## **TASK 1 VPC Creation**

1 In the Services console select VPC Start VPC WIZARD

Select: VPC with a Single Public Subnet

Click Select

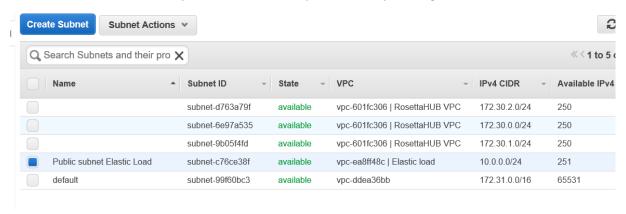
## Change the VPC name with loadbalancer

Step 2: VPC with a Single Public Subnet

IPv4 CIDR block:*	10.0.0.0/16	(65531 IP addresses available)
IPv6 CIDR block:	No IPv6 CIDR Block	
	O Amazon provided IPv6	CIDR block
VPC name:	Rstudio	
Public subnet's IPv4 CIDR:*	10.0.0.0/24	(251 IP addresses available)
Availability Zone:*	No Preference ∨	
Subnet name:	Public subnet	
	You can add more subnets	s after AWS creates the VPC.
Service endpoints		
	Add Endpoint	
Enable DNS hostnames:*	● Yes ○ No	
Hardware tenancy:*	Default ∨	
		Cancel and Exit Back Create

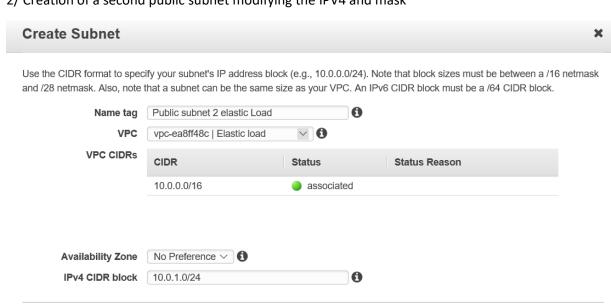
#### Click **OK**

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



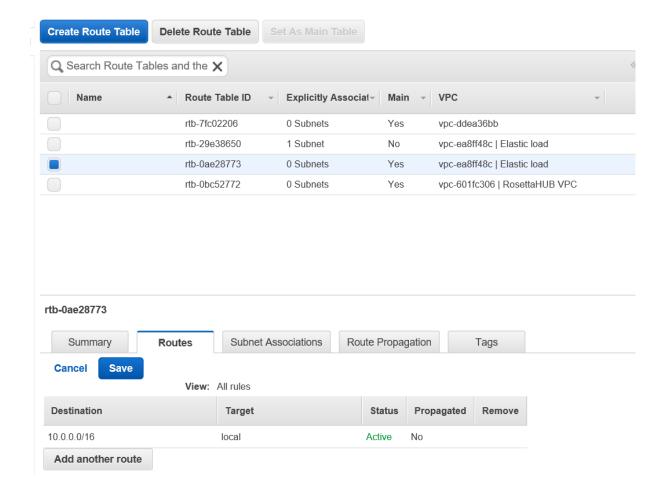


## 2/ Creation of a second public subnet modifying the IPV4 and mask

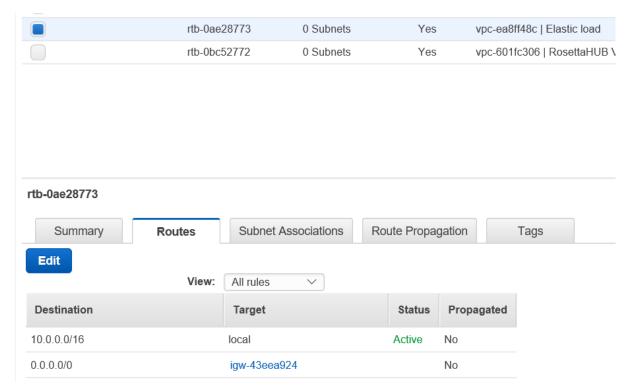


Yes, Create

Cancel



3/ Define the same IGW in the route table of the second public VPC than the first one.

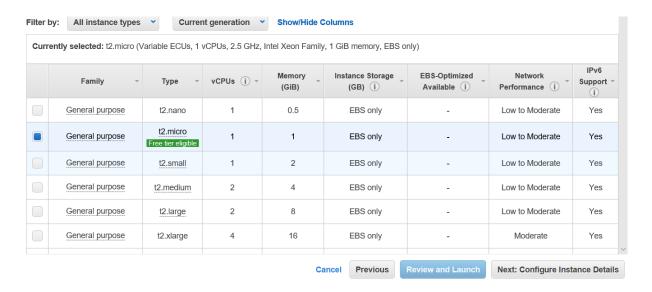


#### Task 2: lauch the EC2 instance

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.



## Select the good VPC and apply this for the 2 subnets

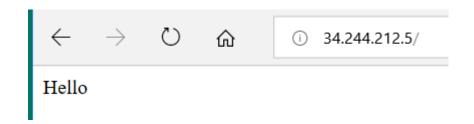
### Step 3: Configure Instance Details

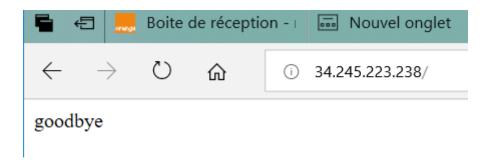
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lov role to the instance, and more.

Number of instances	(i)	1 Launch into Auto Scaling Group (1)
Purchasing option	i	☐ Request Spot instances
Network	(i)	vpc-ea8ff48c   Elastic load
Subnet	i	subnet-6258d72a   Public subnet 2 elastic Load   eu- ∨ Create new subnet 251 IP Addresses available
Auto-assign Public IP	i	Enable
Placement group	i	☐ Add instance to placement group.
IAM role	(i)	None Create new IAM role
Shutdown behavior	i	Stop
Enable termination protection	(i)	☐ Protect against accidental termination
Monitoring	i	☐ Enable CloudWatch detailed monitoring Additional charges apply.

#!/bin/bash
sudo yum update -y
sudo yum -y install httpd

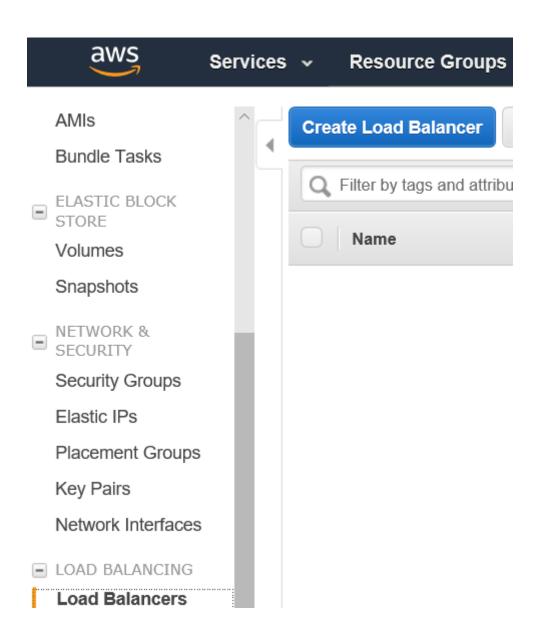
sudo service httpd start sudo bash -c 'echo Hello> /var/www/html/index.html'





Task Create Load balancer

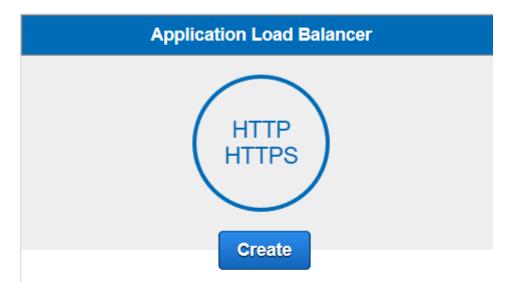
On EC2 instance console



Select HTTP HTTPs

# Select load balancer type

Elastic Load Balancing supports three types of load balancers: needs. Learn more about which load balancer is right for you



Choose an Application Load Balancer when you need a flexible feature set for your web applications with HTTP and HTTPS traffic. Operating at the request level, Application Load Balancers provide advanced routing, TLS termination and visibility features targeted at application architectures, including microservices and containers.

Learn more >