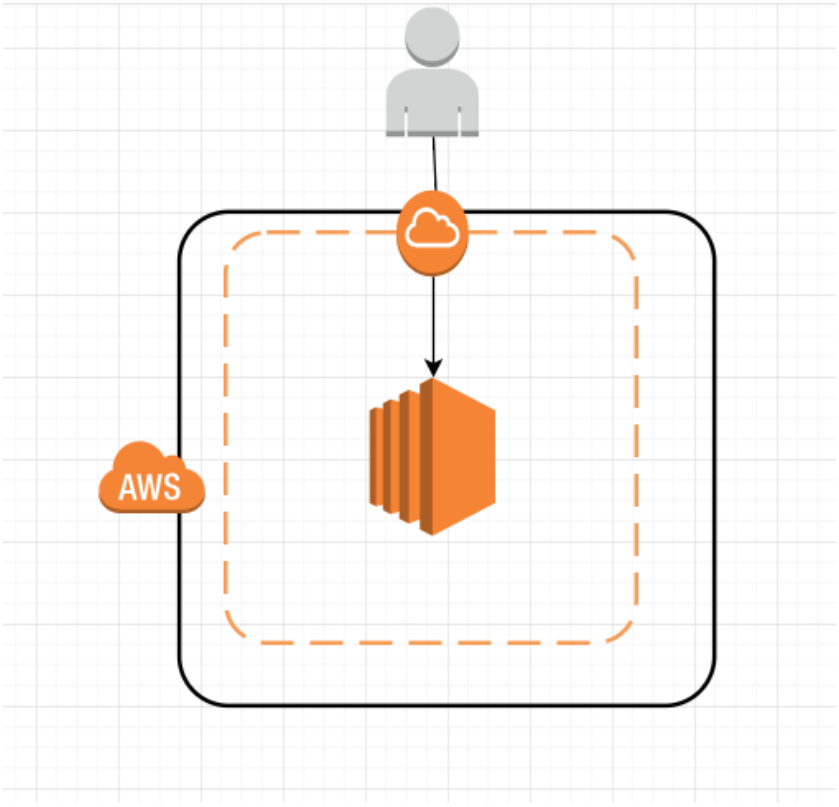
Running R on AWS

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



EC2 on Linux with Rstudio launched

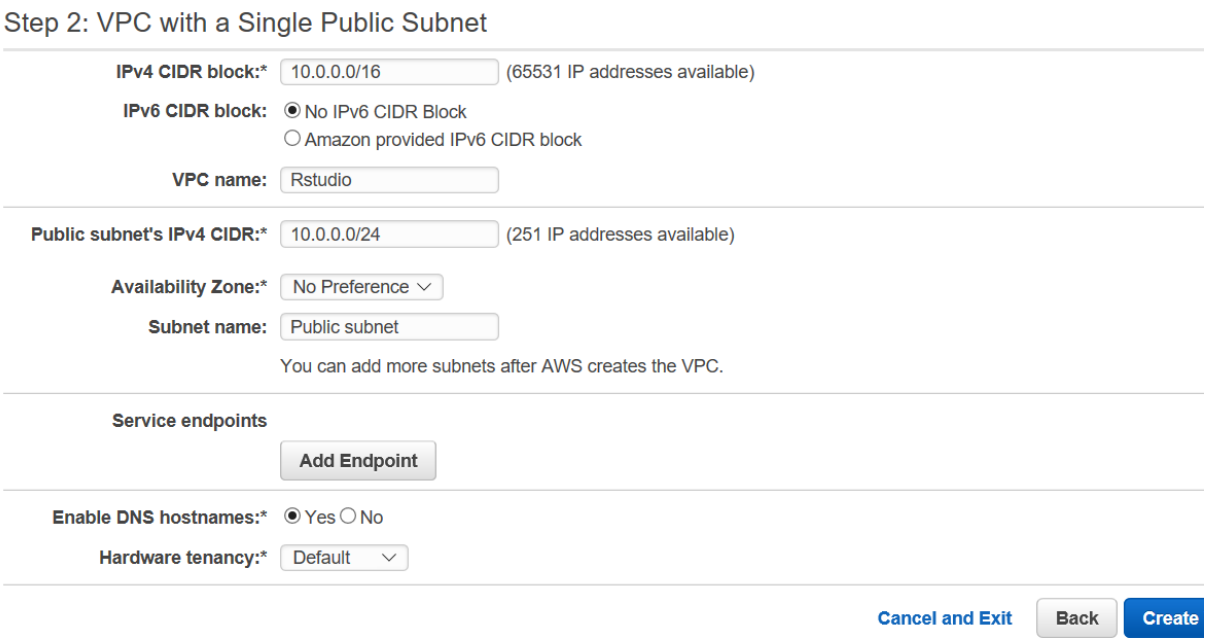
TASK 1 VPC Creation

1 In the **Services** console select **VPC Start VPC WIZARD**

Select : **VPC with a Single Public Subnet**

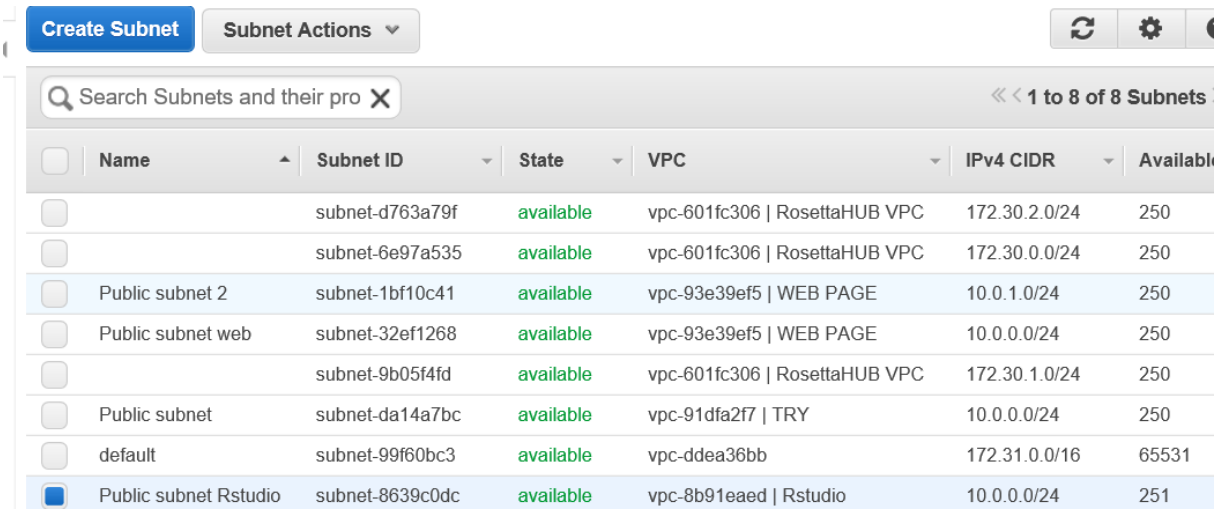
Click **Select**

Change the VPC name aith Rstudio

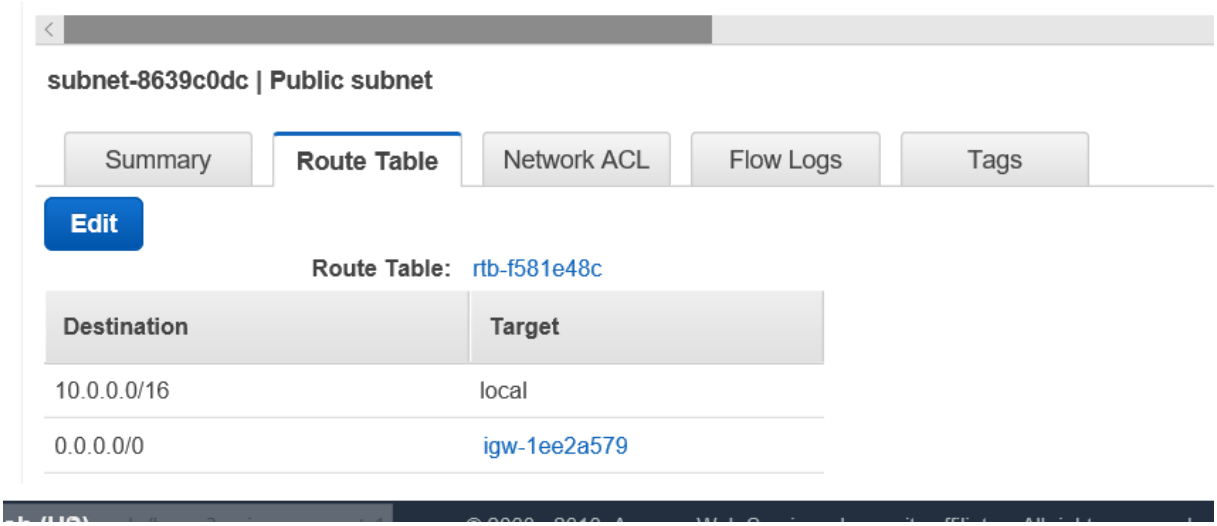


Click **OK**

Check the route table of the public subnet Rstudio (modify the name by clicking on the Name):

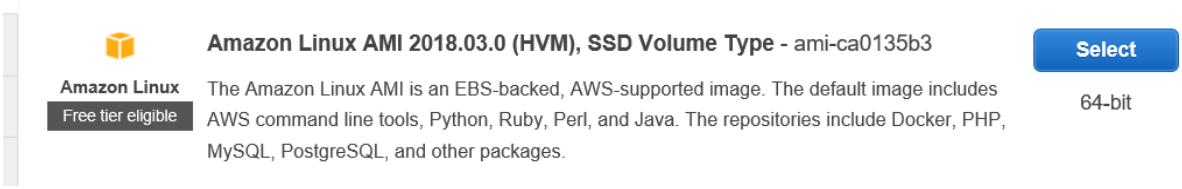


Name	Subnet ID	State	VPC	IPv4 CIDR	Available
	subnet-d763a79f	available	vpc-601fc306 | RosettaHUB VPC	172.30.2.0/24	250
	subnet-6e97a535	available	vpc-601fc306 | RosettaHUB VPC	172.30.0.0/24	250
Public subnet 2	subnet-1bf10c41	available	vpc-93e39ef5 | WEB PAGE	10.0.1.0/24	250
Public subnet web	subnet-32ef1268	available	vpc-93e39ef5 | WEB PAGE	10.0.0.0/24	250
	subnet-9b05f4fd	available	vpc-601fc306 | RosettaHUB VPC	172.30.1.0/24	250
Public subnet	subnet-da14a7bc	available	vpc-91dfa2f7 | TRY	10.0.0.0/24	250
default	subnet-99f60bc3	available	vpc-ddea36bb	172.31.0.0/16	65531
Public subnet Rstudio	subnet-8639c0dc	available	vpc-8b91eaed | Rstudio	10.0.0.0/24	251

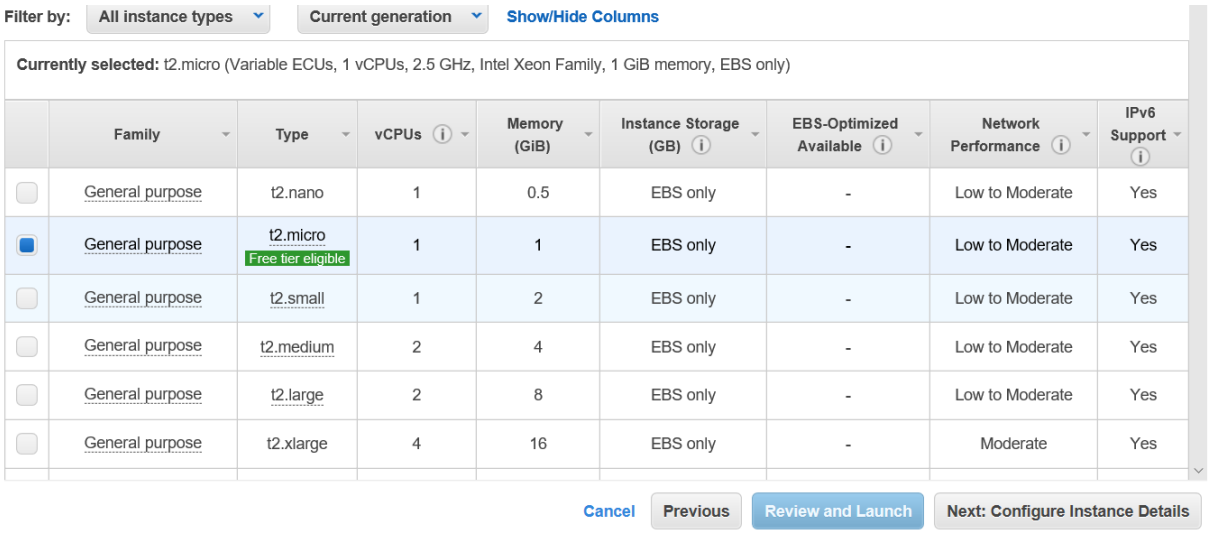


Task 2 : lauch the EC2 instance

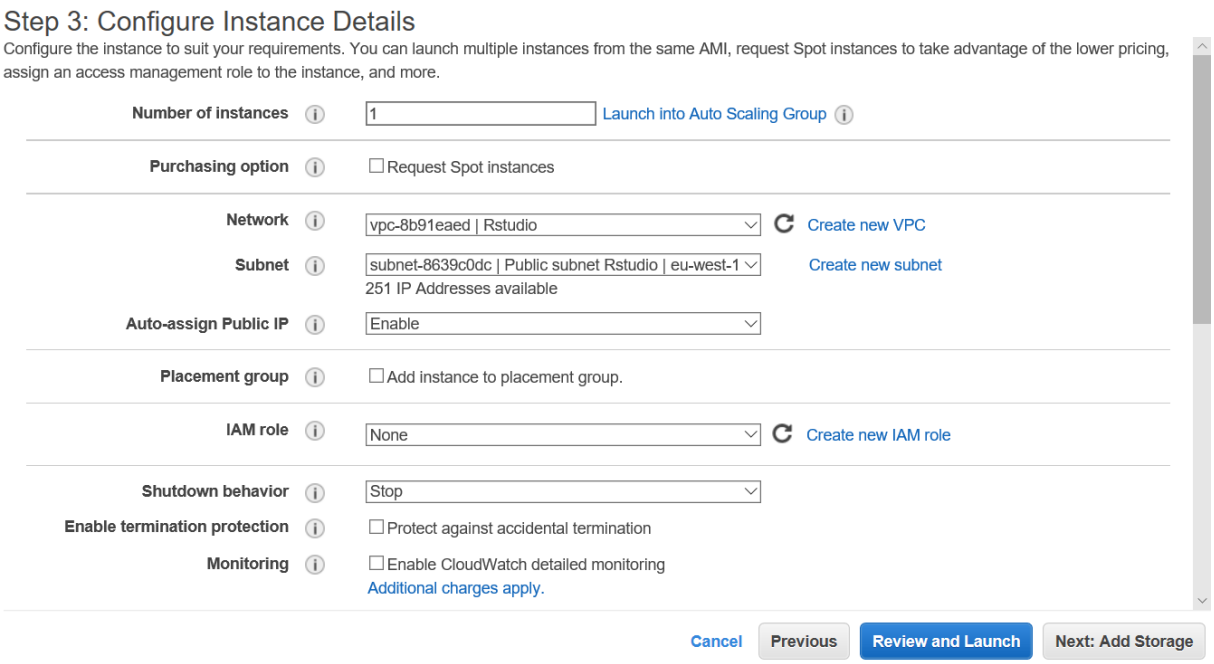
1/ Go to **Services** console and select **EC2** , on left pane select **instance** then **Launch Instance.**



Select the Amazon Linux and then select t2.micro.



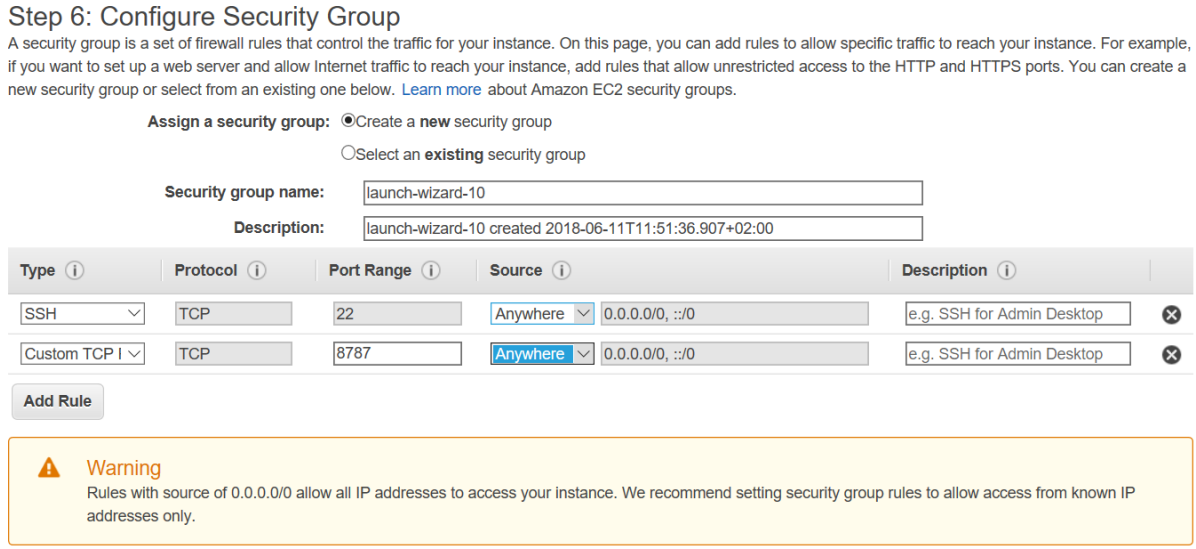
2/ Select the VPC as **Rstudio** and auto assign to **Enable**.



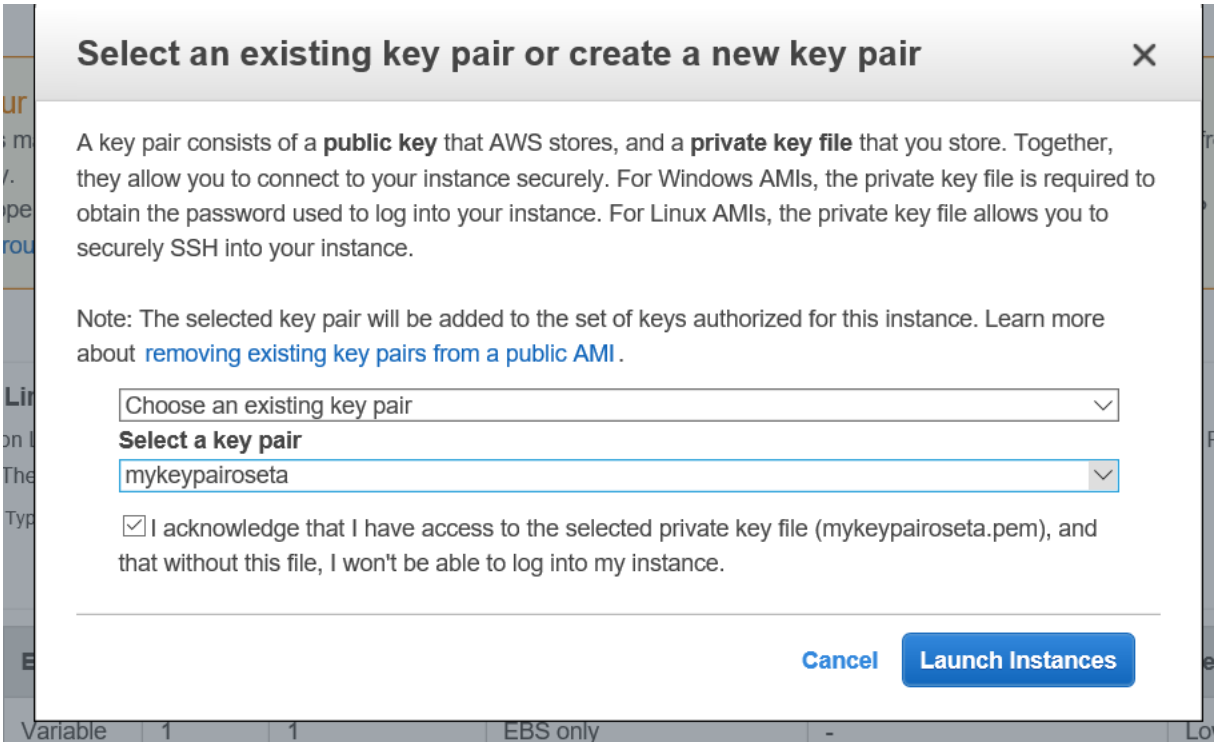
3/ Extend the extend detail and fill it with following line

```
#!/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

#install shiny and shiny-server (2017-08-25)
R -e "install.packages('shiny', repos='http://cran.rstudio.com/')"
wget https://download3.rstudio.org/centos5.9/x86_64/shiny-server-1.5.4.869-
rh5-x86_64.rpm
yum install -y --nogpgcheck shiny-server-1.5.4.869-rh5-x86_64.rpm
rm shiny-server-1.5.4.869-rh5-x86_64.rpm

#add user(s)
useradd username
echo username:password | chpasswd
```

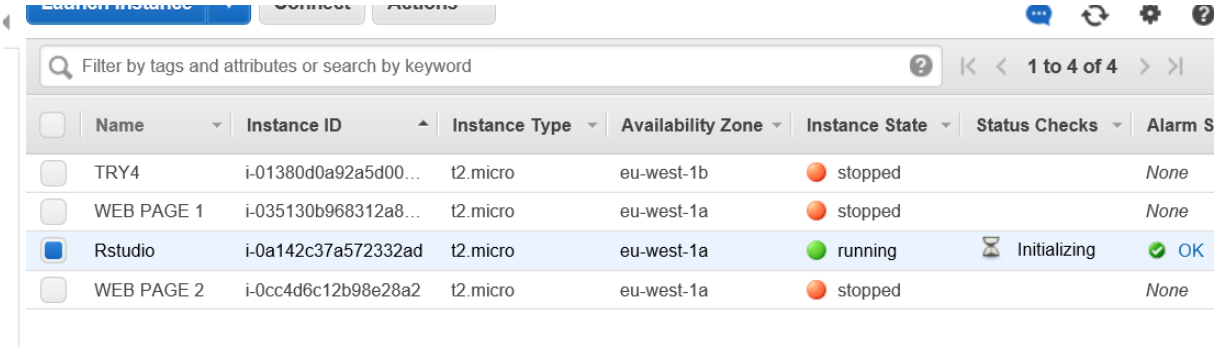
4/ add security group the HTTP 8787



5/ load the key

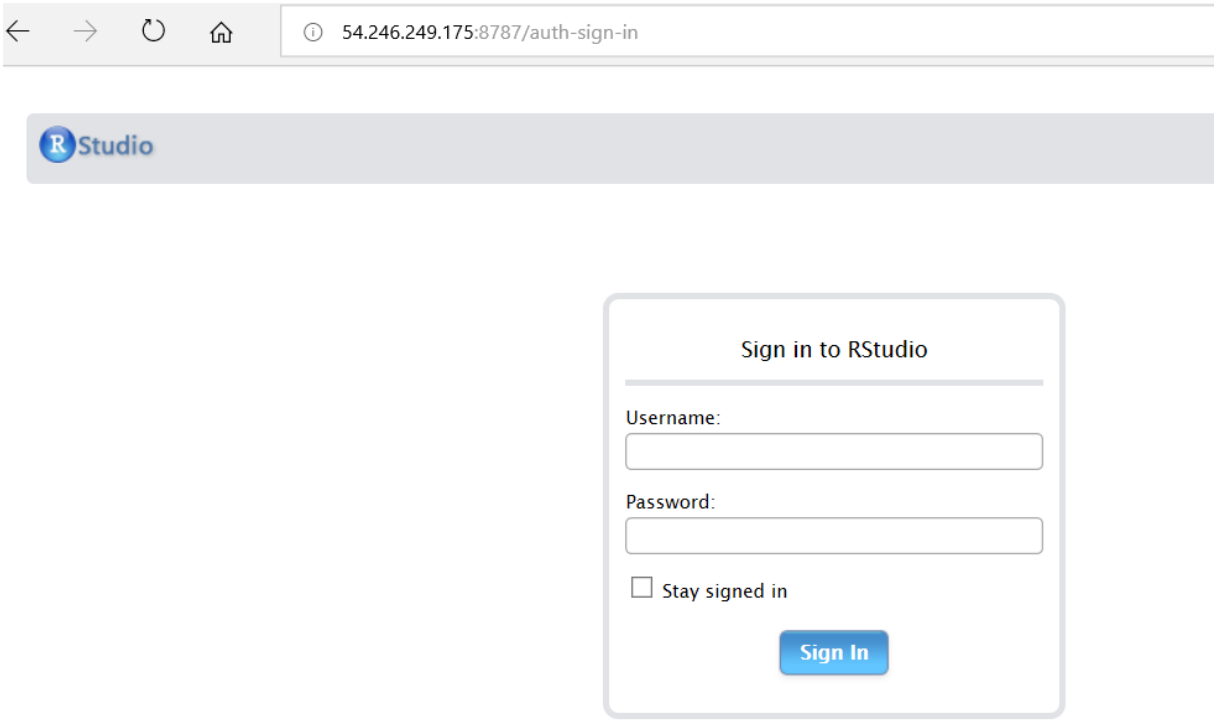


7/ Change the name of the instance by clicking on name Table

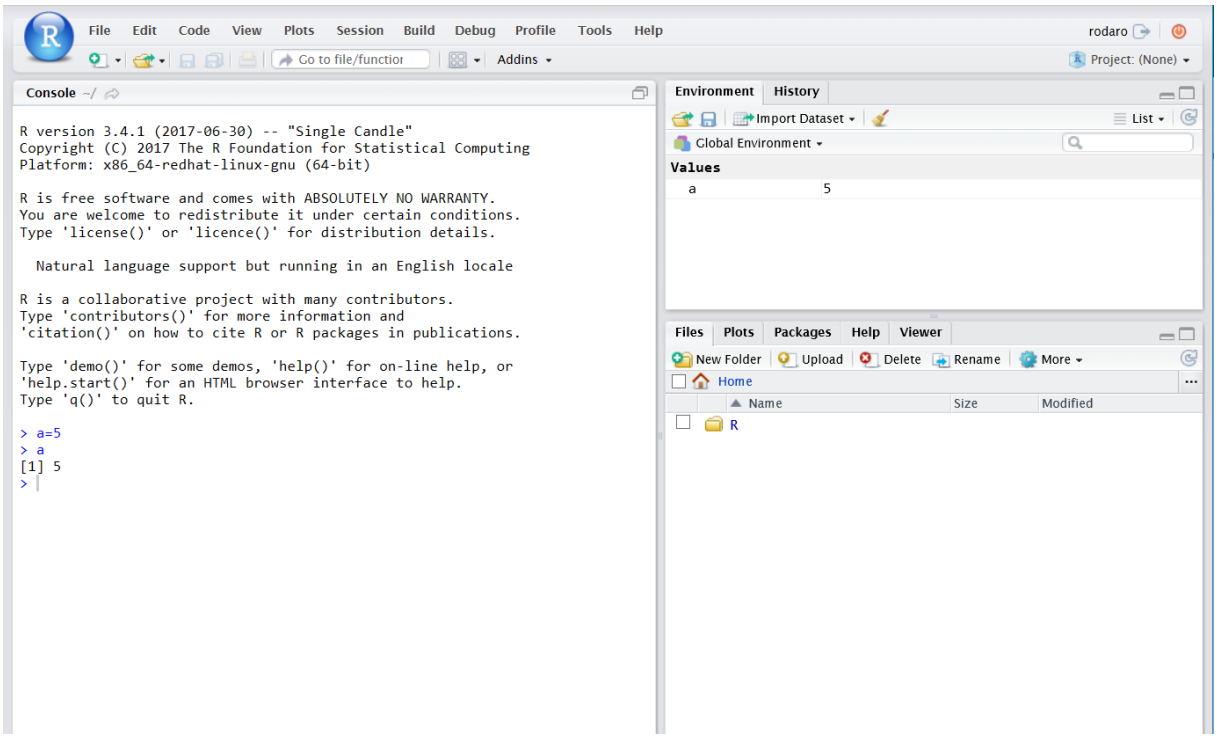


Task 3 Connection to Rstudio via a web browser :

1/ Go on a web browser on 54.246.249.175:8787



2/ See that the console is responding and then we see the Rstudio is available :


File Edit Code View Plots Session Build Debug Profile Tools Help
rodaro
Go to file/functior
Addins
Project: (None)
Console ~/
R version 3.4.1 (2017-06-30) -- "Single Candle"
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Platform: x86_64-redhat-linux-gnu (64-bit)
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Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
> a=5
> a
[1] 5
>
Environment History
Import Dataset
List
Global Environment
Values
a 5
Files Plots Packages Help Viewer
New Folder Upload Delete Rename More
Home
Name Size Modified
R