Networking Lab 6

NVA CSR1000v

Lab Overview

Let’s look at how to deploy and NVA on Azure. We will deploy a CSR 1000v router from Azure Marketplace.

Deploy network virtual appliance CSR1000v in Azure

* 1. Deploy a CSR1000v virtual router in Azure.
     1. From the portal home page, click on **‘+ Create a resource’**.
     2. Type ‘csr’ in the search box.
     3. This should give you a drop down menu on options on how to deploy the CSR. Select option ‘**CSR1000v Solution Deployment**’ and click '**Create**'.
  2. This will bring up a configuration screen for CSR. Follow the steps to complete the configuration and create the CSR. Remember to add 2 network interfaces to CSR. Follow prompts to create a new virtual network. We will use this vnet as simulated on-premises environment.

|  |  |
| --- | --- |
| **Setting** | **Value** |
| **Basics** |  |
| Virtual machine name | csr1 |
| Username | Azureuser |
| Password | <password of your choice> |
| Resource Group | Click **Create new** to create a new resource group **rg-csr** |
| Location | West US 2 |
| **Cisco CSR settings** |  |
| Number of network interfaces in CSR | 2 |
| Availability set | For this lab, select **No** |
| Virtual-network | Add virtual network name *vnet1* |
| Configure subnets | Subnet name: vnet1-subnet1 First subnet address prefix: 10.1.1.0/24 second subnet name: vnet1-subnet2 second subnet address prefix: 10.1.2.0/24 |

* 1. Verify configuration and click **OK** to go to the page to buy the CSR. Add your name, email address, phone number and click **Buy. Remember NVA charges will apply.**
  2. Go to the Virtual machines page. You should see the VM 'csr1' listed.
  3. Once the status of the VM changes to 'Running', click on the name. This takes you to the VM overview page.

Machine generated alternative text:
Home > New > Cisco CSRIOOOV Solution Deployment > Create Cisco CSR IOOOV Solution Deployment 
Summary 
Create Cisco CSRIOOOV Soluti... X 
2 
3 
Basics 
Cisco CSR settings 
Summary 
Cisco CSRIOOOV solution Deploy„ 
Summary 
O 
Validation passed 
Subscription 
Resource group 
Location 
Virtual Machine name 
Username 
Password 
Cisco IOS XE Image Version 
Cisco CSR settings 
Number of Network Interfac... 
Managed Disk 
Virtual machine size 
Custom Data 
Availability Set 
Boot diagnostics 
Public IP address 
DNS label 
Virtual network 
First subnet 
First subnet address prefix 
Second subnet 
Second subnet address prefix 
binal-sandbox 
rg-csr 
(US) West US 2 
azureuser 
16.9 
2 
Enabled 
Standard DS2 v2 
No 
No 
false 
csrl -pip 
csrl -dns 
vnet 1 
vnet 1 -sub netl 
10.1.10/24 
vnet 1-subnet2 
10.1.2.0/24 

Once the virtual machine is created, go to the virtual machine and get the public IP of the VM.

From a terminal, connect to the VM as follows:

**ssh azureuser@<public-ip-of-csr-vm>**

This brings you to the CSR prompt where you can view and configure the CSR.

Verify security group applied to the CSR.

When you created a CSR NVA virtual machine, a network security group was applied to the CSR interfaces. Go to Network Security Groups and find NSG **csr1-SSH-SecurityGroup.**

Under Settings, go to Network interfaces. You will see the network security group applied on the two csr network interfaces,

Verify the **Inbound Security rules** under Settings. Review the rules allowed.