D: 17/07/2020

Jump Server / Bastian host : A dedicated ec2 instance runs in CustomVPC public subnets, to get connected to private subnet ec2 instance. Most of the times we use windows ec2 instance for app/client flexibility.

NAT Gateway/Instance: Designed to provide internet for our Private SUbnet ec2 instances. This NAT Gateway/Instance, always runs in CustomVPC public Subnet.

NATGATEWAY: NO FREE TIER ELIGIBILITY

Navigate to "NAT Gateway" --> Create NAT Gateway, Generate an EIP, and choose CustomVPC "Public Subnet"... CLick on create.

Navigate to "Route" --> Choose the "Private Route" --> Add a route 0.0.0.0/0 --> NATGateway.

NAT Instance: Free Tier

--> Navigate to community AMI, Search for NAT, Choose amazon LinuxAMI, Launch the instance in CustomVPCs, Public SUbnet.. (http, https is opened in SG)

--> Choose the NAT Instance, Goto Network Settings, Disable Source/destination check.

Navigate to "Route" --> Choose the "Private Route" --> Add a route 0.0.0.0/0 --> Choose Instance, Select "NAT Instance".

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Enable Logs on VPC :

--> VPC = Flow Logs..

--> We can enable flowlogs at VPC level , / Subnet levels also.

--> We can store/send the logs to

--> S3 bucket : Get ARN of s3 bucket and store logs in s3 bucket.

--> Cloudwatch Logs : Navigate to CW, Create a LogGroup.

Choose the created loggroup, Create an IAM role "Flowlogsrole"

Task : COnfigure SGs of Jump and Private subnets as we diccussed.

Task 2 : Provide internet to your private subnet ec2 instance, using NAT Gateway/Instance.

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