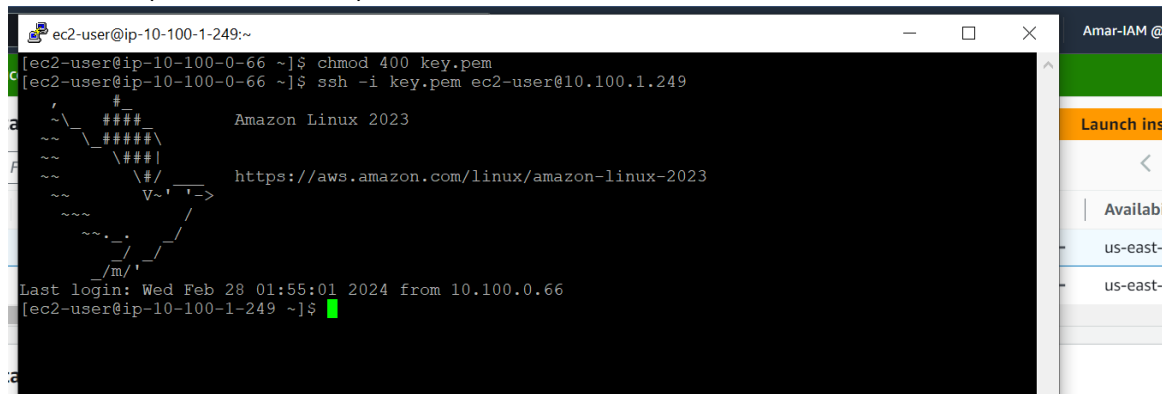


Exercise2

Accessing Private EC2 through Public EC2

1. Login to your IAM user
2. This exercise is an extension of Exercise1.
3. Create a private subnet
 - a. Give any name, choose your VPC, select any AZ, subnet CIDR accordingly (eg 10.100.1.0/24)
4. Create route table for this subnet
 - a. Give any name, choose your VPC
5. Associate the Route Table with this subnet
 - a. Select your route table, go to Subnet Association (the second tab), edit, choose your subnet
6. Launch EC2
 - a. Keep the default setting and make the following changes:
 - i. Use the same key pair
 - ii. Under Network Settings, select your VPC and the subnet
 - iii. Create SG: Select Custom for Source Type, your VPC CIDR (eg. 10.100.0.0/16) for Source
 - Add a SG rule for ping: *All ICMP for IPv4* for Type, Custom for Source type, your VPC CIDR for Source
7. Connect public EC2 over SSH
8. Enter command: vi key.pem (you can give any name but it should have .pem extension), press i to go to insert mode, copy paste all the .pem content from your PC to this file and save by pressing ESC and typing :wq
9. Change the file permissions: chmod 400 key.pem
10. Connect to the private EC2 by giving the command: ssh -i key.pem ec2-user@<private EC2's IP address>
11. Upload the screenshot that shows your **IAM user name** and the EC2 welcome page that has the two commands (chmod and ssh -i) as shown below



The screenshot shows a terminal window with the following commands and output:

```
ec2-user@ip-10-100-1-249:~  
[ec2-user@ip-10-100-0-66 ~]$ chmod 400 key.pem  
[ec2-user@ip-10-100-0-66 ~]$ ssh -i key.pem ec2-user@10.100.1.249  
Amazon Linux 2023  
https://aws.amazon.com/linux/amazon-linux-2023  
Last login: Wed Feb 28 01:55:01 2024 from 10.100.0.66  
[ec2-user@ip-10-100-1-249 ~]$
```

On the right side of the screenshot, the AWS IAM console is visible, showing the IAM user name "Amar-IAM @".

12. Can you ping google.com from your private EC2 instance?
13. Terminate both of your EC2 instances

Sources:

<https://www.awswithchetan.com/>