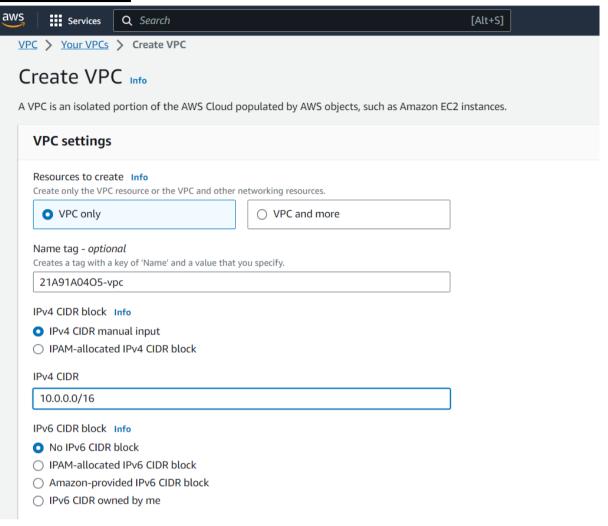
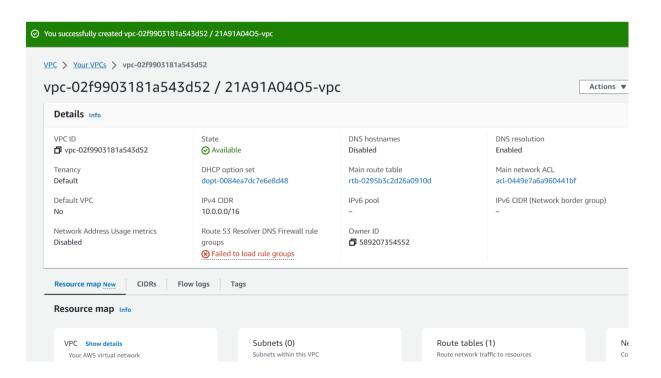
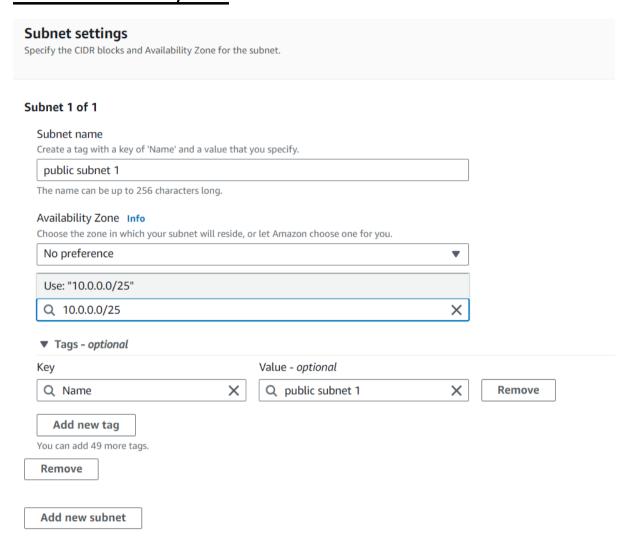
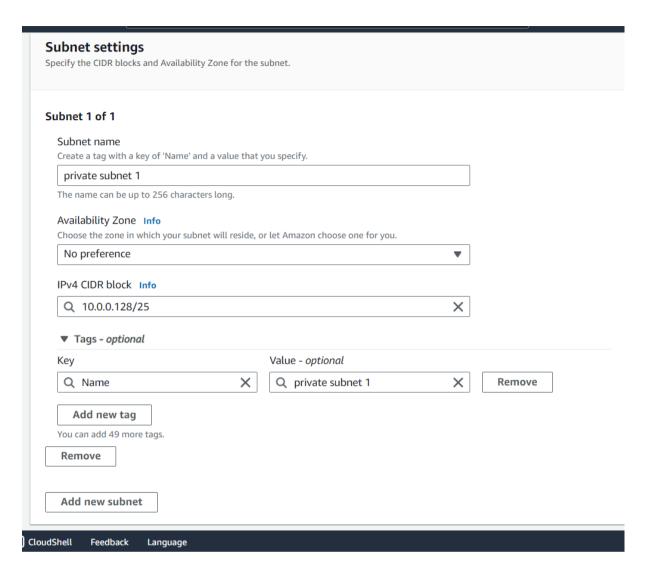
VPC creation:



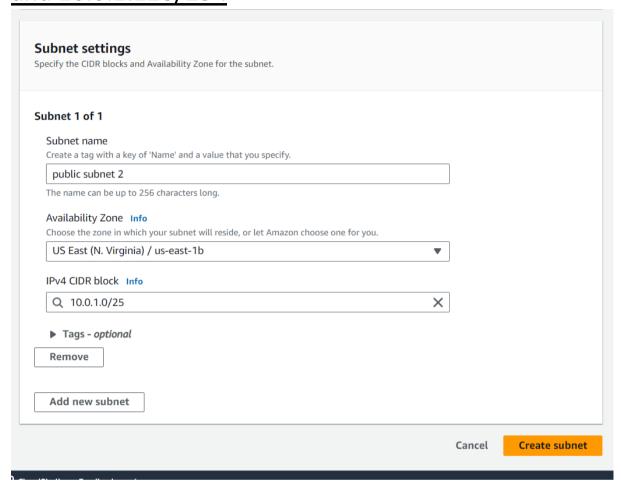


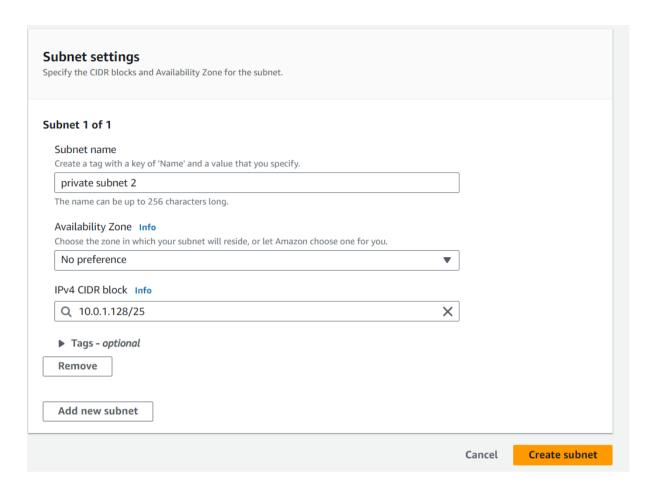
Create subnets for Availability Zone A in 10.0.0.0/25 and 10.0.0.128/25 :



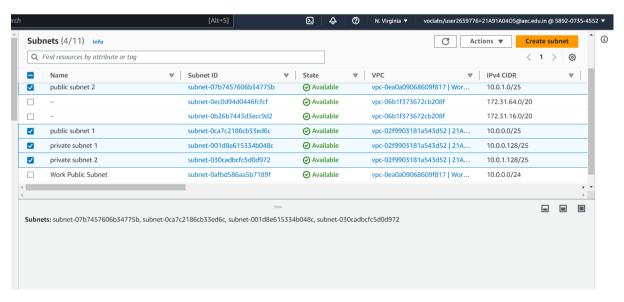


Create subnets for Availability Zone B in 10.0.1.0/25 and 10.0.1.128/25 :





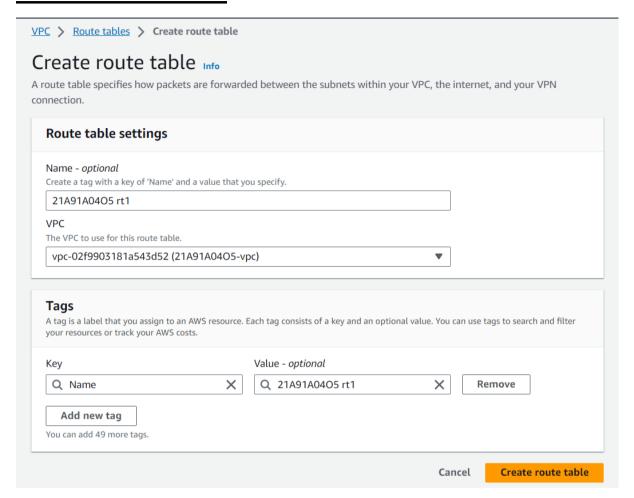
Four subnets created



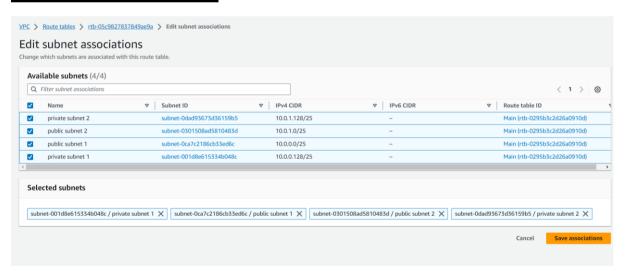
Make private subnets to public :

VPC > Subnets > subnet-0ca7c2186cb33ed6c > Edit subnet settings		
Edi	t subnet settings Info	
Su	ibnet	
	bnet ID subnet-0ca7c2186cb33ed6c	Name public subnet 1
	Auto-assign IP settings Info Enable the auto-assign IP settings to automatically request a public IPv4 or IPv6 address for a new network interface in this subnet.	
	Enable auto-assign public IPv4 address Info Enable auto-assign customer-owned IPv4 address Info Option disabled because no customer owned pools found.	
	Resource-based name (RBN) settings Info Specify the hostname type for EC2 instances in this subnet and optional RBN DNS query settings.	
	Enable resource name DNS A record on launch Info	
-	Enable resource name DNS AAAA record on launch Info	
112		
dit d	subnet settings	
	subnet settings Info	
dit s	_	
Subn e	net	Name public subnet 2
Subner Subner Subner	net t ID	public subnet 2
Subnet Su	t ID bnet-07b7457606b34775b -assign IP settings Info	public subnet 2
Subnet Su	t ID bnet-07b7457606b34775b -assign IP settings Info the auto-assign IP settings to automatically request a public IP	public subnet 2
Subnet Su	ret t ID bnet-07b7457606b34775b -assign IP settings Info the auto-assign IP settings to automatically request a public IP able auto-assign public IPv4 address Info able auto-assign customer-owned IPv4 address Info	public subnet 2 v4 or IPv6 address for a new network interface in this subnet.
Subnet Su	ret t ID bnet-07b7457606b34775b -assign IP settings Info the auto-assign IP settings to automatically request a public IP able auto-assign public IPv4 address Info able auto-assign customer-owned IPv4 address Info tion disabled because no customer owned pools found. urce-based name (RBN) settings Info	public subnet 2 v4 or IPv6 address for a new network interface in this subnet.
Subnet Su	ret t ID bnet-07b7457606b34775b -assign IP settings Info the auto-assign IP settings to automatically request a public IP able auto-assign public IPv4 address Info able auto-assign customer-owned IPv4 address Info tion disabled because no customer owned pools found. urce-based name (RBN) settings Info the hostname type for EC2 instances in this subnet and option	public subnet 2 v4 or IPv6 address for a new network interface in this subnet.
Subnet Su	rest t ID bnet-07b7457606b34775b -assign IP settings Info the auto-assign IP settings to automatically request a public IP able auto-assign public IPv4 address Info able auto-assign customer-owned IPv4 address Info tion disabled because no customer owned pools found. urce-based name (RBN) settings Info the hostname type for EC2 instances in this subnet and option able resource name DNS A record on launch Info	public subnet 2 v4 or IPv6 address for a new network interface in this subnet.

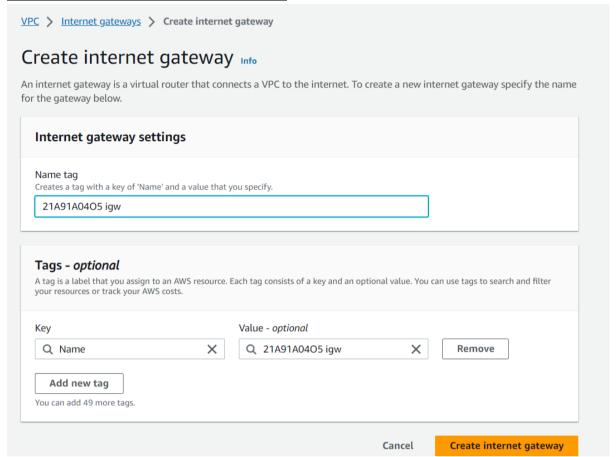
Create route table:



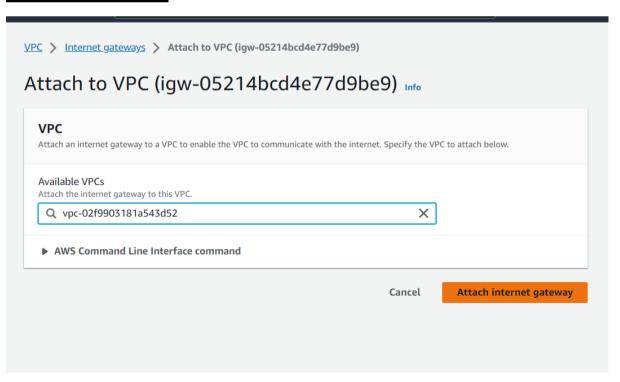
Associate subnets:



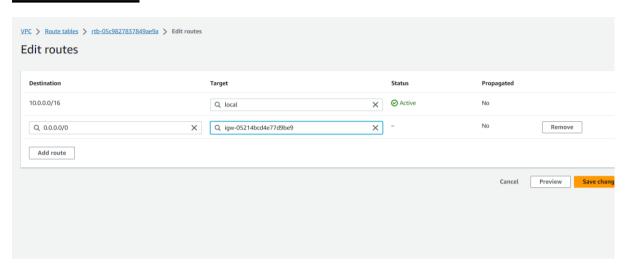
Create Internet Gateway:



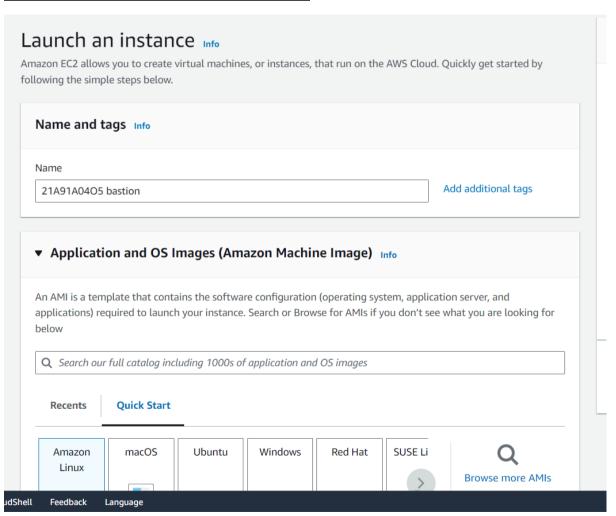
Attach to VPC:



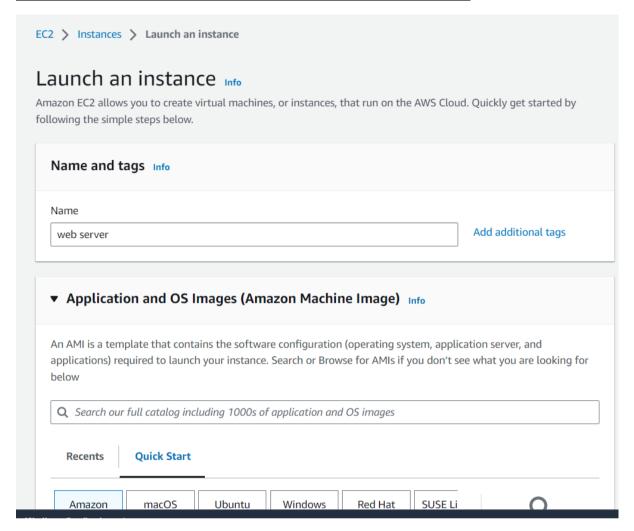
Add Internet Gateway to route to enable internet connection:



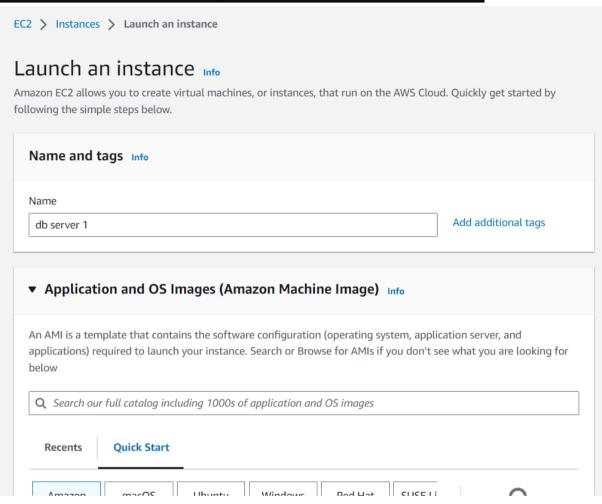
Launch bastion host in AZ A:



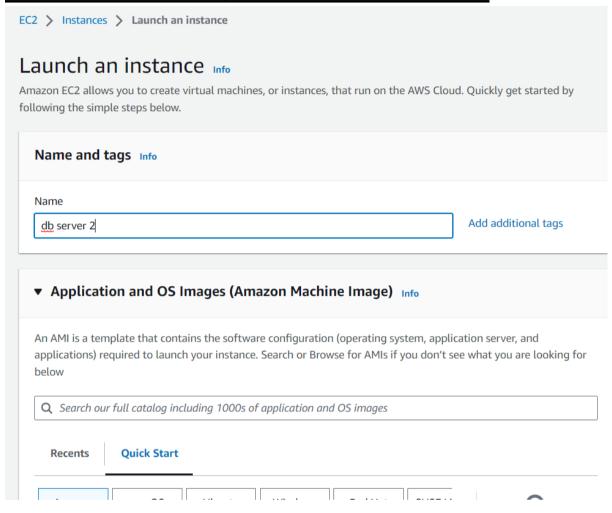
Launch instance for public server in AZ B:



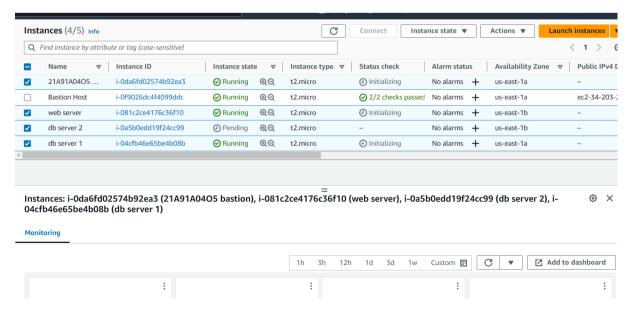
Launch instance for private server 1 in AZ A:



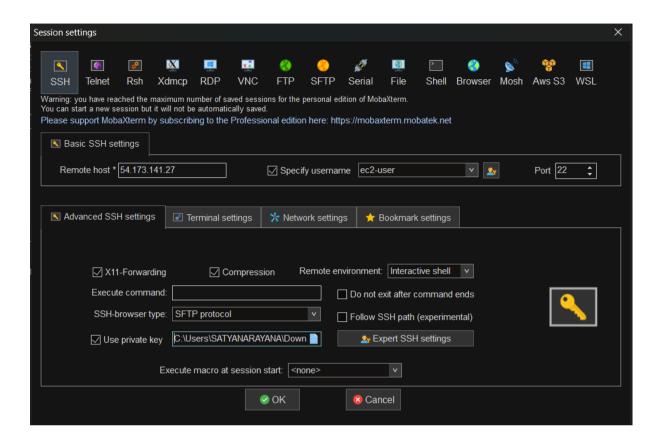
Launch instance for private server 2 in AZ B:



All instances are created



Connect bastion host:



```
**Solition View Split MultiExec Tunnelling Packages Settings Help

**MobaXterm Personal Edition v23.2 *

(SSH client, X server and network tools)

**SSH session to ec2-user@54.173.141.27

**Direct SSH : /

**SSH compression : /

**SSH-browser : /

**X11-forwarding : x (disabled or not supported by server)

**For more info, ctrl+click on help or visit our website.

**Amazon Linux 2023

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**Amazon Linux 2023

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**Amazon Linux 2023
```

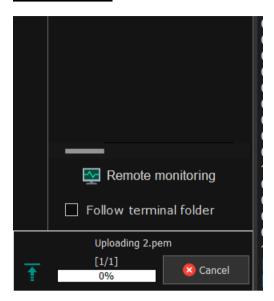
It is getting pinged so it is a public server :

```
2. 54.173.141.27 (ec2-user)
                                                                         (SSH client, X server and network tools)
                       ► SSH session to ec2-user@54.173.141.27
                              • Direct SSH
                              • SSH compression :

    SSH-browser

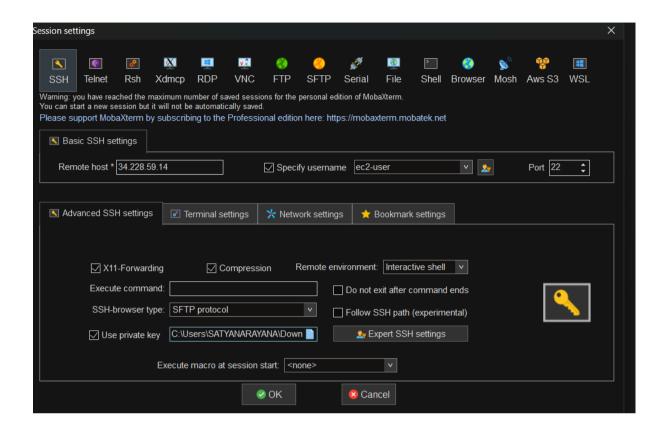
                              • X11-forwarding : x (disabled or not supported by server)
                       ► For more info, ctrl+click on help or visit our website.
                              ####
                                                                            Amazon Linux 2023
                             #####\
                                  \###|
                                                                            https://aws.amazon.com/linux/amazon-linux-2023
__/m/'
[ec2-user@ip-10-0-0-28 ~]$ ping google.com
PING google.com (142.251.16.139) 56(84) bytes of data.
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=1 ttl=50 time=10.9 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=2 ttl=50 time=1.83 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=3 ttl=50 time=1.79 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=4 ttl=50 time=1.88 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=5 ttl=50 time=1.87 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=6 ttl=50 time=1.84 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=6 ttl=50 time=1.90 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=6 ttl=50 time=1.84 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=7 ttl=50 time=1.90 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=8 ttl=50 time=1.84 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=9 ttl=50 time=1.91 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=10 ttl=50 time=1.92 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=11 ttl=50 time=1.82 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=12 ttl=50 time=1.84 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=13 ttl=50 time=1.81 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=14 ttl=50 time=1.85 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=15 ttl=50 time=1.85 ms
64 bytes from bl-in-f139.1e100.net (142.251.16.139): icmp_seq=16 ttl=50 time=1.81 ms
   1]+ Stopped
                                                                                                            ping google.com
  [ec2-user@ip-10-0-0-28 ~]$
```

To connect the private server from bastion host upload key pair :



Private server is connected and it is not pinging because it is a private server

Connect to public server in AZ B:



It is getting pinged so it is a public server

```
2. 54.173.141.27 (ec2-user)
                                                                                                                       \times \\(\pi\)
                                                                     4. 34.228.59.14 (ec2-user)
                                          • MobaXterm Personal Edition v23.2 •
                                      (SSH client, X server and network tools)
            ➤ SSH session to ec2-user@34.228.59.14
                • Direct SSH
                • SSH compression :

    SSH-browser

                • X11-forwarding : x (disabled or not supported by server)
            ➤ For more info, ctrl+click on help or visit our website.
                ####
                                        Amazon Linux 2023
                                        https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-10-0-1-73 ~]$ ping google.com
PING google.com (172.253.122.100) 56(84) bytes of data.
64 bytes from bh-in-f100.1e100.net (172.253.122.100): icmp_seq=1 ttl=102 time=1.97 ms
64 bytes from bh-in-f100.1e100.net (172.253.122.100): icmp_seq=2 ttl=102 time=2.02 ms
64 bytes from bh-in-f100.1e100.net (172.253.122.100): icmp_seq=3 ttl=102 time=1.95 ms
64 bytes from bh-in-f100.1e100.net (172.253.122.100): icmp_seq=4 ttl=102 time=1.94 ms
64 bytes from bh-in-f100.1e100.net (172.253.122.100): icmp_seq=5 ttl=102 time=1.97 ms
 [1]+ Stopped
                                                         ping google.com
 [ec2-user@ip-10-0-1-73 ~]$
```