Centurion UNIVERSITY
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School: ..... Campus: .....

Academic Year: ..... Subject Name: ..... Subject Code: .....

Semester: ..... Program: ..... Branch: ..... Specialization: .....

Date: .....

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiment: ICMP protocol using Inbound& Outbound in security group and NACL.

Step 1: Login into the AWS Management Console using username and password

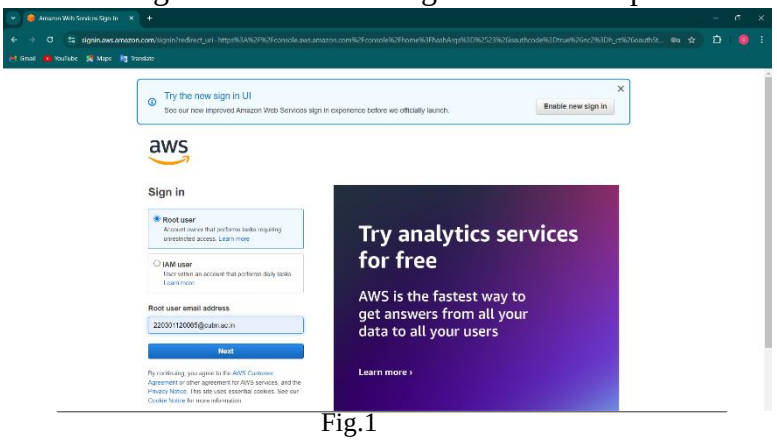


Fig.1

Step 2: Launch the instance and choose machine UBUNTU.

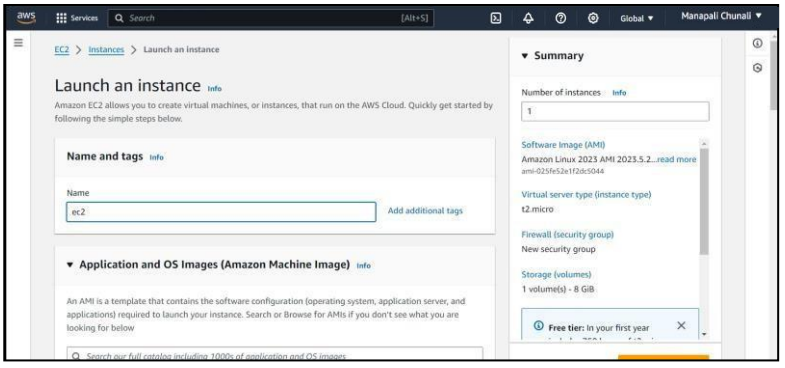


Fig.2

Step 3: Choose the keypair with .pem file and create instance by clicking create.

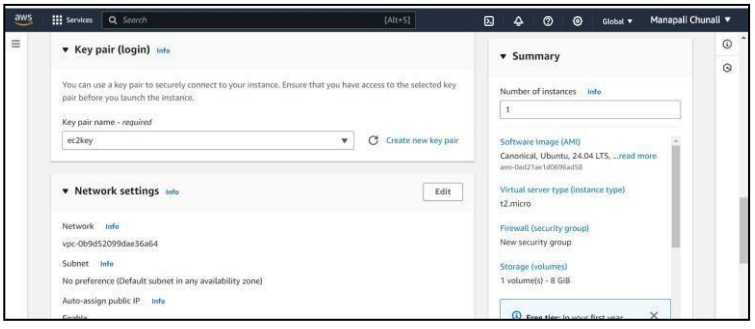


Fig.3

Step 4: Go to security group in EC2

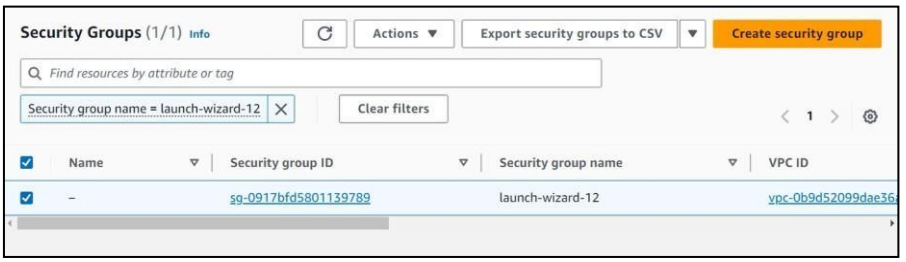


Fig.4

Step 5: Edit Inbound and source is MY IP.

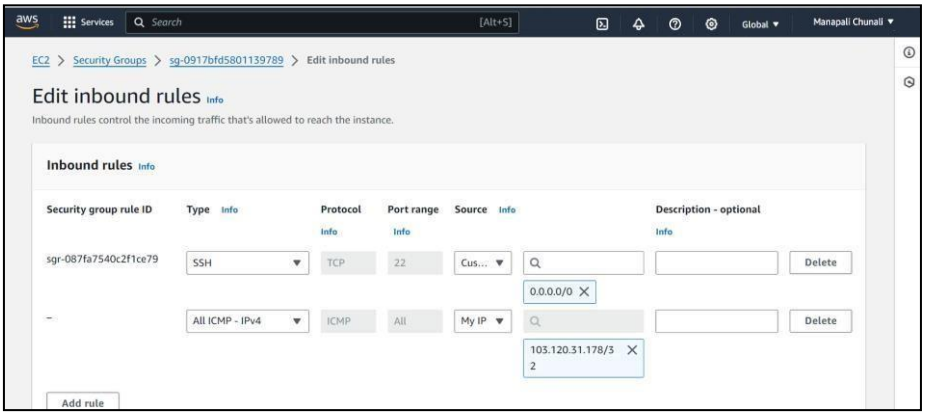


Fig.5

Step 6: ping the IP

```
C:\Users\manap> ping 103.120.31.178

Pinging 52.66.158.78 with 32 bytes of data:
Reply from 52.66.158.78: bytes=32 time=42ms TTL=51
Reply from 52.66.158.78: bytes=32 time=39ms TTL=51
Reply from 52.66.158.78: bytes=32 time=71ms TTL=51
Reply from 52.66.158.78: bytes=32 time=39ms TTL=51

Ping statistics for 52.66.158.78:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 39ms, Maximum = 71ms, Average = 47ms
```

Fig.6

Step 7: Edit Outbound Rules

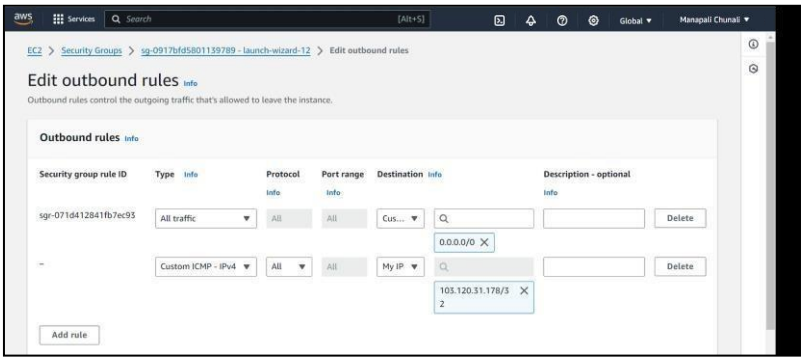


Fig.7

Step 8: Go Subnet level NACL.

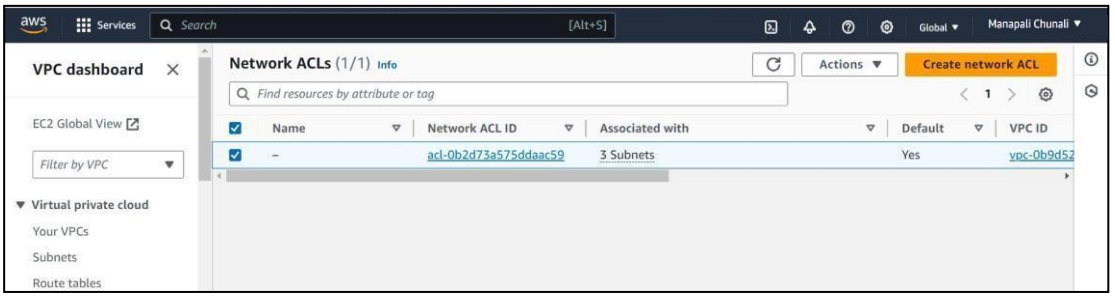


Fig.8

Step 9: Edit Inbound, all allow

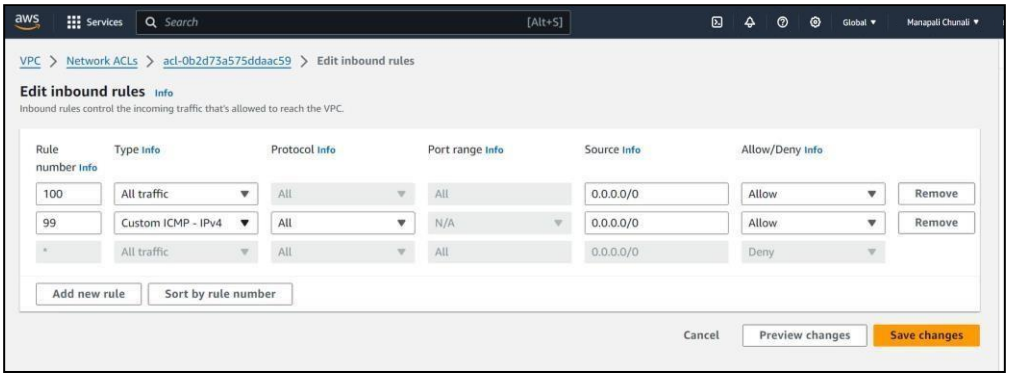


Fig.9

Step 10: ping again

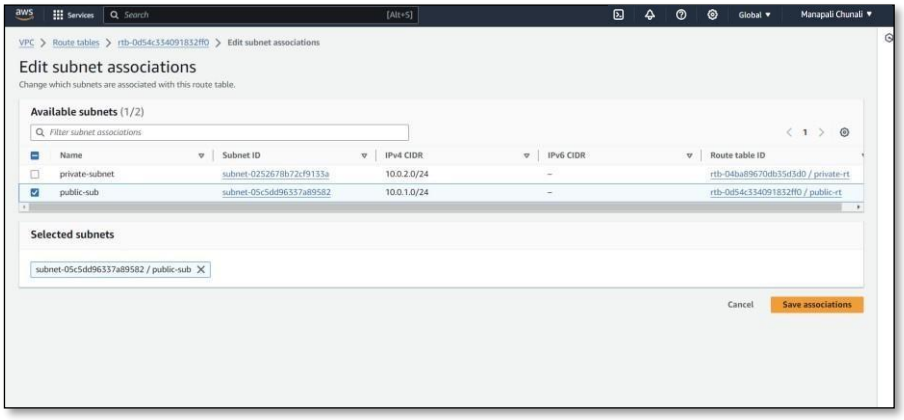
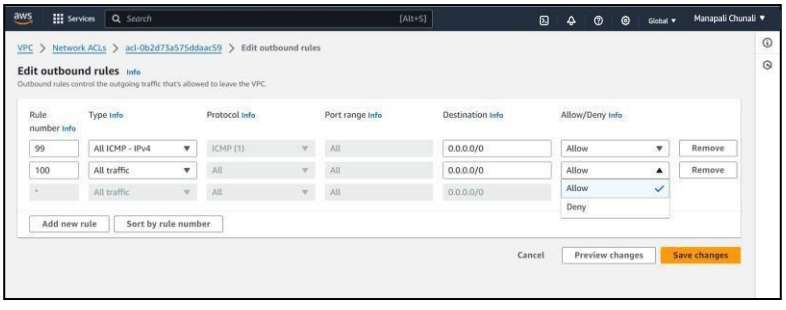


Fig.10

Step 11: Edit Outbound Rule



Step 12: ping the IP

```
C:\Users\manap> ping 103.120.31.178

Pinging 52.66.158.78 with 32 bytes of data:
Reply from 52.66.158.78: bytes=32 time=42ms TTL=51
Reply from 52.66.158.78: bytes=32 time=39ms TTL=51
Reply from 52.66.158.78: bytes=32 time=71ms TTL=51
Reply from 52.66.158.78: bytes=32 time=39ms TTL=51

Ping statistics for 52.66.158.78:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 39ms, Maximum = 71ms, Average = 47ms
```

ASSESSMENT

Rubrics	Full Marie	Maries Obtained	Remarles
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	**50**		

Signature of the Student:

Name:

Regn. No.:

Signature of the Faculty: