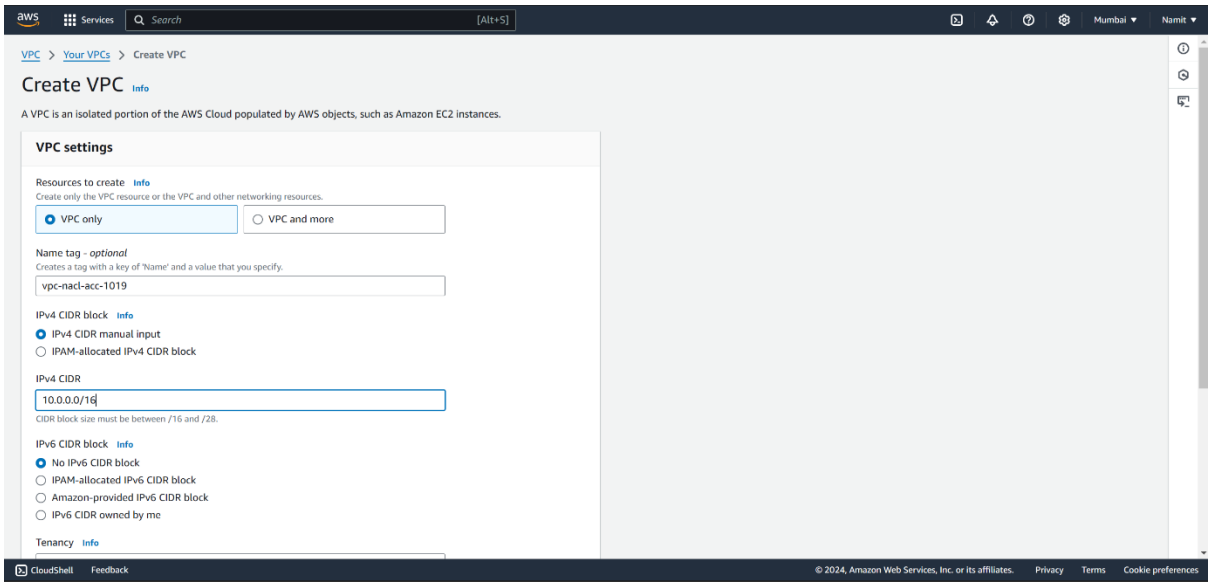
D Y PATIL INTERNATIONAL UNIVERSITY
AKURDI PUNE

School of Computer Science, Engineering and Applications (SCSEA)
B.C.A. TY (CCSA)
Subject: Advanced Cloud Computing (P)

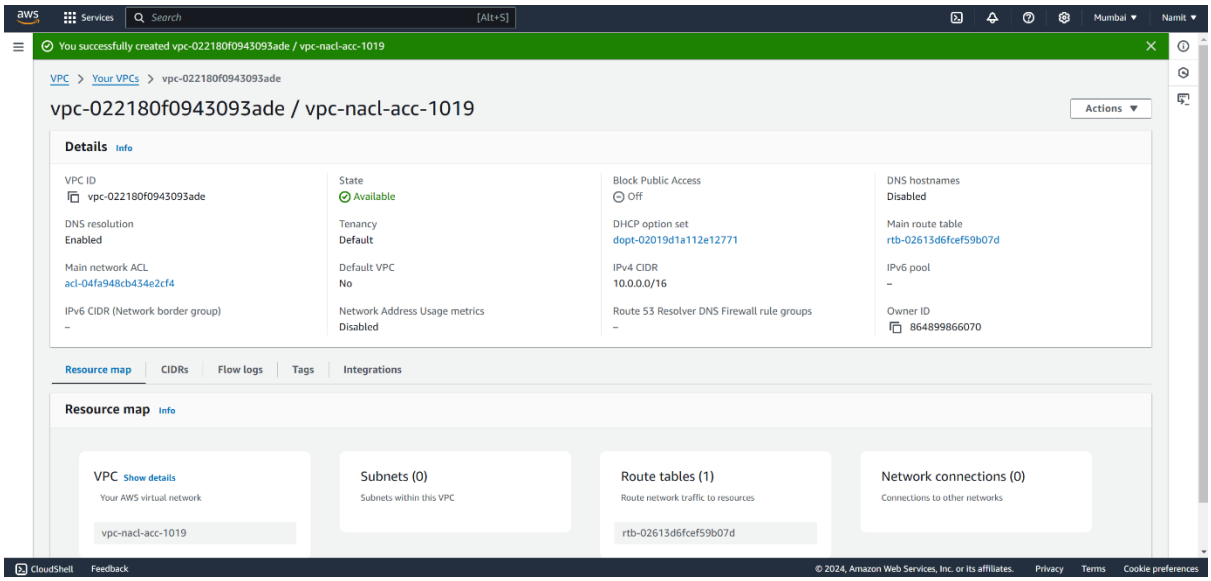
Name of the Student: Namit Agarwal **PRN:** 20220801019

Title of Practical: Configuring Layered Security in an AWS VPC(NACL)

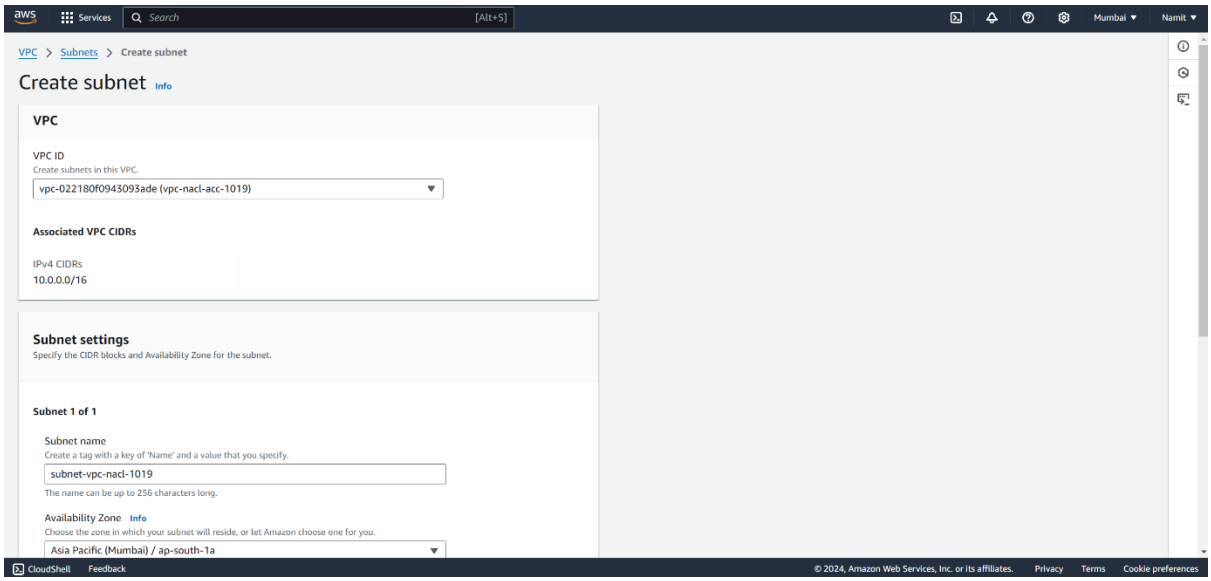
1. Create a VPC
    - Give name tag
    - IPv4 CIDR block – 10.0.0.0/16



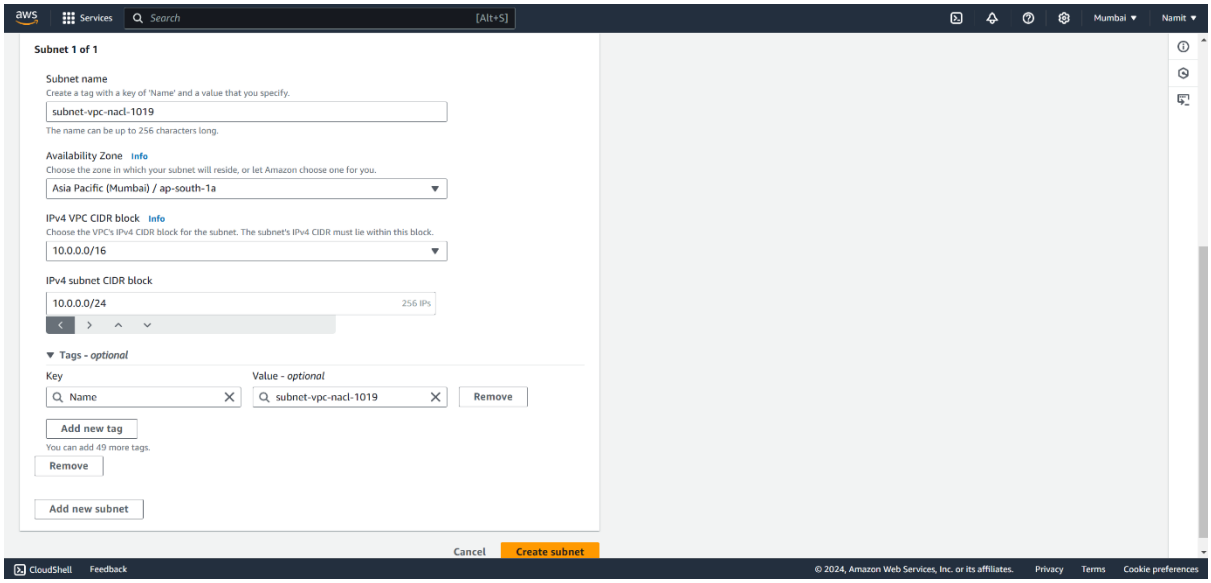
2. Create VPC



3. Now we create subnet
    - Select vpc that we created above
    - Give subnet name



- Select availability zone
- IPv4 subnet CIDR block – 10.0.0.0/24



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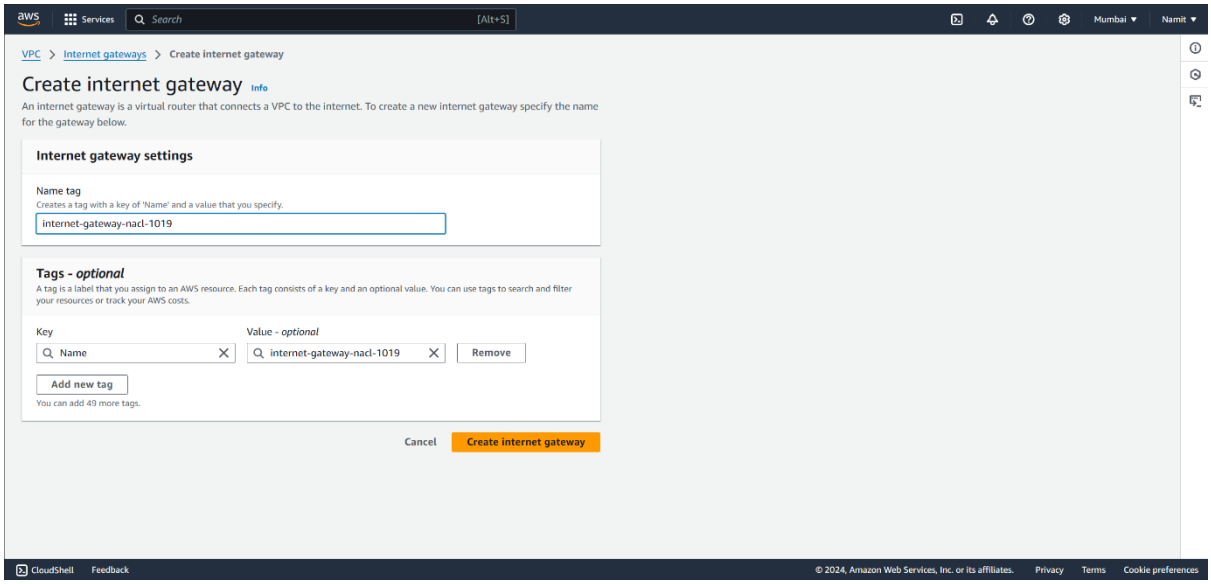
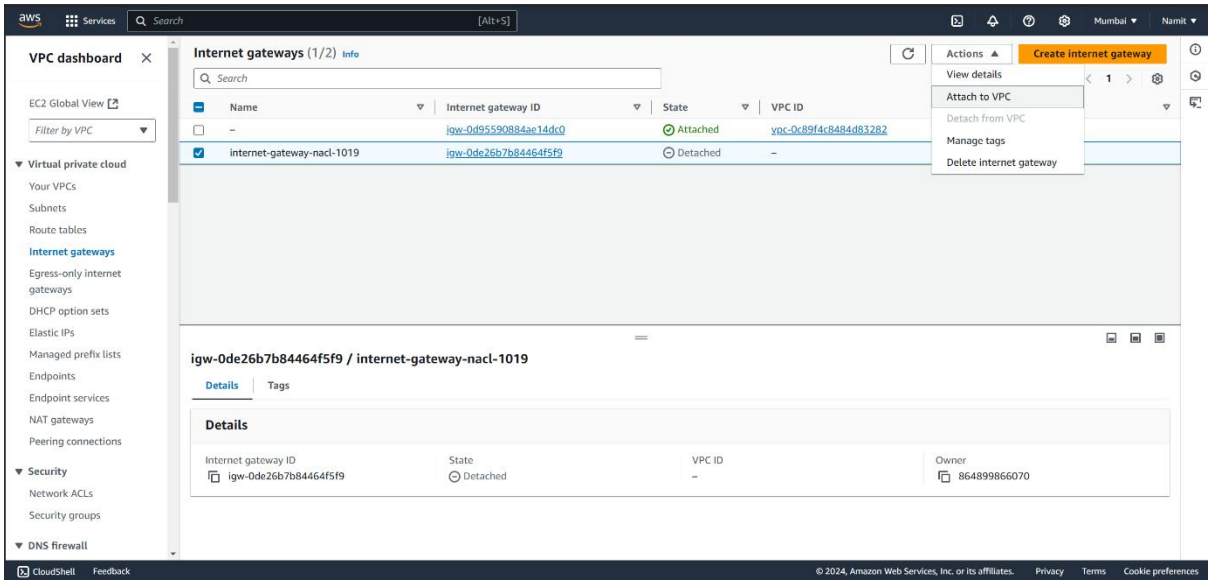
4. Now create internet gateway
   - Give name tag



   - Attach it to vpc that we created



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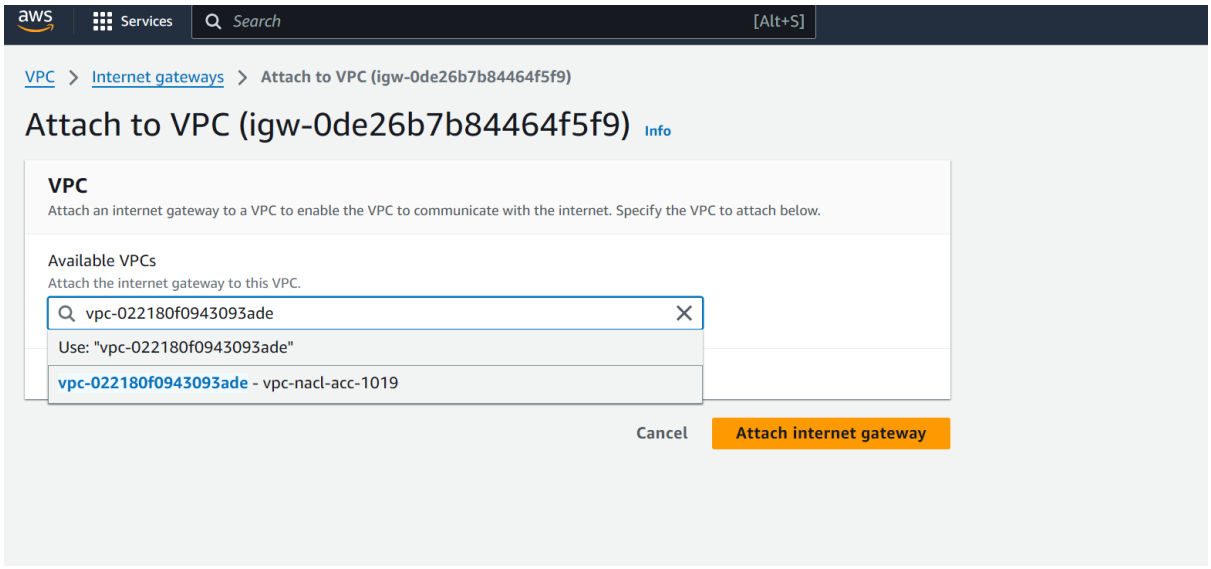
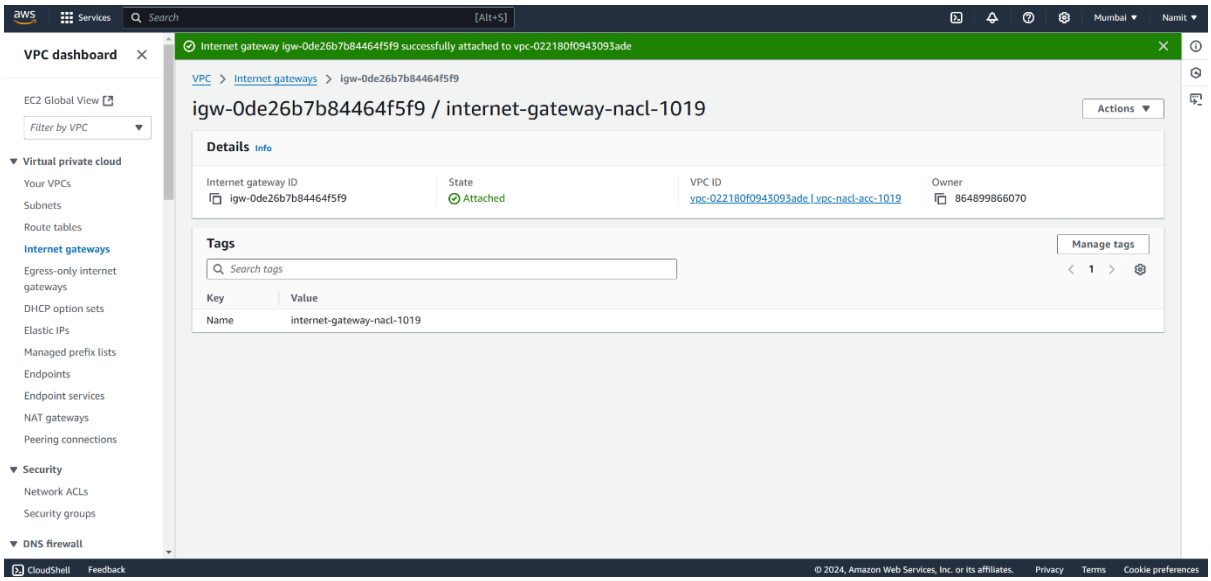
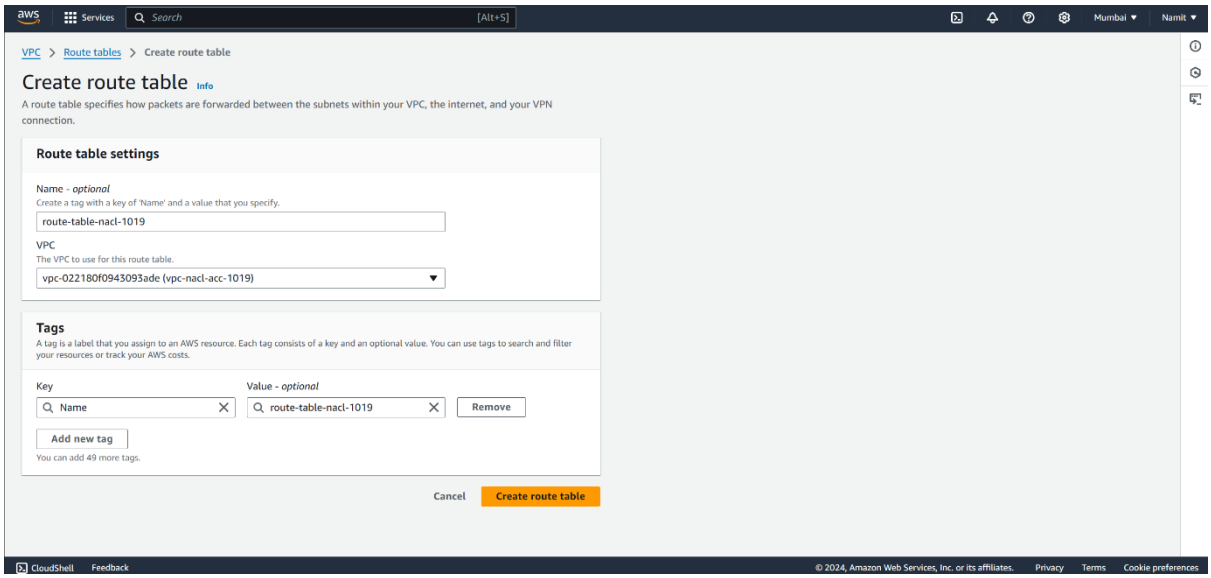
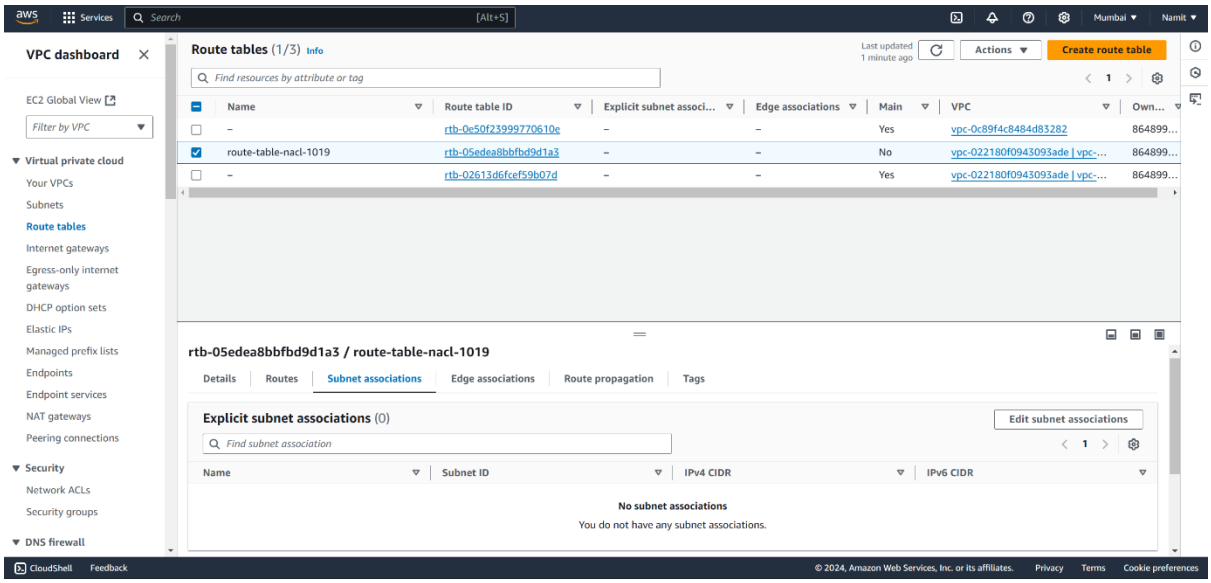




5. Create route table
    - Give name
    - Select vpc



- Edit subnet association



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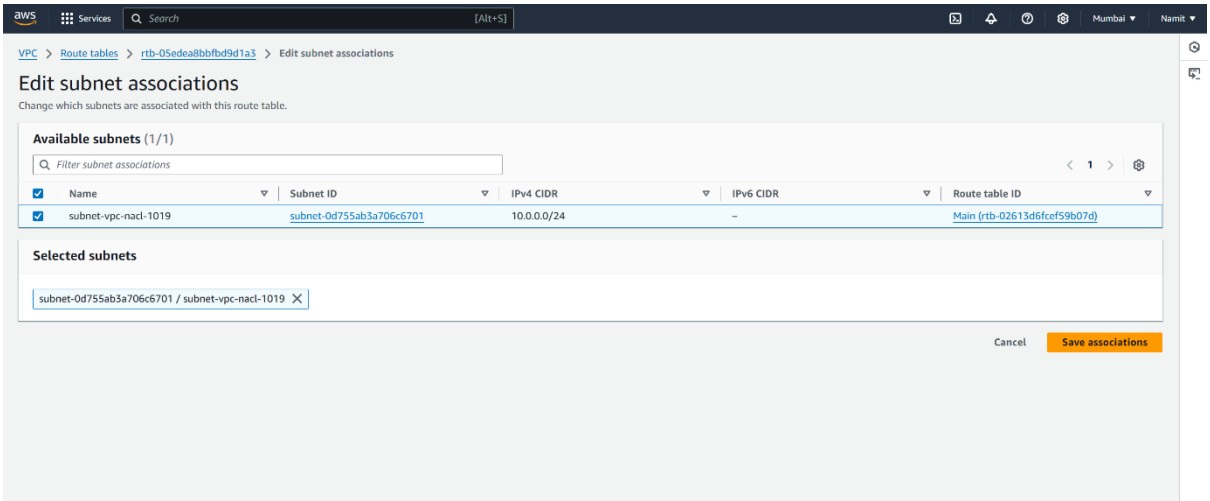
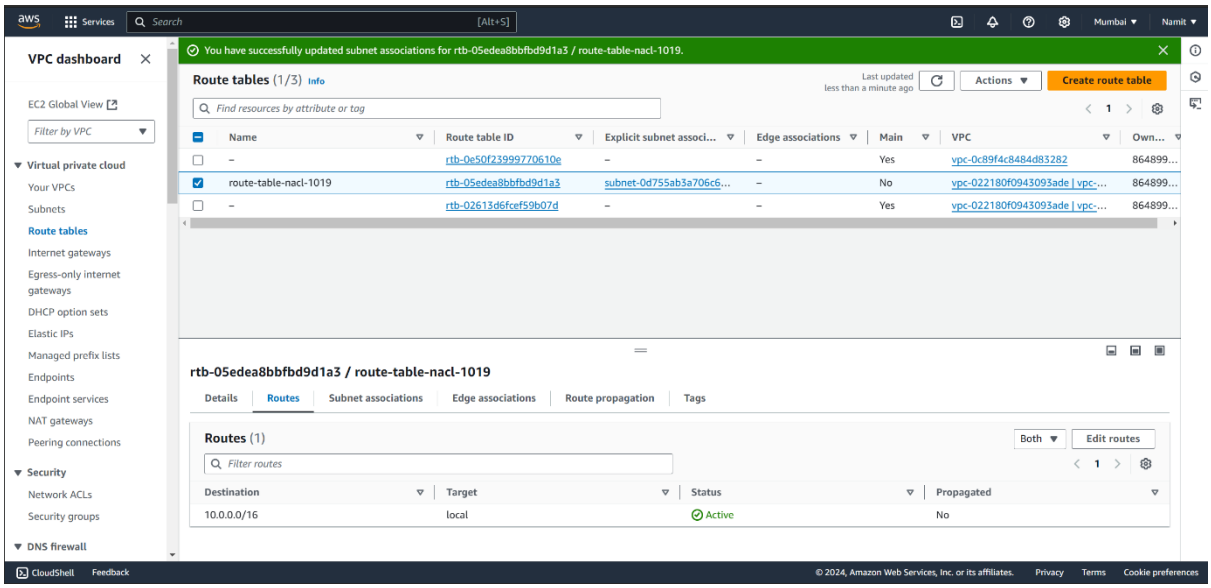
- Select subnet that we created above



- Now edit routees



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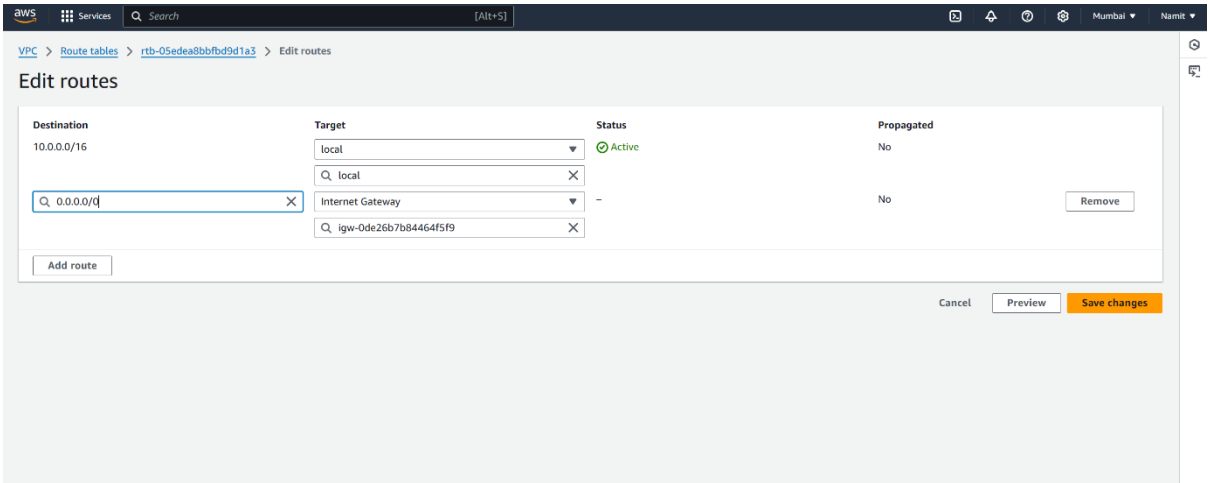
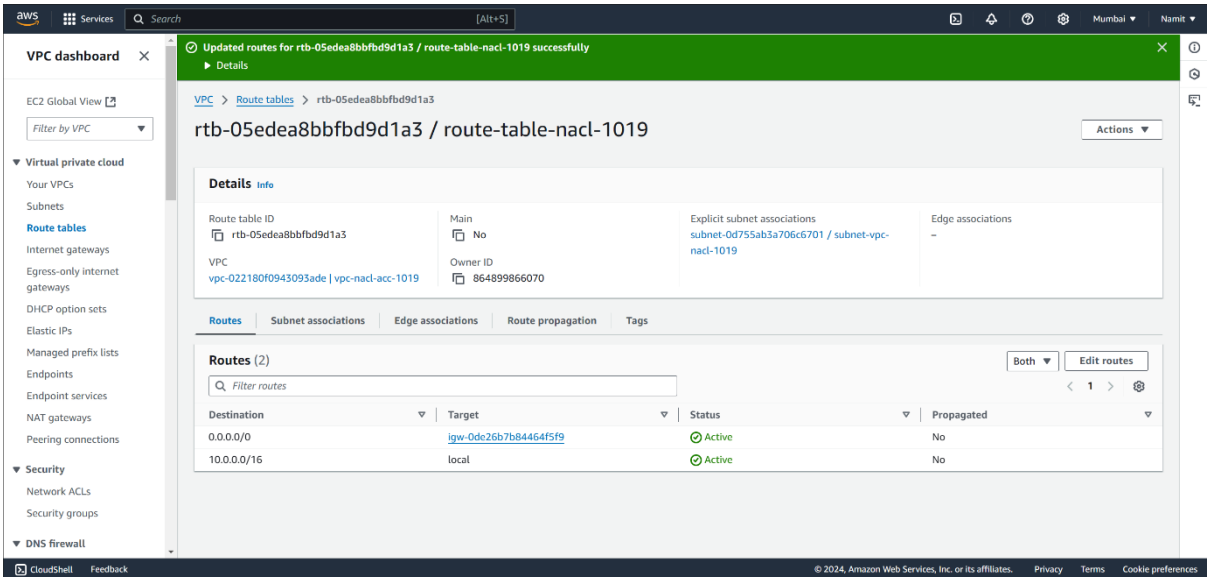
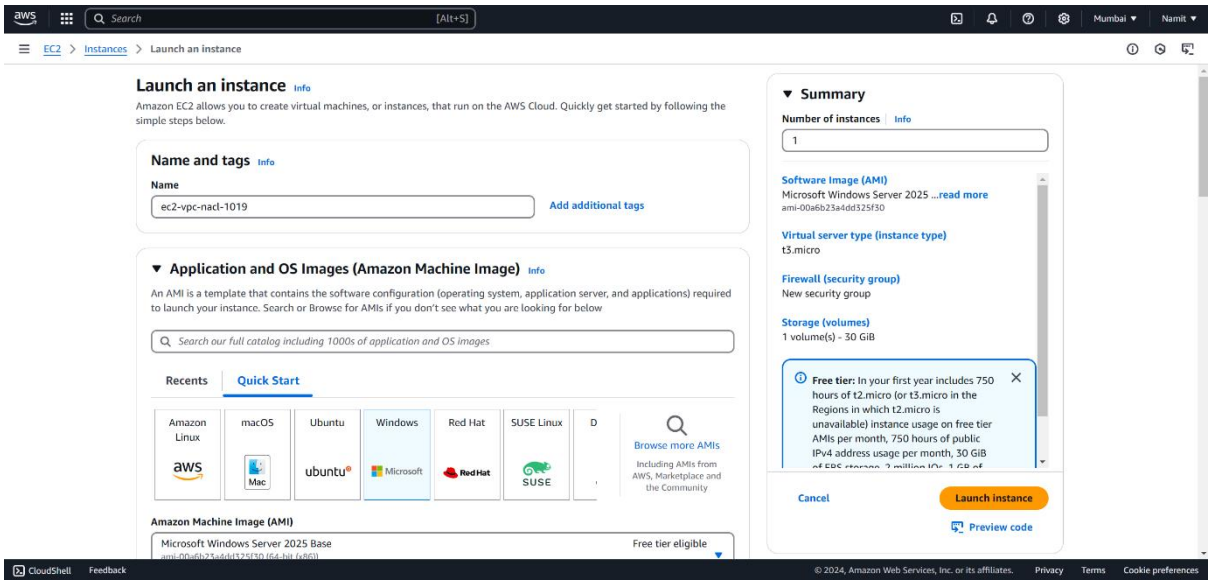
- Add route select destination 0.0.0.0/0 , target – internet gateway (select the one we created)

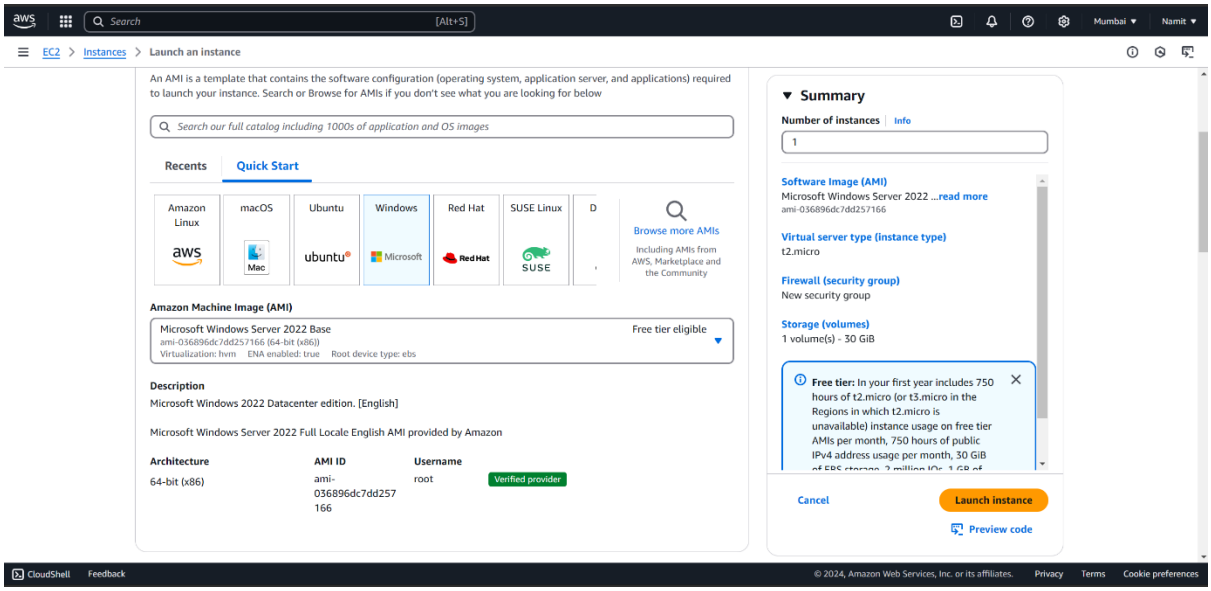




6. Now launch an EC2 instance



- Select Windows Server 2022 base as AMI



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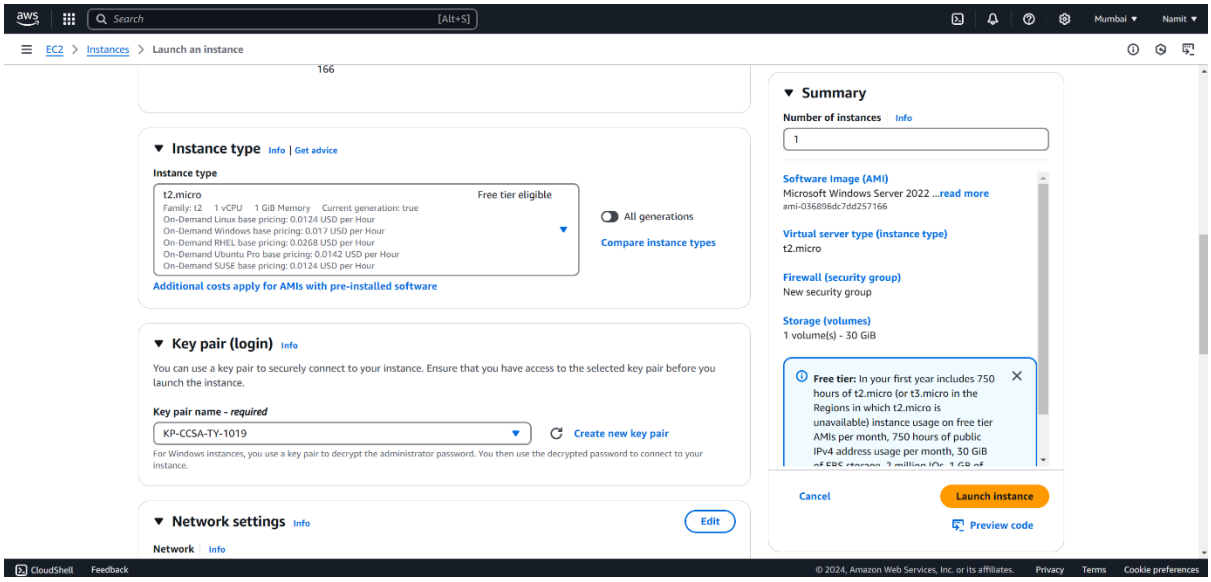
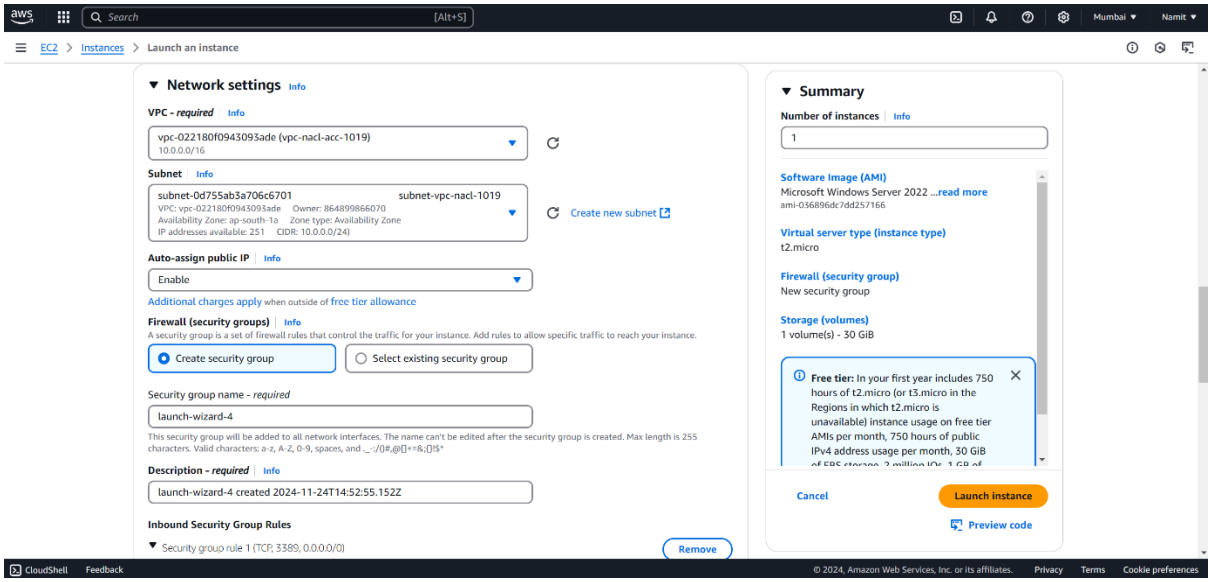
- Make or select existing key pair



- Edit network settings
- Select the vpc , subnet and enable auto assign ip



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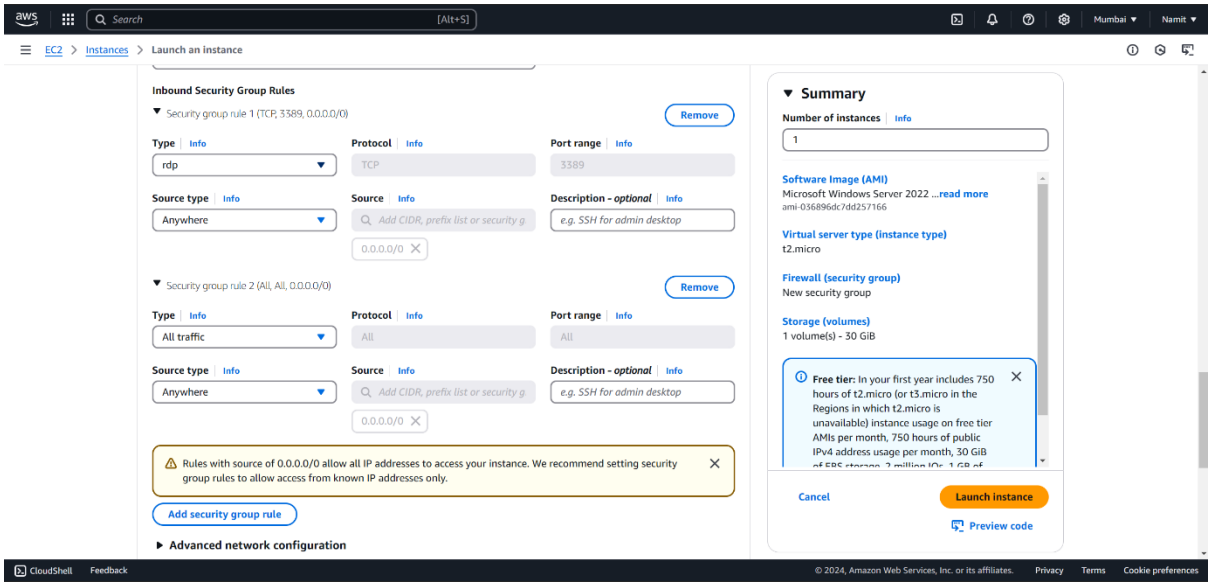
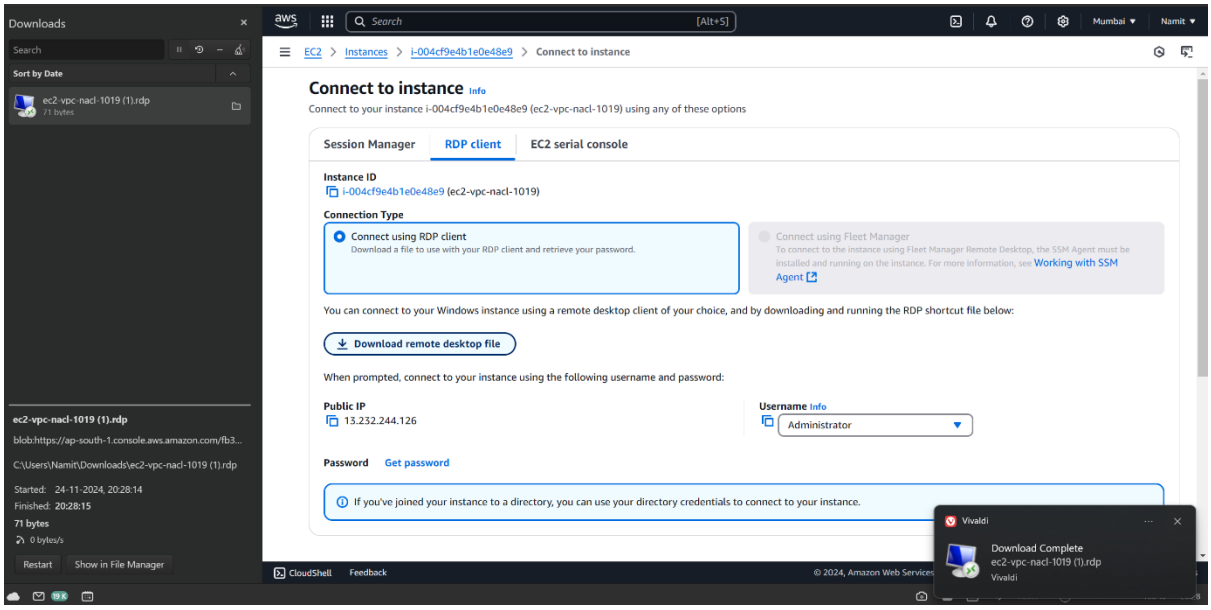
Title of Practical: Configuring Layered Security in an AWS VPC(NACL)

- Add security group rules
- All traffic and Anywhere
- Then launch instance



7. Download the rdp file



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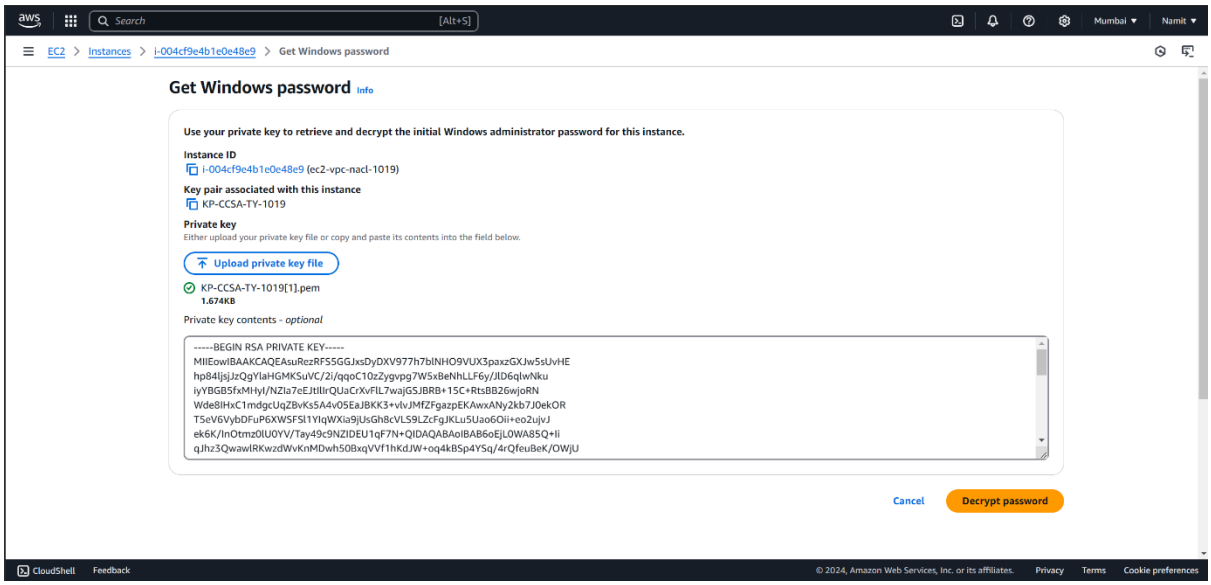
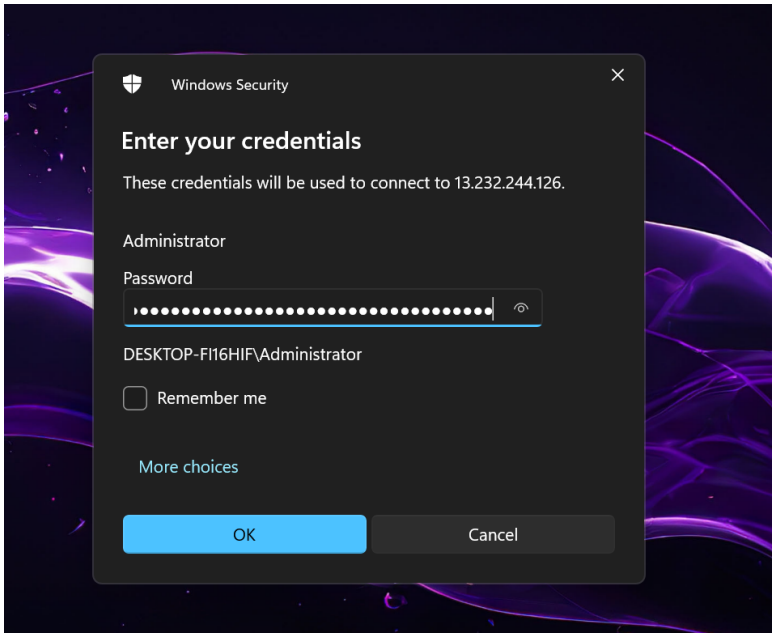
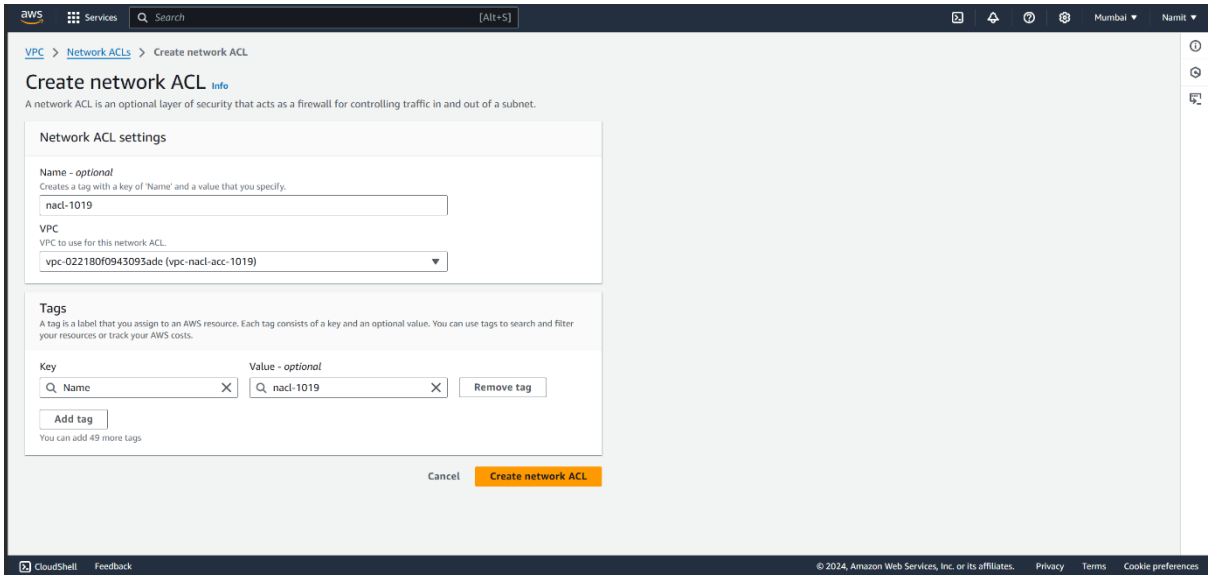
8. Decrypt and get the password

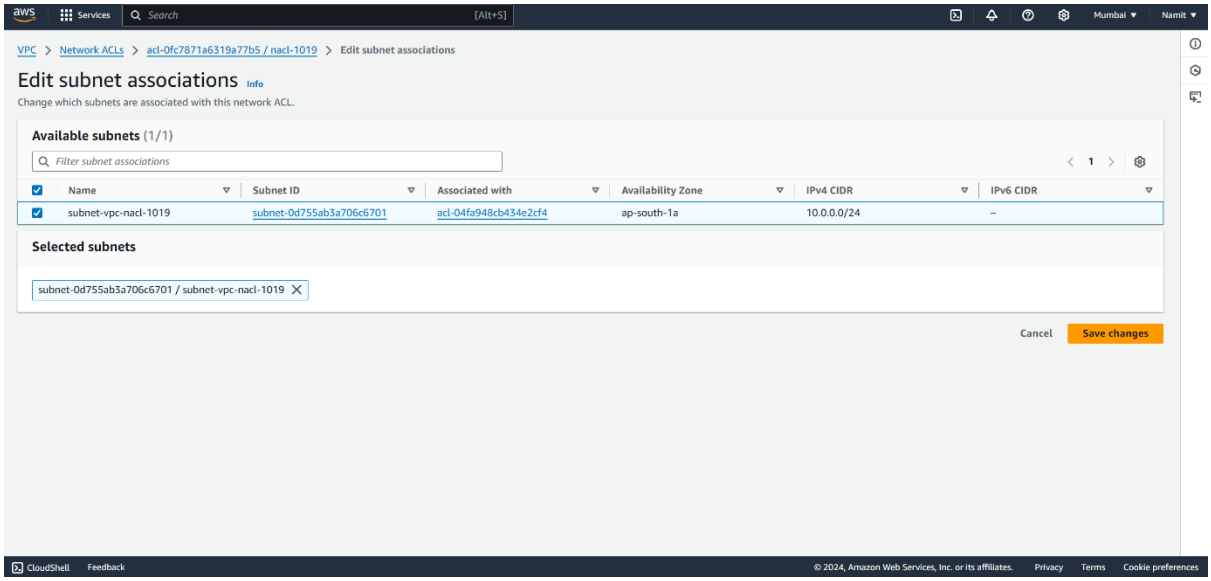




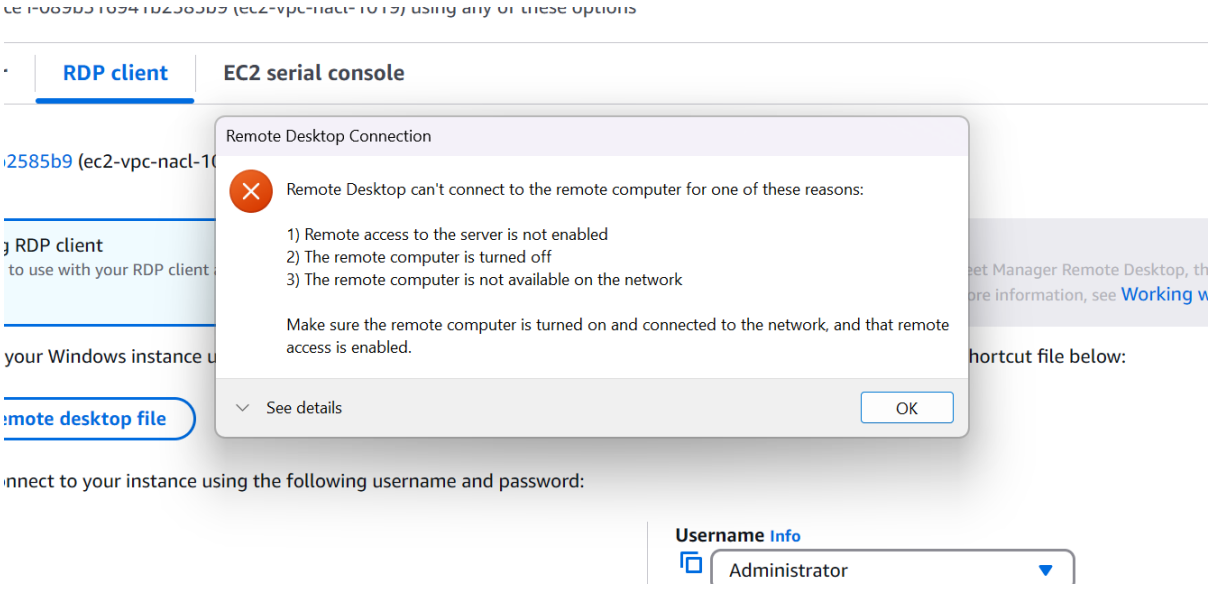
9. Now lets configure NACL
    - Create network ACL select the vpc we created



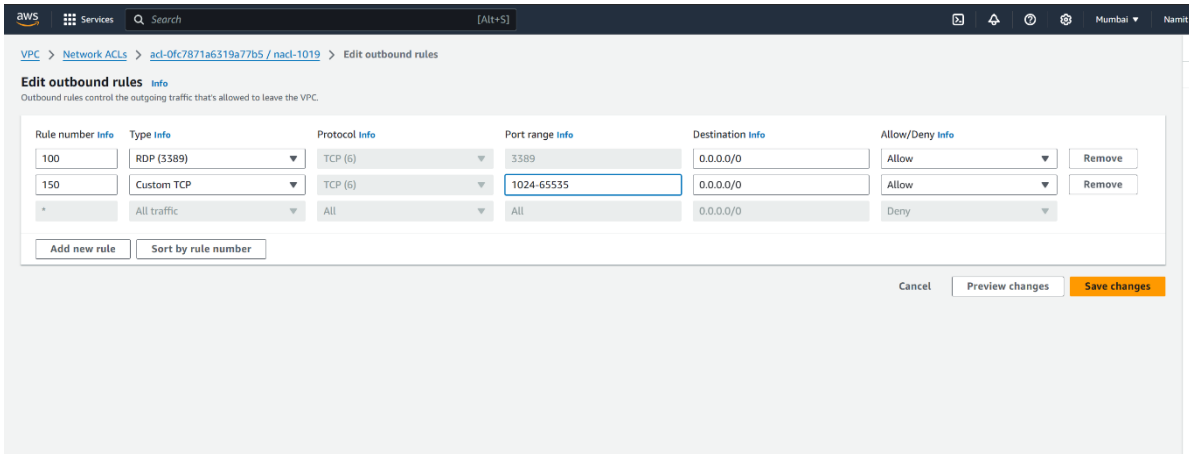
- Edit its subnet association and select the subnet we created



- Now because by default access is denied we wont be able to connect to our rdp



10. Lets add outbound rules
    - RDP and custom tcp – range – 1024-65535



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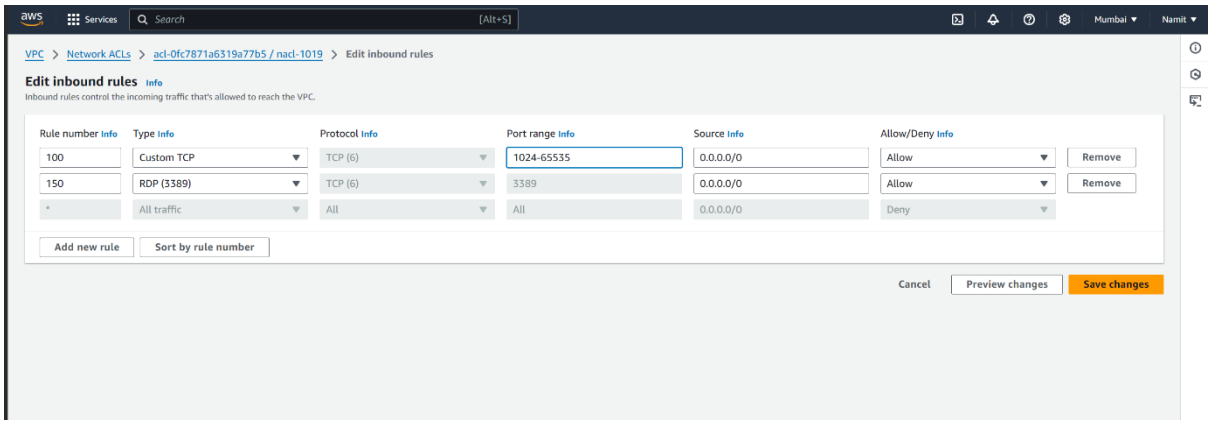
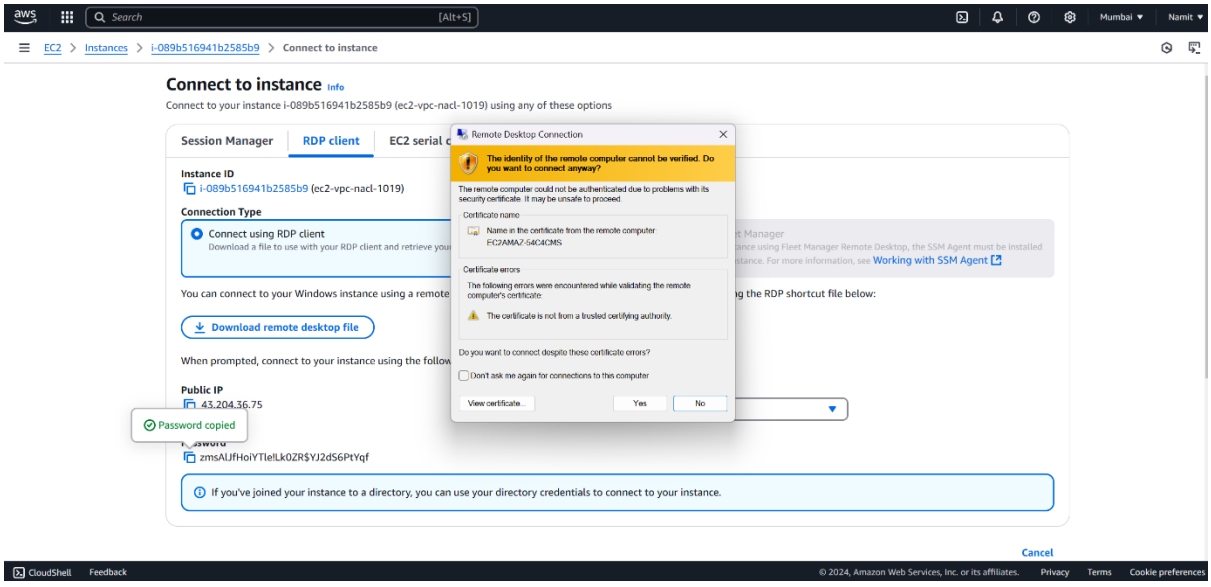
1. add inbound rules
    - RDP and custom tcp – range – 1024-65535
2.



- Now try to connect



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- We are able to connect to our EC2