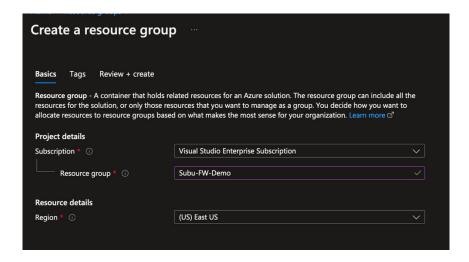
# **Azure Firewall Protection**

In this Blog we will learn about how to implement the Azure Firewall protection for the Network/Application traffic and see the metrics.

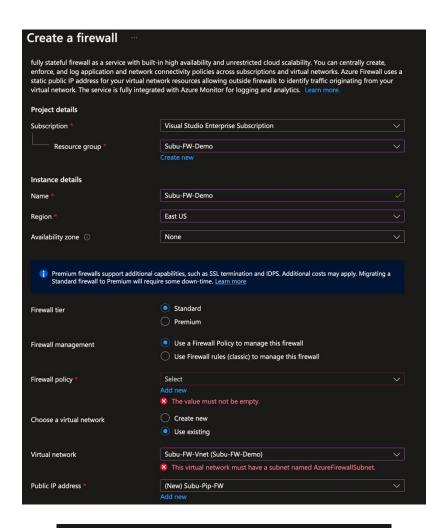
## **Create a new Resource Group:**

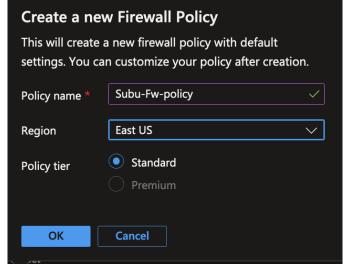
Login to Azure portal (https://portal.azure.com/) and then create a new RG

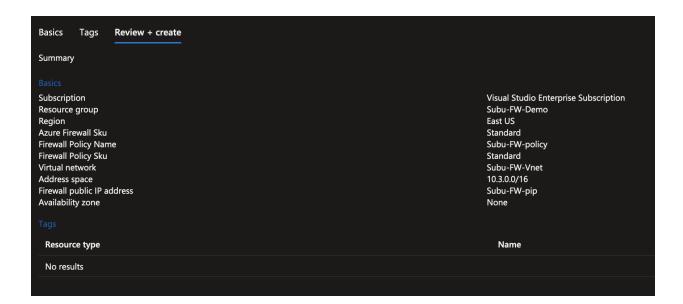


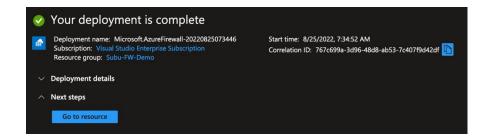
# **Create a new Firewall Plan:**

In the newly created RG, we need to create a new Firewall protection plan and then we will do the basic exercise to check if this plan is really protecting our VNET or not.



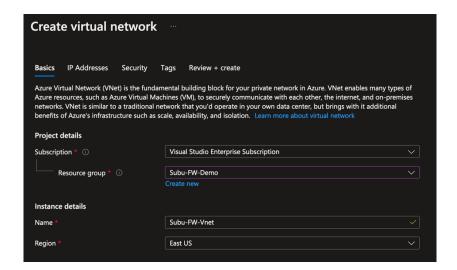


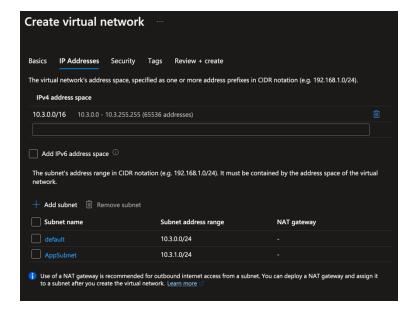


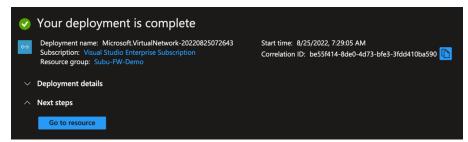


## **Create a new Virtual Network:**

Create a new VNet in the same RG where we have created the new Firewall plan

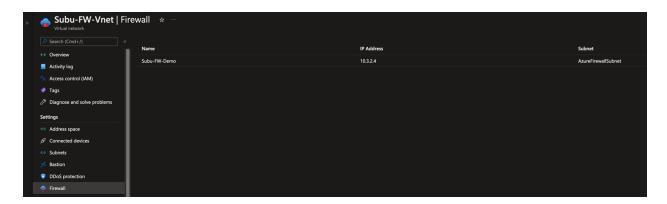






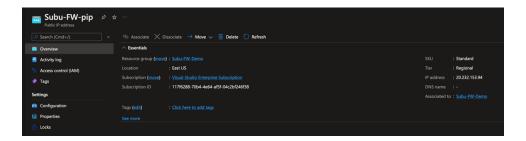
## **Enable the Firewall protection on the VNET we created:**

In the Vnet we can check if the Firewall which we created is enabled or not.



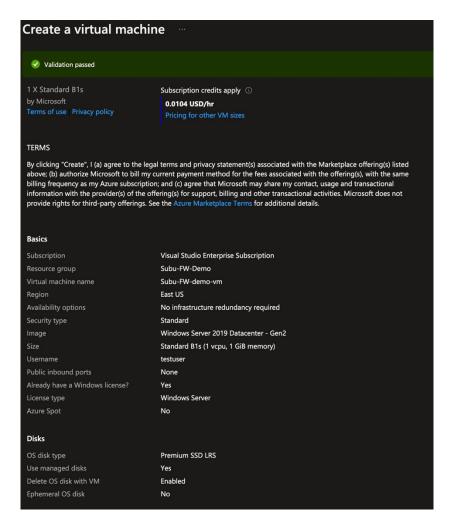
### **Create a new Public IP:**

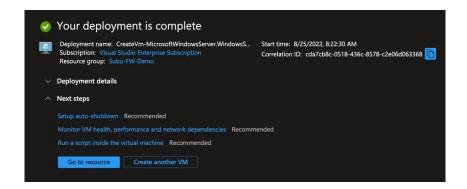
Next step for us is to create a new Public IP so that we can link it with the Firewall to implement the rules.



## Create a new VM to test the Firewall:

Create a new VM and add the same Vnet and Public IP to this VM so that we will be able to test the VM accordingly.

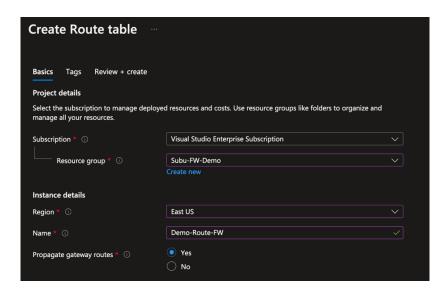


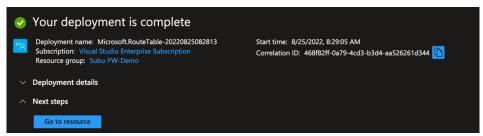


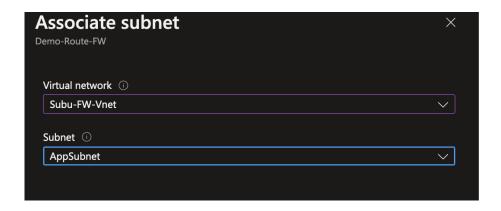
Once the firewall is created then our work is to create the Route table and policies.

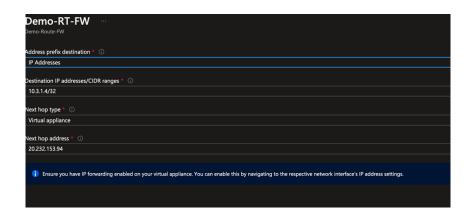
#### Create a new Route Table for Firewall:

Create a new Route Table to link the subnet and also the next hop to match the public iP of the firewall so that all the traffic will come and hit the firewall IP





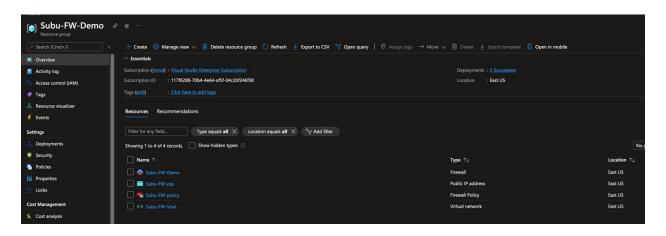






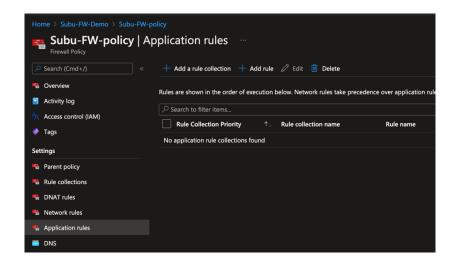
#### **Edit the Firewall Policies:**

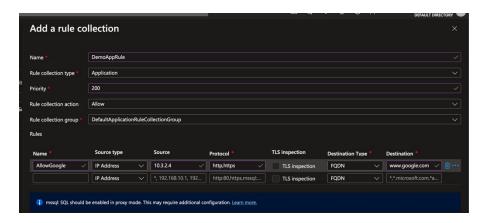
Next, we need to edit the firewall policies with different aspects.



# **Application Rules:**

We can edit the Application rules to make sure that the corresponding websites with Allow and Deny rules.

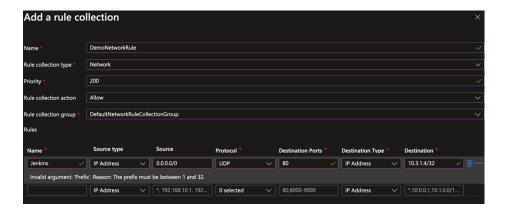






## **Network Rules:**

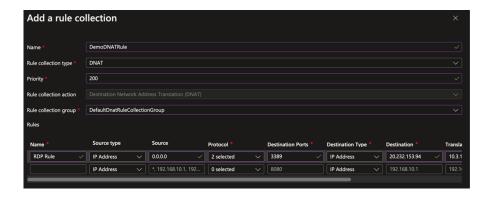
We can edit the Network rules to make sure that the corresponding websites with Allow and Deny rules.





#### **DNAT Rules:**

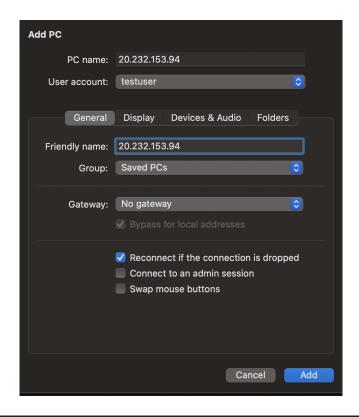
We can edit the DNAT rules to make sure that the corresponding websites with Allow and Deny rules.

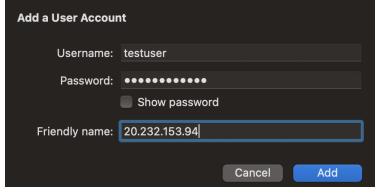


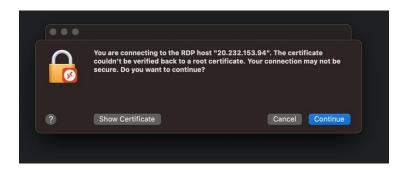


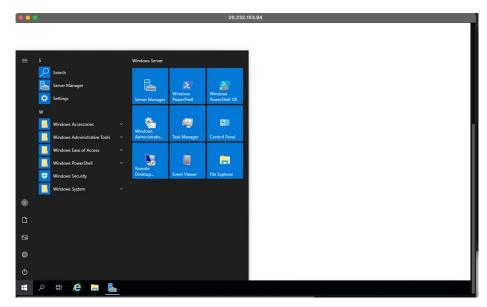
# Check the Firewall policies Real time:

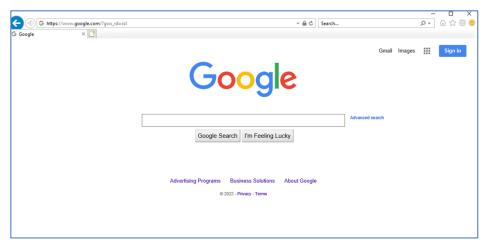
Login to the VM using the RDP. We do not have the public IP of the VM, so we will use the Firewall IP to do the RDP to login to the Server.











When we try to access any other websites apart from allowed entry of Google.com then we will get the below error.

