**RStudio Server Setup on AWS Linux2 Machine**

**Step 1 : Create an elastic IP address**

The elastic IP address will be associated with your NAT getway instance that will be created automatically in step 3

**Step 2 VPC Setup:**

**Easy way :** Create your setup using the VPC Wizard with the option 2. VPC with Public and Private Subnets

**Hard way :**

* Create a VPC
* Create an Internet Getway that you link to your VPC
* Create a Public Subnet
* Create a Route table and associate it to the Public Subnet and internet getway
* Create a Private Subnet
* Create a Route Table and associate it to the private Subnet
* Create a NAT getway that you will associate to your elastic IP

**Step 3 : Create The Bastion Instance in your public subnet**

Create a public instance (with the option auto assign Public IP enabled) in your public subnet with the following security group inbound rules:

* SSH from everywhere (or from your own IP address)

When you create your instance download the private key ( with the extension .pem)

From Windows, use puttygen to create a .ppk file from the .pem

**Step 4 : Create The Private instance**

Create a private instance with no public ip in your private subnet with the following security group inbounds :

* SSH from the Security group of your Bastion

When you create your instance download the private key ( with the extension .pem)

From Windows, use puttygen to create a .ppk file from the .pem

Using Pagent, you can add the .ppk file

**Step 5 : Connect to the Bastion**

Using putty, connect to the Bastion instance with the authentication option “Allow Agent Forwarding”

**Step 6 : Connect to the private instance**

Because you added the key of your private instance to the pagent, you can SSH you private instance directly from the bastion with no need for the key

At this stage you can access internet from your private instance through the NAT getway