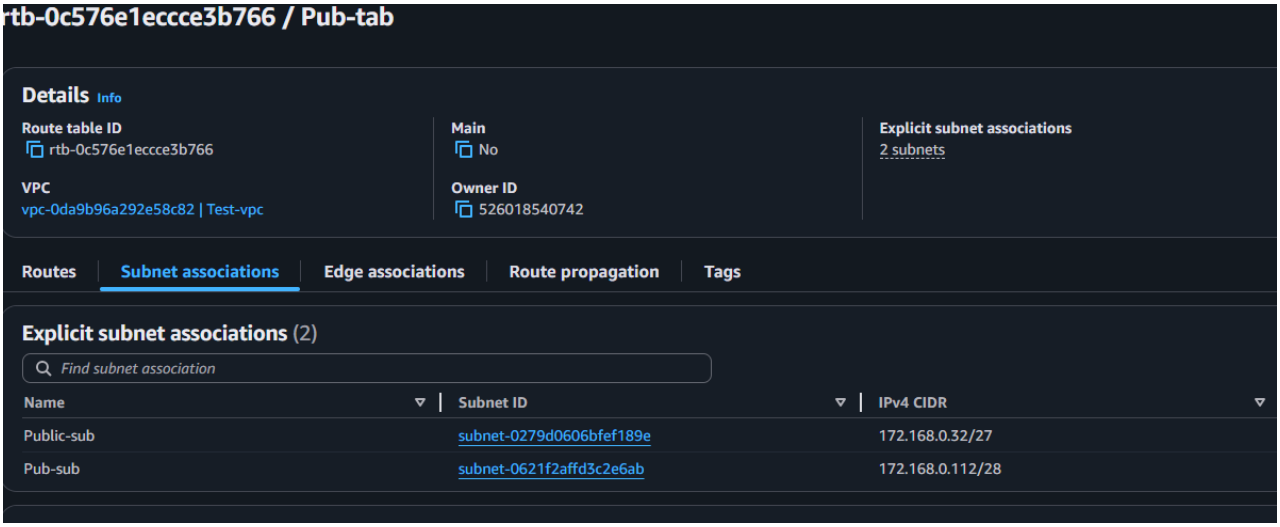
Subnet ID subnet-0621f2affd3c2e6ab	**Subnet ARN** arn:aws:ec2:us-east-1:526018540742:subnet/subnet-0621f2affd3c2e6ab	**State** Available
IPv4 CIDR 172.168.0.112/28	**Available IPv4 addresses** 11	**IPv6 CIDR** –
Availability Zone use1-az2 (us-east-1b)	**Network border group** us-east-1	**VPC** vpc-0da9b96a292e58c82 | Test-vpc
Network ACL -	**Default subnet** No	**Auto-assign public IPv4 address** Yes

VPC Tasks-01

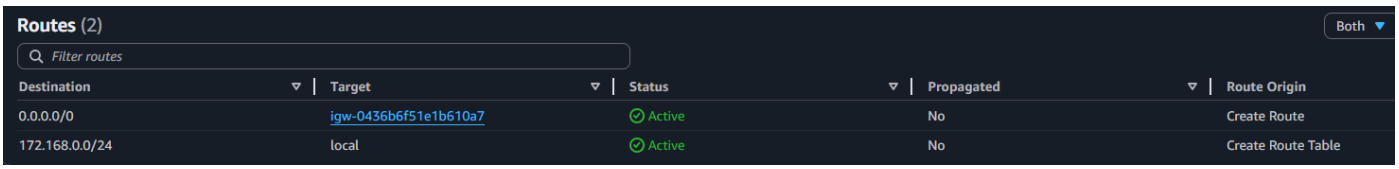
- Add 2 private subnets in private route table.



- Add 2 public subnets in public route table.

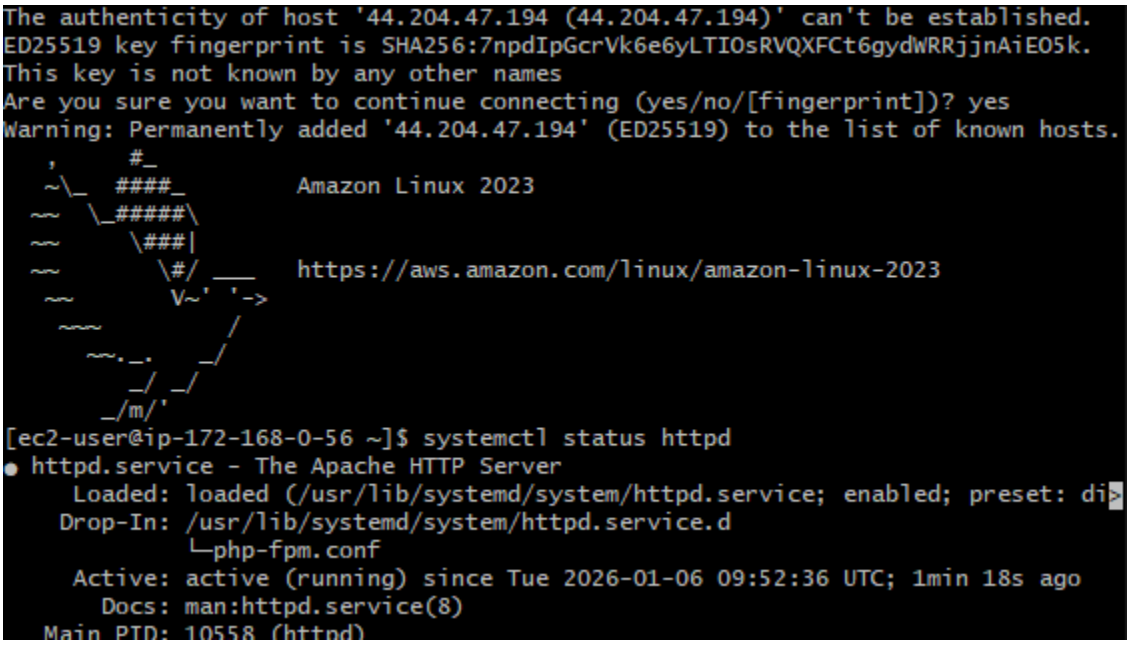


- Public route table will have the routes to internet and local.

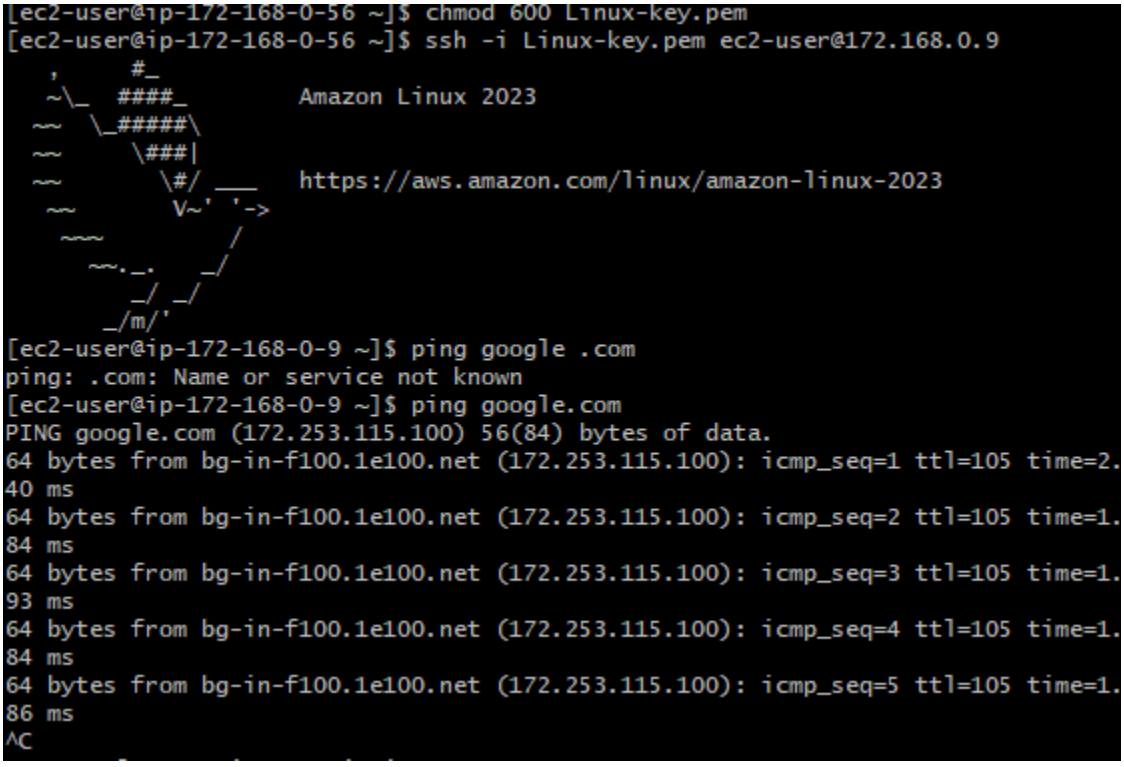


VPC Tasks-01

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



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



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.