AWS LAB

Create my Virtual Private Cloud (VPC) to produce customized network.

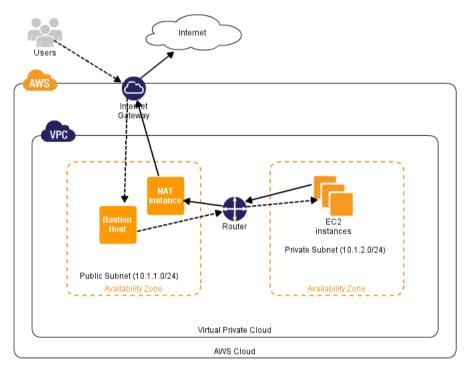
VPC will contain a Public Subnet and a Private Subnet, each subnet with 1 EC2 instance

Purpose: pink to google.com from the EC2 located in the Private Subnet

For this, a NAT instance configured in the public subnet is needed.

Private subnet traffic should be routed through the NAT instance for Internet access.

The IGW allows communication between instances in my VPC and Internet

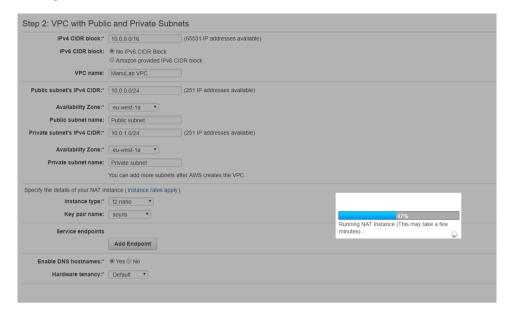


Same figure with only one Availabilty zone

AWS Console

VPC -> Start VPC Wizard

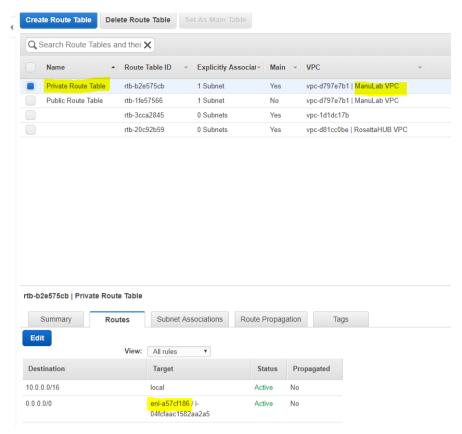
Select VPC Configuration: VPC with Public and Private Subnets, in the same ZA



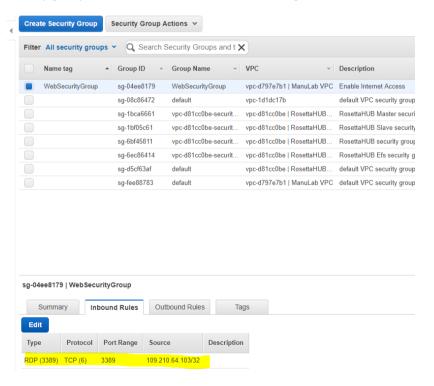
At this step, we have Manu_VPC Lab created with the 2 Subnets: one Public, one Private



• Route Table configuration



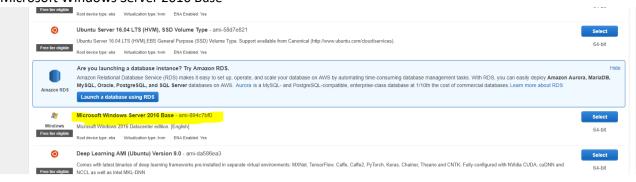
• Create my VPC secutity group, and set IP address I am connecting from:



• Launch Instances

Service menu -> EC2 -> Launch Instance

Microsoft Windows Server 2016 Base



Choose T2.micro type

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations or resources for your applications. Learn more about instance types and how they can meet your computing needs.



1st Instance in the Public Subnet

Step 3: Configure Instance Details

ire the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the Number of instances (i) Purchasing option (i) Request Spot instances vpc-d797<mark>e7b1 | ManuLab VPC</mark> Network (i) ▼ C Create new VPC subnet-bd57e6db | Public subnet | eu-west-1a Create new subnet Subnet (i) 250 IP Addresses available Auto-assign Public IP (i) Use subnet setting (Disable) Placement group (1) Add instance to placement group. Domain join directory ▼ C Create new directory IAM role (i) ▼ C Create new IAM role Shutdown hehavior Ston

Select existing security group

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and HTTP and HTTPS ports. You can create a new security group or select from an existing one below. Learn more about Amazon EC2 security groups.

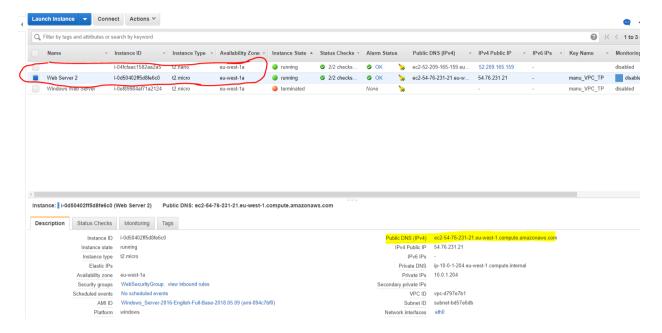
Assign a security group: Ocreate a new security group

Select an existing security group



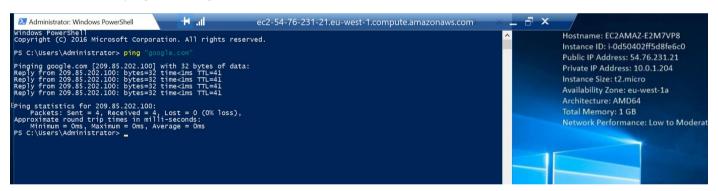
I have now my 2 instances, inside my public Subnet:

- Windows Web Server , created by nyself (Web Server 2)
- Nat Instance, created automatically by Wizard VPC



Connect to the Instance Web Server 2 (public one)

Just to check if the ping is working



• Launch instance in Private Subnet

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of I Number of instances (i) Launch into Auto Scaling Group (1) Purchasing option (i) Request Spot instances Network (i) ▼ C Create new VPC vpc-d797e7b1 | ManuLab VPC subnet-6950e10f | Private subnet | eu-west-1a Create new subnet Subnet (i) 251 IP Addresses available Auto-assign Public IP (i) Placement group (i) Add instance to placement group. Domain join directory (i) ▼ C Create new directory None IAM role (i) None ▼ C Create new IAM role

Not able to connect to my "private" instance !!!

