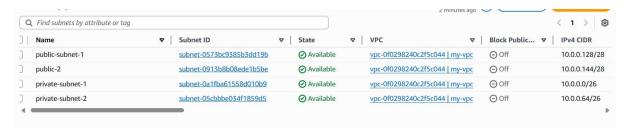
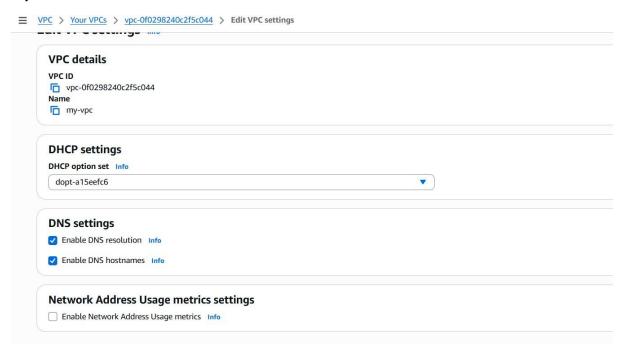
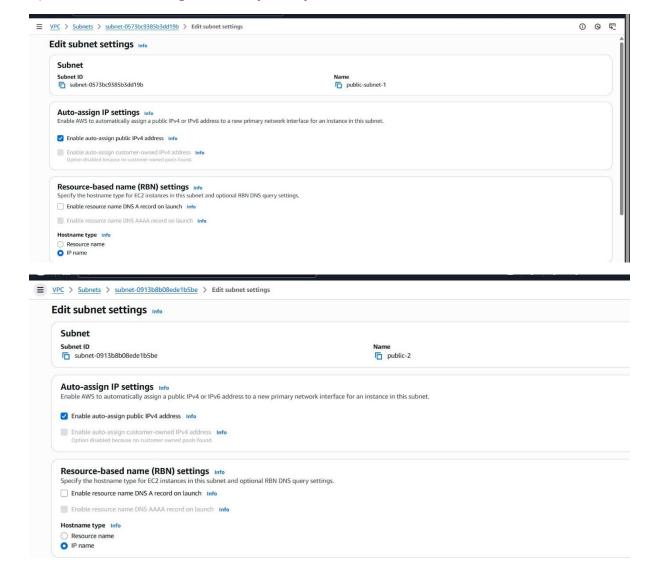
1) Create VPC with 2 private and 2 public subnets.



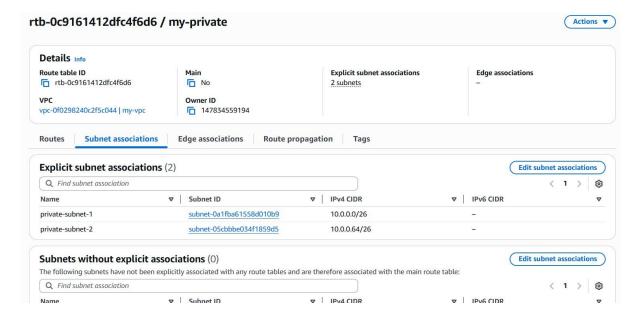
2) Enable DNS Hostname in VPC



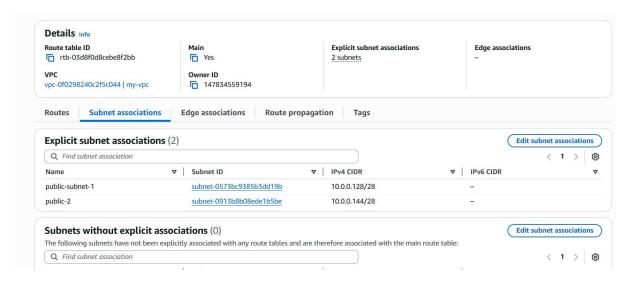
3) Enable Auto Assign Public ip in 2 public subnets



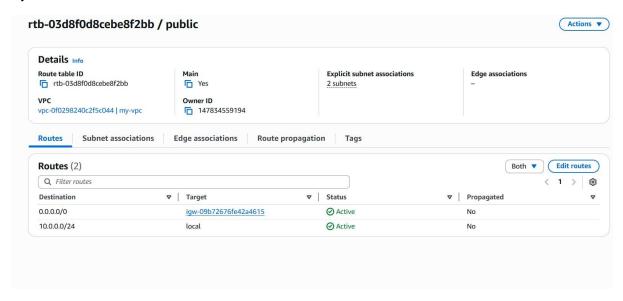
4) Add 2 private subnets in private route table



5) Add 2 public subnets in public route table



6) Public route table will have the routes to internet and local



7) Create Ec2 in public subnet with t2micro and install php

```
[root@ip-10-0-0-140 ec2-user]# php -v
PHP 5.4.16 (cli) (built: Apr 7 2025 16:22:27)
Copyright (c) 1997-2013 The PHP Group
Zend Engine v2.4.0, Copyright (c) 1998-2013 Zend Technologies
[root@ip-10-0-0-140 ec2-user]#
```

8) COnfigure Nat gateway in public subnet and connect to private Instance

Configured nat gateway in public subnet and connected to private instance

Public machine 10.0.0.140 for this machine logged in to 10.0.0.7 private machine and from that private machine pinging google.com

9) Install Apache Tomcat in private ec2 and deploy a sample app.

```
[root@ip-10-0-0-7 tomcat]# cd webapps/
[root@ip-10-0-0-7 webapps]# wget https://tomcat.apache.org/tomcat-9.0-doc/appdev
/sample/sample.war
--2025-06-09 12:47:50-- https://tomcat.apache.org/tomcat-9.0-doc/appdev/sample/
Resolving tomcat.apache.org (tomcat.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to tomcat.apache.org (tomcat.apache.org)|151.101.2.132|:443... connec
HTTP request sent, awaiting response... 200 OK
Length: 4606 (4.5K)
Saving to: 'sample.war'
                                                                               --.-K/s
                            in Os
2025-06-09 12:47:50 (30.0 MB/s) - 'sample.war' saved [4606/4606]
[root@ip-10-0-0-7 webapps]# ls
                    host-manager
       examples
                                        manager ROOT sample.war
docs examples host-manager manager ROOT sample.war
[root@ip-10-0-0-7 webapps]# ls
docs examples host-manager manager ROOT sample sample.war
[root@ip-10-0-0-7 webapps]# ls
docs examples host-manager manager ROOT sample sample.war
[root@ip-10-0-0-7 webapps]# clear
[root@ip-10-0-0-7 webapps]# curl http://localhost:8080/sample/
<html>
<head>
<title>Sample "Hello, World" Application</title>
 </head>
<body bgcolor=white>
<img src="images/tomcat.gif">

To prove that they work, you can execute either of the following links:
To a <a href="hello.jsp">JSP page</a>.To a <a href="hello">servlet</a>.</a>.
</11>
</body>
[root@ip-10-0-0-7 webapps]# |
```

10) Configure VPC flow logs and store the logs in s3 and cloudwatch.

