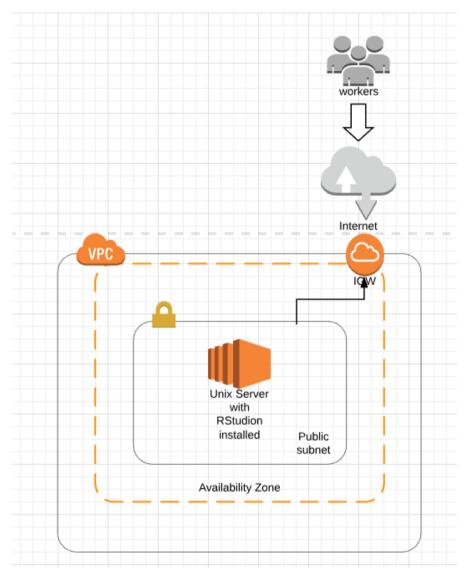
AWS: RStudio Server

Goal: Setup RStudio server

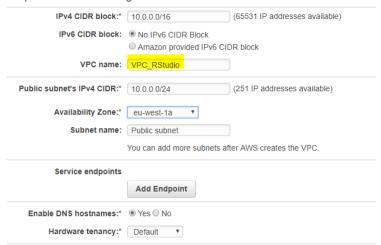


Step 1: Create a VPC with a Public Subnet

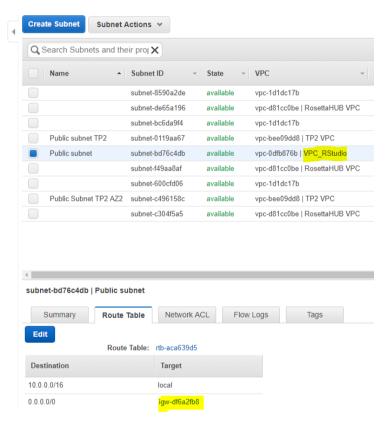
• VPC -> Start VPC Wizard

Select VPC Configuration: VPC with a Single Public Subnet

Step 2: VPC with a Single Public Subnet



Check that the Public Subnet is routed to the IGW

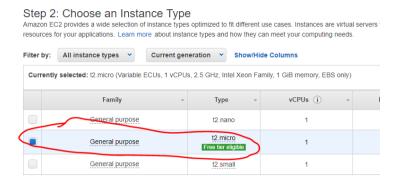


Step 2: Choose an AMI and an Instance

- Choose Amazon Linux AMI (no additional cost)



- Choose Instance Type t2.micro (enough for this demo)



Step3: Configure the Instance Details

Add in the Advanced Details pane, in "user data" section, following commands in order to download and install RStudio server.

This script also adds a user and password that you use for logging in later to RStudio.

Source: https://aws.amazon.com/fr/blogs/big-data/running-r-on-aws/

```
#!/bin/bash
#install R
yum install -y R

#install RStudio-Server 1.0.153 (2017-07-20)
wget https://download2.rstudio.org/rstudio-server-rhel-1.0.153-x86_64.rpm
yum install -y --nogpgcheck rstudio-server-rhel-1.0.153-x86_64.rpm
rm rstudio-server-rhel-1.0.153-x86_64.rpm

#add user(s)
sudo useradd "username"
echo "username" | sudo chpasswd
```

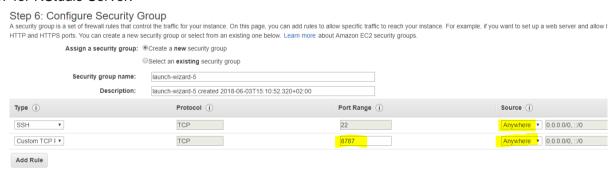
And configure correctly the other inputs, mainly "Network", "Subnet" and "Auto-assign Public IP" as picture below:

Step 3: Configure Instance Details Network (i) vpc-0dfb876b | VPC_RStudio C Create new VPC subnet-bd76c4db | Public subnet | eu-west-1a Subnet (i) Create new subnet 251 IP Addresses available Enable Auto-assign Public IP (i) Placement group (i) Add instance to placement group IAM role (i) ▼ C Create new IAM role Stop Shutdown behavior (i) Enable termination protection (i) Protect against accidental termination Monitoring (i) ☐ Enable CloudWatch detailed monitoring Additional charges apply. Shared - Run a shared hardware instance Tenancy (i) Additional charges will apply for dedicated tenancy. T2 Unlimited (i) ■ Enable Additional charges may apply ▼ Network interfaces ① Device Network Interface Subnet Primary IP Secondary IP addresses ΙΡν New network interface ▼ subnet-bd76c4dt ▼ Auto-assign Add IP Add Device dvanced Details User data (j) As text ○ As file □ Input is already base64 encoded yum install -y --nogpgcheck rstudio-server-rhel-1.0.153-x86_64.rpm rm rstudio-server-rhel-1.0.153-x86_64.rpm #add user(s) sudo useradd soyris

Configure Security Group

Configure the Security Group (=Inbound Rule), which acts as a virtual firewall that controls the traffic for the EC2 instance. For this R-based analysis environment, you have to open port 8787 for RStudio Server.

ho sovris:mvPássword | sudo chpasswd



- Select an existing key pair or create a new key pair
- View Instances

Time to create instance and setup RStudio could take few minutes.

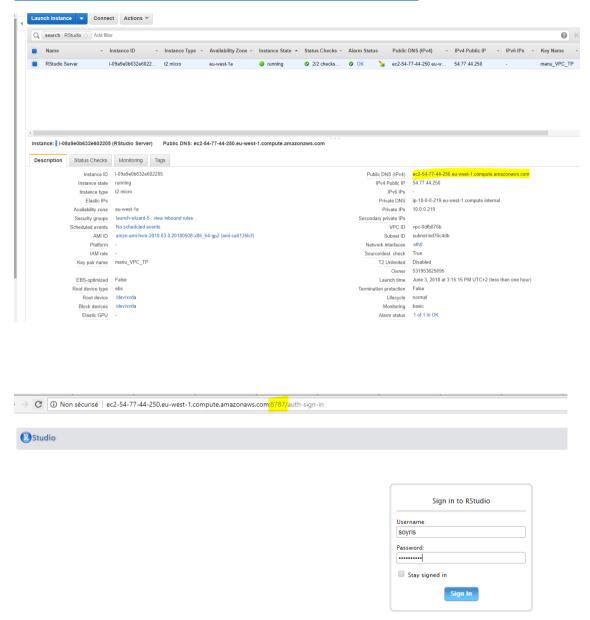
Wait ~5minutes, before to connect.

Step 3: Connect to RStudio Server

Copy the Public DNS IP and paste it to a Web browser, adding port 8787.

The URL looks like:

http://ec2-54-77-44-250.eu-west-1.compute.amazonaws.com:8787



Here we are:

