# **AWS LAB**

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

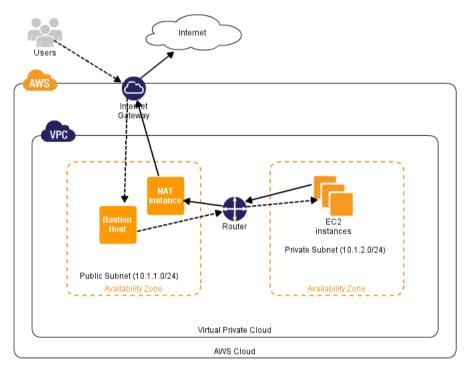
VPC will contain a Public Subnet and a Private Subnet, each subnet with 1 EC2 instance

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

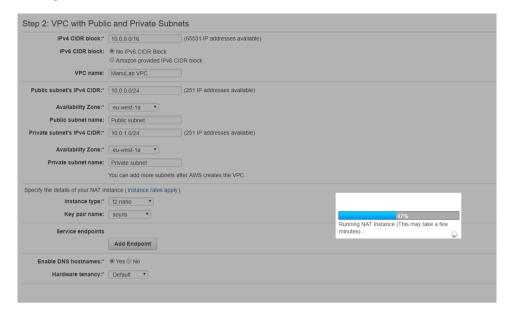


Same figure with only one Availabilty zone

# **AWS Console**

VPC -> Start VPC Wizard

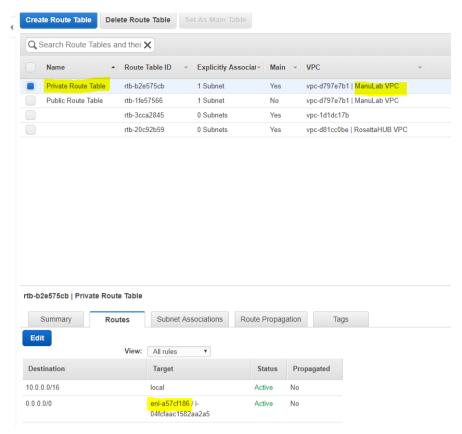
Select VPC Configuration: VPC with Public and Private Subnets, in the same ZA



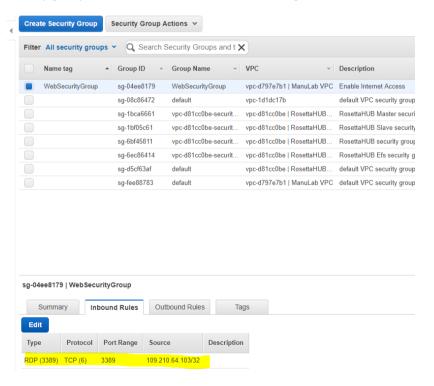
At this step, we have Manu\_VPC Lab created with the 2 Subnets: one Public, one Private



• Route Table configuration



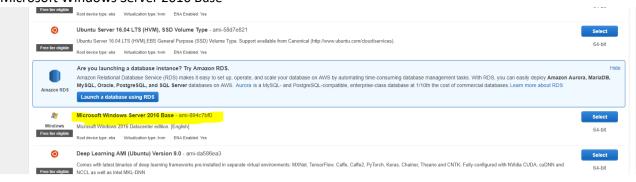
• Create my VPC secutity group, and set IP address I am connecting from:



### • 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.

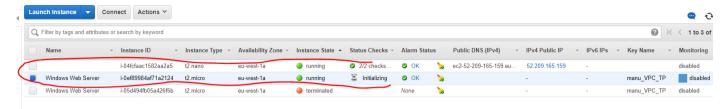
Assign a security group: Ocreate a new security group

Select an existing security group



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

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



### • Try to connect to the Instance

I am not able and I do not understand ...

I check the route table, security group ..., where my IP address from where I am connecting is set ...

# No idea what' wrong

