

Networking Lab 6

NVA CSR1000v

Author:

Binal Shah

Principal Cloud Solution Architect, Microsoft

Lab Overview

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

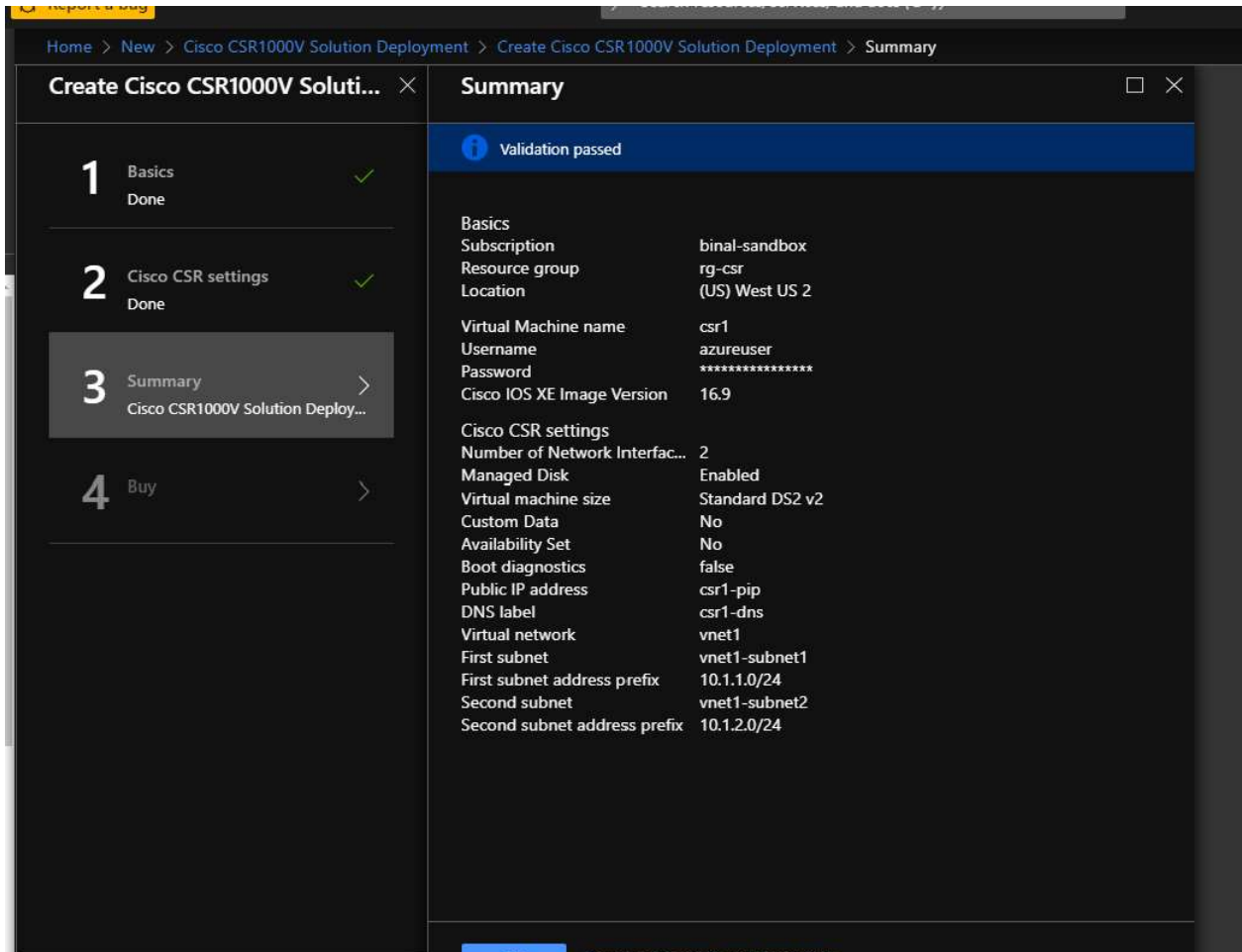
Deploy network virtual appliance CSR1000v in Azure

1. Deploy a CSR1000v virtual router in Azure.
 - a. From the portal home page, click on **'+ Create a resource'**.
 - b. Type 'csr' in the search box.
 - c. 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 <i>vnet1</i>
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

3. 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.**
4. Go to the Virtual machines page. You should see the VM 'csr1' listed.

- Once the status of the VM changes to 'Running', click on the name. This takes you to the VM overview page.



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.