 8 . 8 . 8 .8 = 32 bits

Default gateway : one ip

IP Address : 192.168.56.1

Subnet Mask : 255.255.255.0

8 . 8 .8 . 0 = 24 bits

NetWork ID : 192.168.56

HOst ID : 1

How many ips : 2^( total bits - occupied bits) -1 = ips

2^(32-24) -1 =255ips

8 . 8 . 8 .8 = 32 bits

Default gateway : one ip

IP Address : 192.168.56.1

Subnet Mask : 255.255.0.0

8 . 8 .0. 0 = 16 bits

NetWork ID : 192.168

HOst ID : 56. 1

How many ips : 2^( total bits - occupied bits) -1 = ips

2^(32-16) -1 =65535ips

I want only 511 ips

11111111 . 11111111 . 11111111 .11111111 = 32 bits

Default gateway : one ip

IP Address : 192.168.56.1

Subnet Mask : 255.255.254.0

11111111 . 11111111 .11111110 . 00000000/23 bits

NetWork ID : 192.168.56

HOst ID : 1

How many ips : 2^( total bits - occupied bits) -1 = ips

2^(32-23) -1 =511ips

How many NW’s: 2^1 =2 nws

11111111 . 11111111 . 11111111 .11111111 = 32 bits

Default gateway : one ip

IP Address : 192.168.56.1

Subnet Mask : 255.255.253.0

11111111 . 11111111 .11111100 . 00000000/22 bits

NetWork ID : 192.168.56

HOst ID : 1

How many ips : 2^( total bits - occupied bits) -1 = ips

2^(32-22) -1 =1023ips

How many NW’s: 2^2 =4 nws

What is SubNet?



1. Create VPC
2. Create IGW
3. Attach IGW into my vpc
4. Create public subnet1
5. Create private subnet2
6. Create Public Router1
7. Create Private Router2
8. Public Subnet1 Associated with Public Router1
9. Private Subnet2 Associated with Private Router2
10. Rout IGW with public Router1
11. Create a public instance in public subnet1
12. Then trying to login into public instance.