Enterprise Cloud Services

How To Set-Up Networking?

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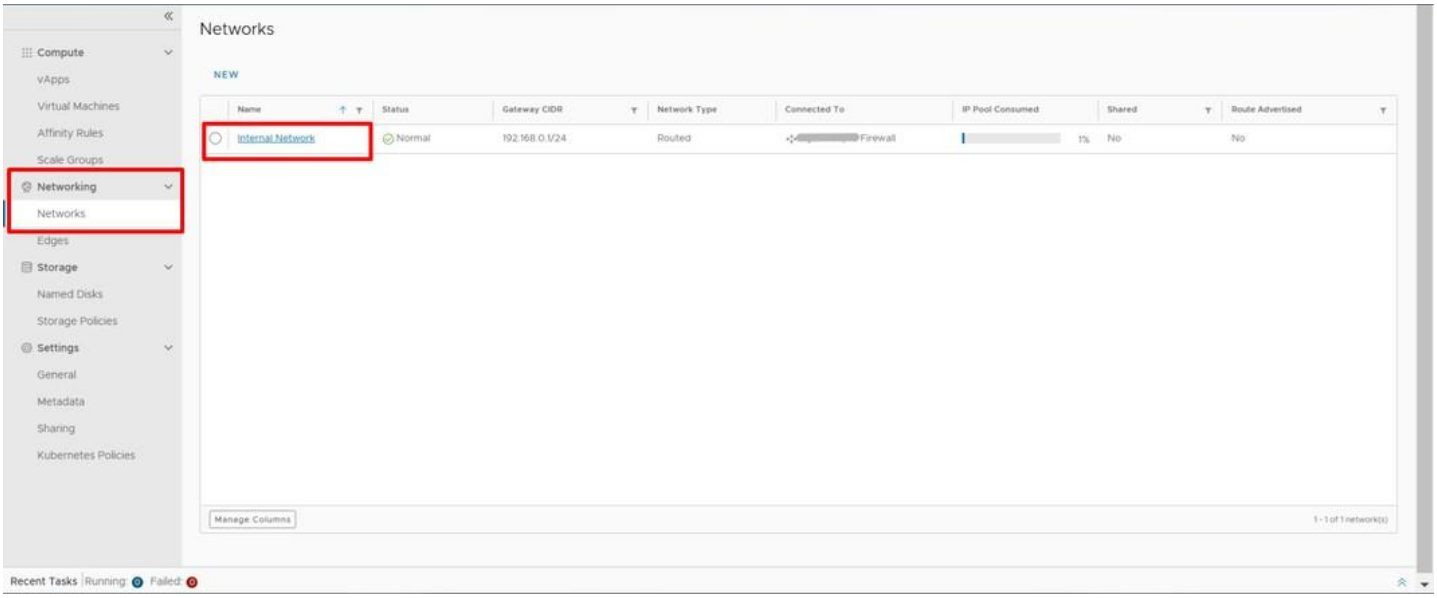
Step-1 : Let's begin with network setup within our enterprise cloud console.

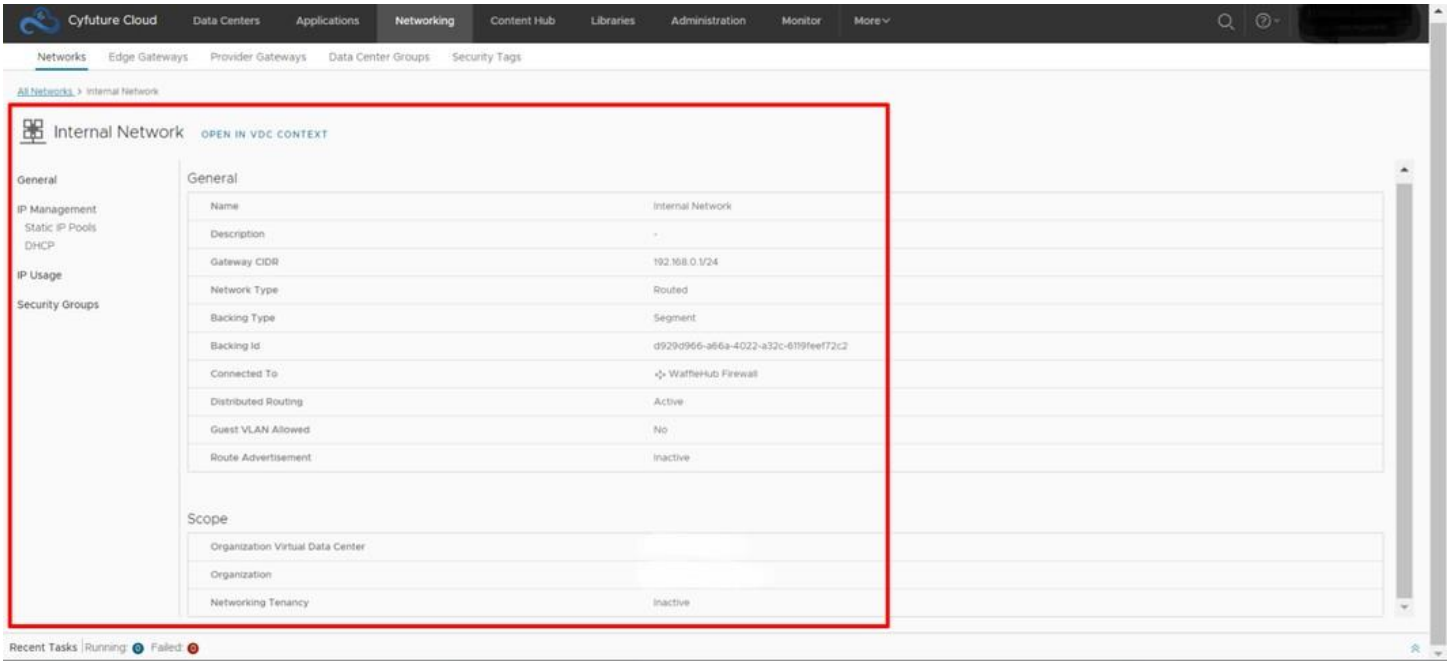
In order to begin, click on the Networking tab from the left or either from the top bar at the console page.

Next, when you click on **Networks you can flnd the internal network**.



In internal networks tab, it **highlights the various networking components** such as in the General tab- Gateway CIDR value (for ex. here- 192.168.0.0/24), Network type, Backing type, Backing ID, etc.

In the IP Management it showcases the static IP pools allocations, IP Usage, etc.



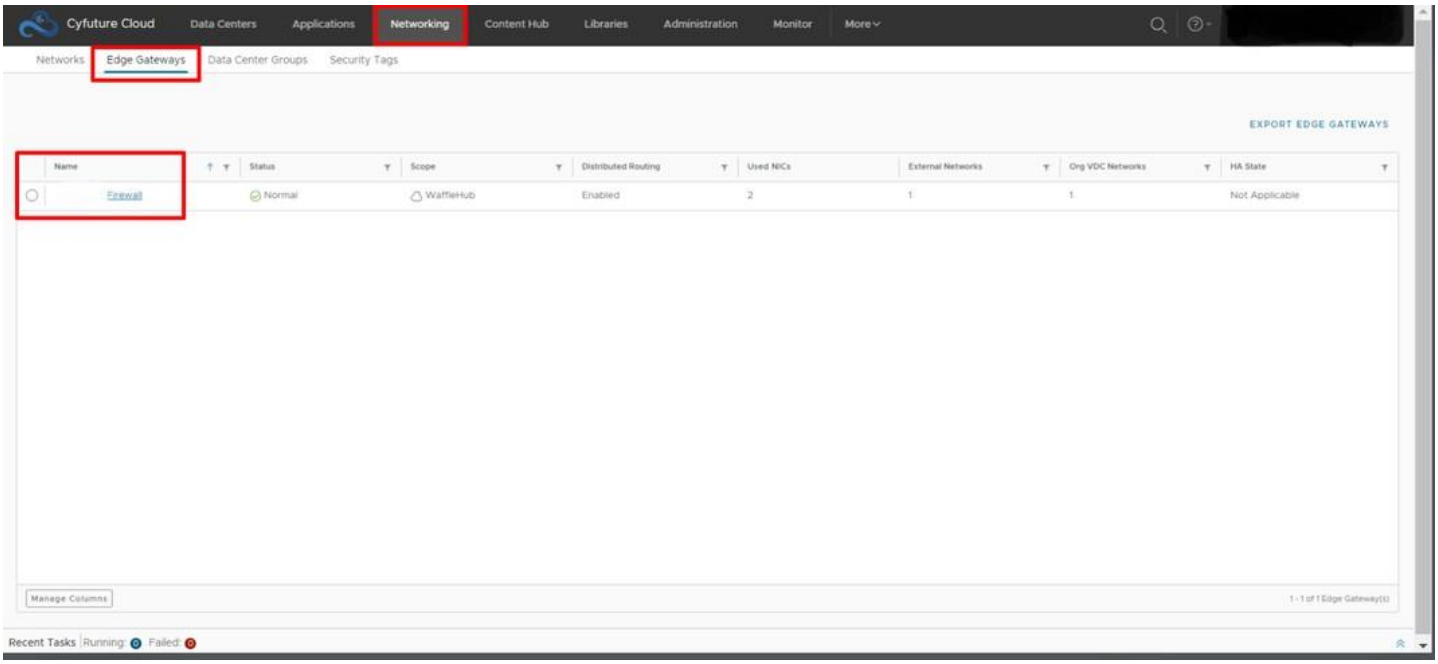
Step-2: Now we need to **set up the SNAT AND DNAT rules** for the virtual machine to enable access to outside networks and vice-versa.

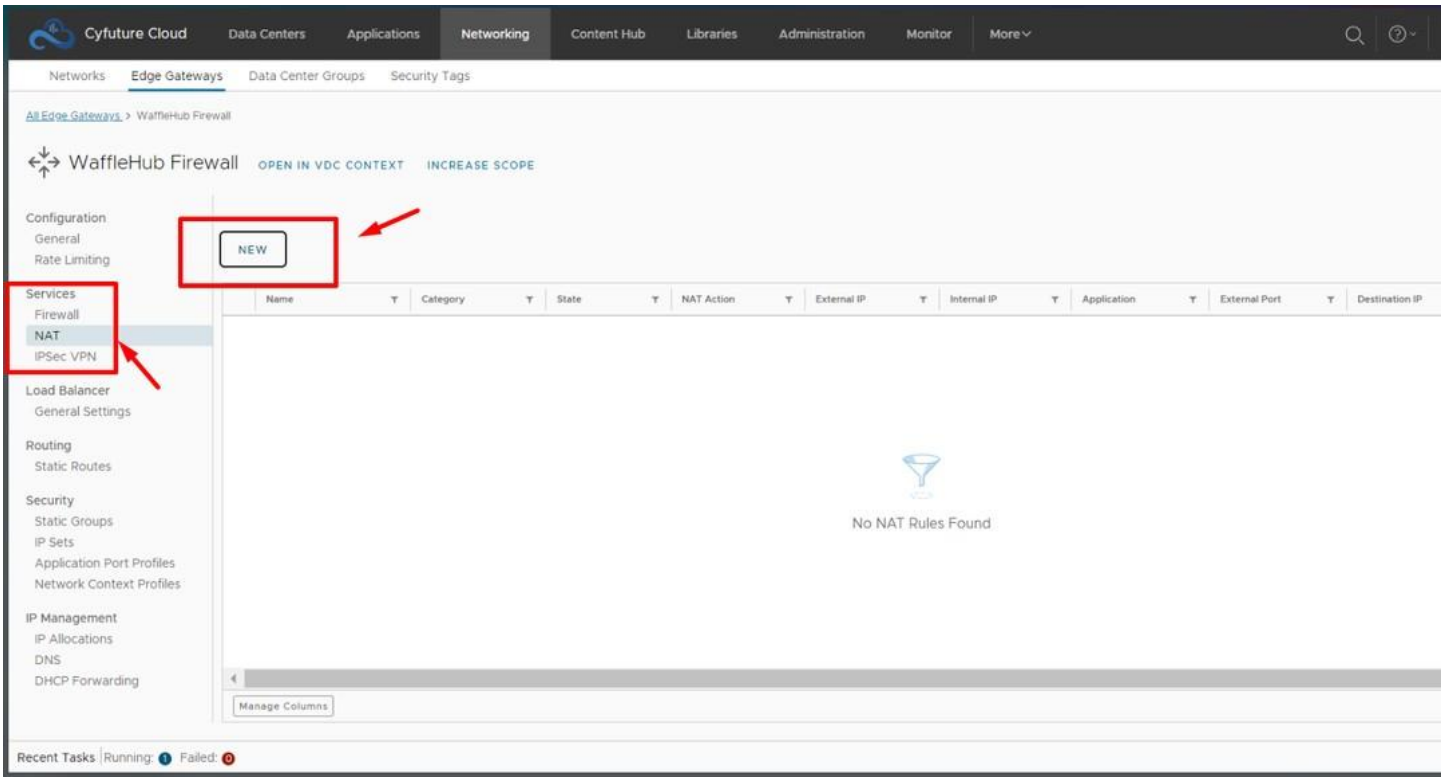
Thus click on **Networks, then click on Edge Gateways**.

Then click on the name of your firewall.

Within this tab click on NAT under services and create new NAT service.

By default for every virtual machine both SNAT and DNAT is required to be setup.



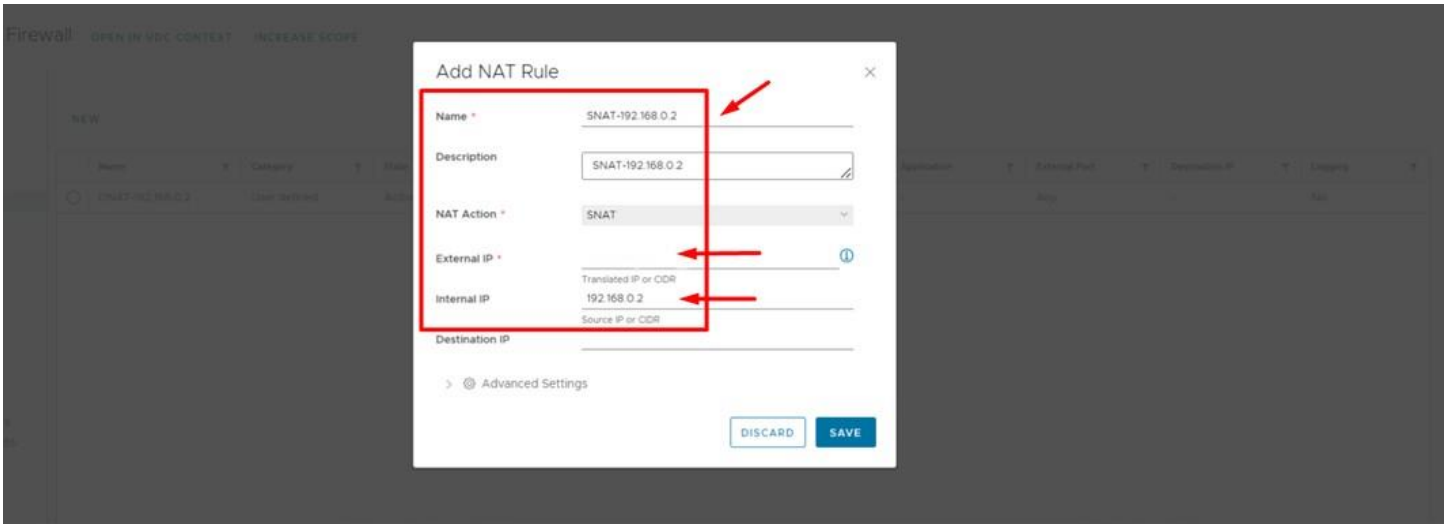


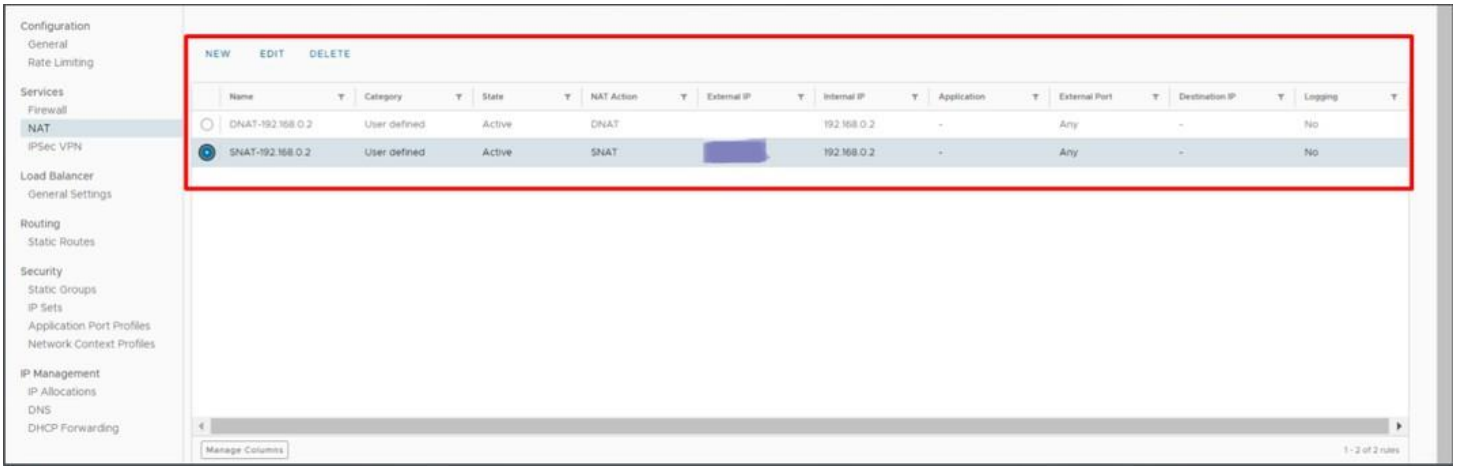
Step-3 : Now in order to **create an SNAT rule**, begin with entering the name (usually we prefer to write the NAT rule name along with the private IP Address: SNAT-192.168.0.2 in both the

name and description to identify).

Then choose the NAT action, here SNAT.

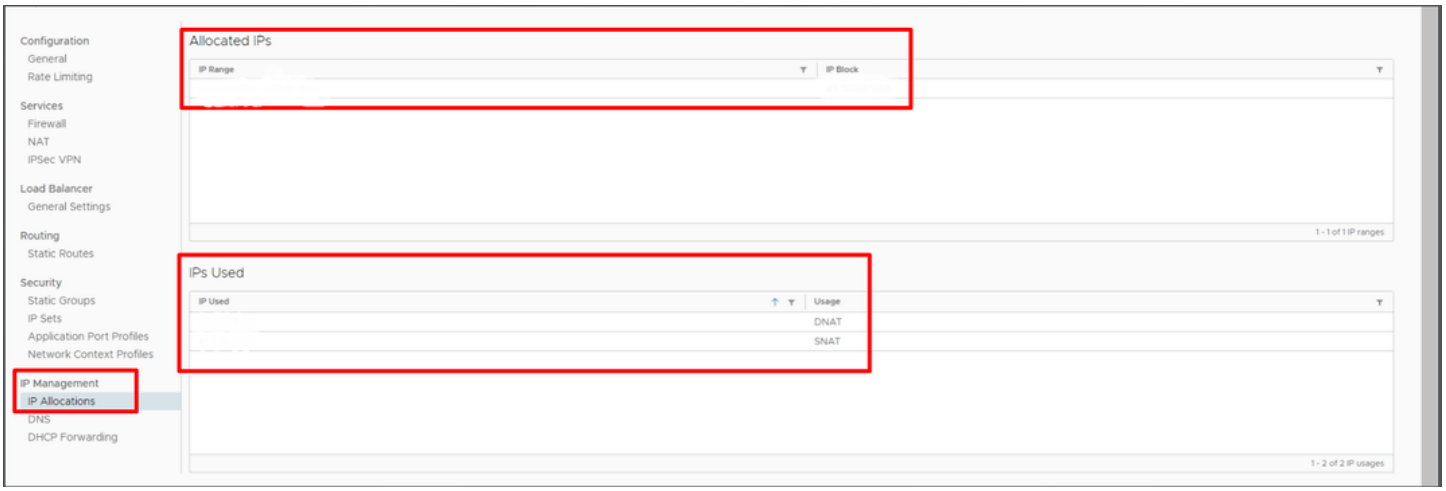
Then choose the External IP address from the right ‘i’ button and write your private IP as well. Now your basic necessary configuration is done and finally click on save to finish. Similarly **create the same rule for DNAT**.





Further, you can **edit the rules as per your requirement**.

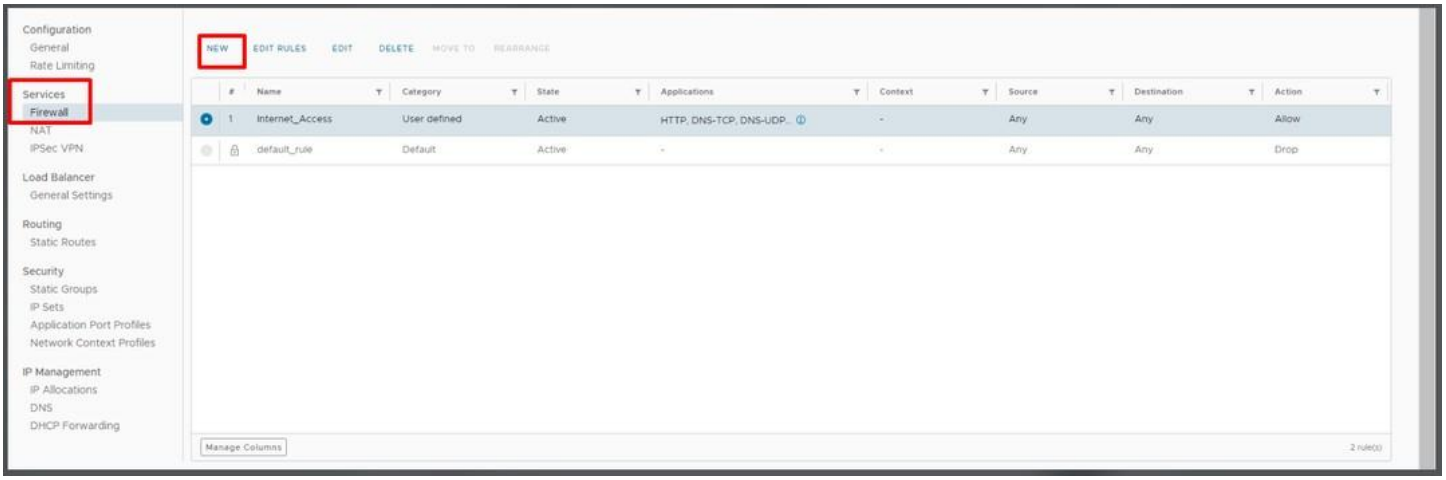
Also in order to check the set of available public IP’s allocated to you in your enterprise portal, in IP Management on left tab, click on the **IP Allocations** to check the same.



Step-4: Now after **connecting to the external or internal networks**, is is essential to setup the firewall rules.

In order to enable access from to the internet and various networking services like SSH, RDP, DNS, ICMPv4 enablement, etc. we need to configure the firewall rules.

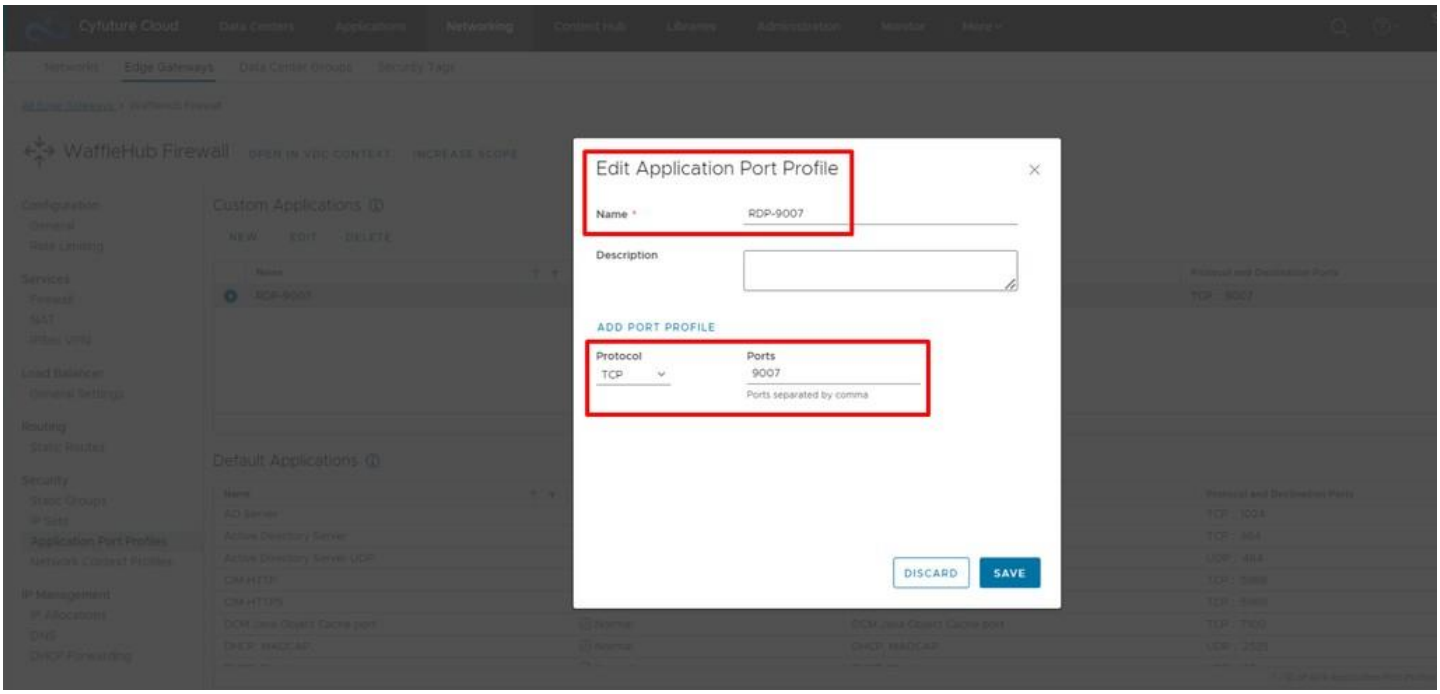
Click on Firewall under the services tab on left. By default the firewall is dropped to ensure security and prevent unauthorized access.



Step-5 : We begin with **creating the firewall rule** for Internet Access and few mandatory services like RDP (Remote Desktop connection Port-9007) for Windows machine and SSH (Port-22 or 2232), DNS- TCP & UDP, ICMPv4 and HTTP as well as HTTPS rule.

Since the RDP on port 9007 is not created by default, we have to create the port by clicking on Application Port profile on the left under the security tab.

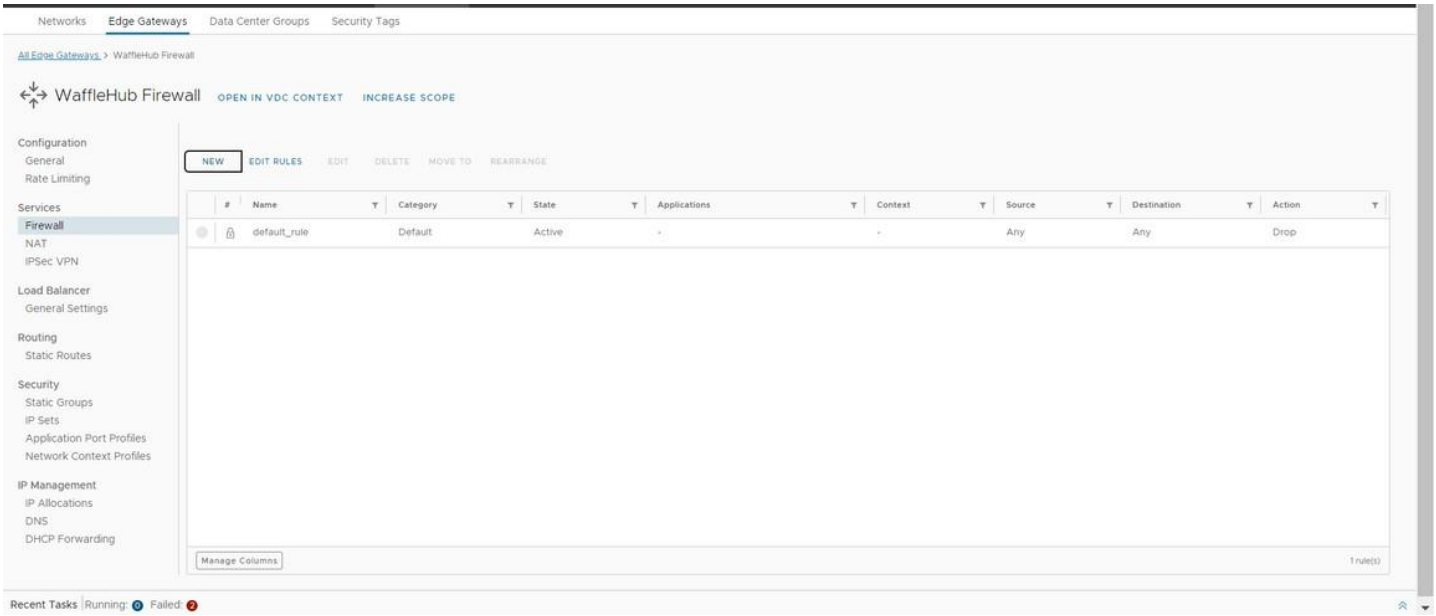
In custom application click on new and create an RDP port rule, select the protocol as TCP and write the port for the same and finally click on save.

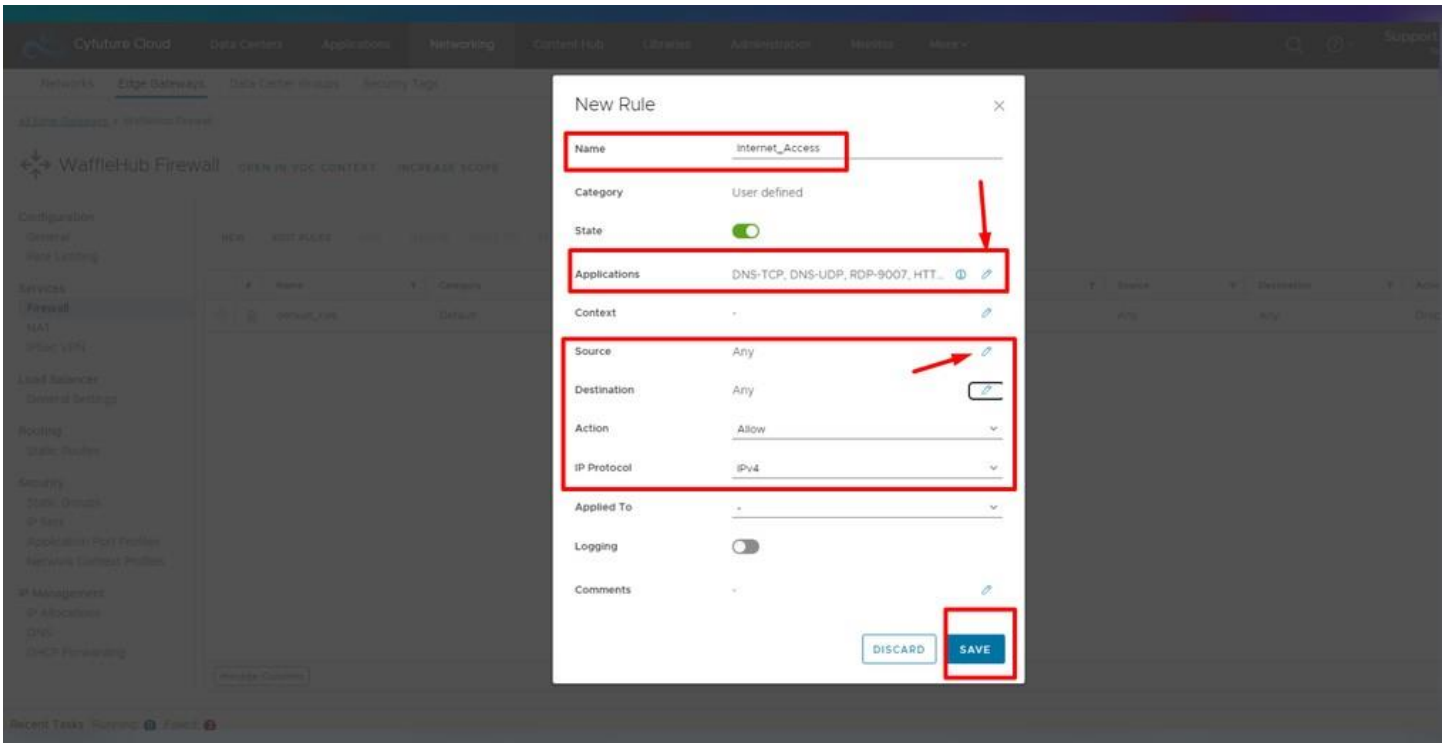


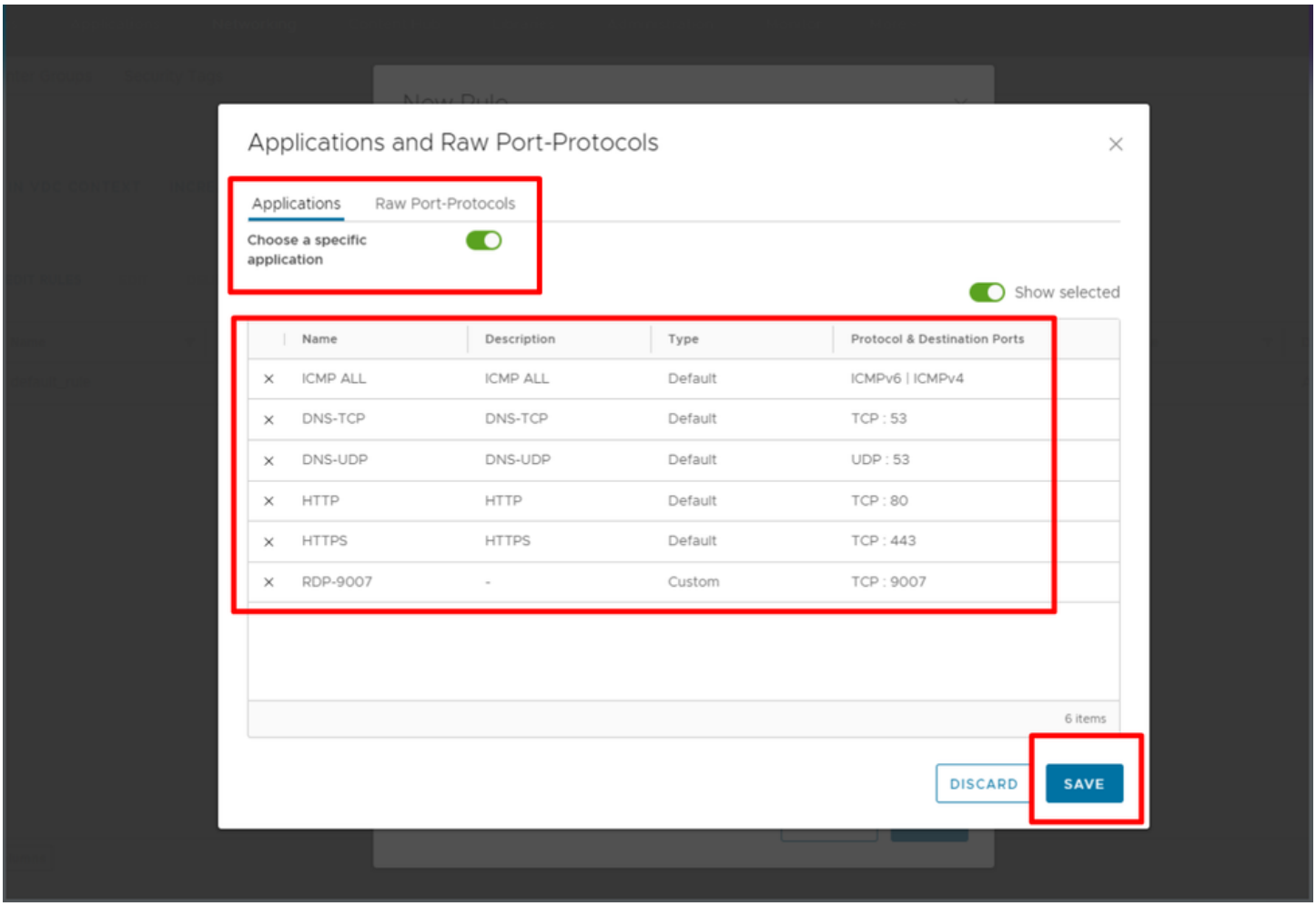
Step-6 : Now coming back to firewall rules setup, for Internet access rule, click on new rule. Now enter the name as **Internet_Access** or anything of your choice.

Now click on Applications to select the applications to enable on firewall on their allocated ports.

For example, here for basic use bare minimum you must allow these below mentioned applications by choosing the specific ones and then click on save.





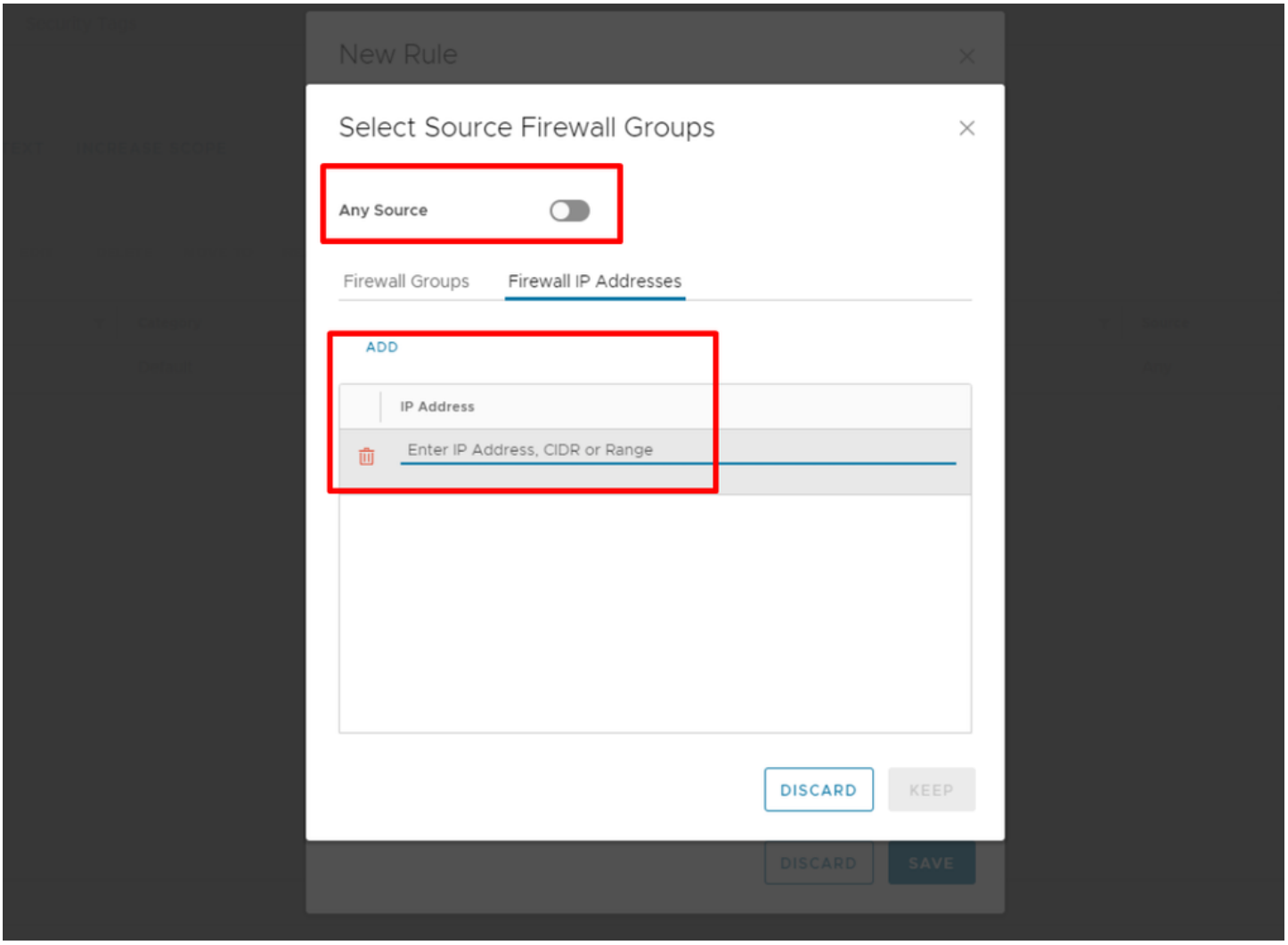


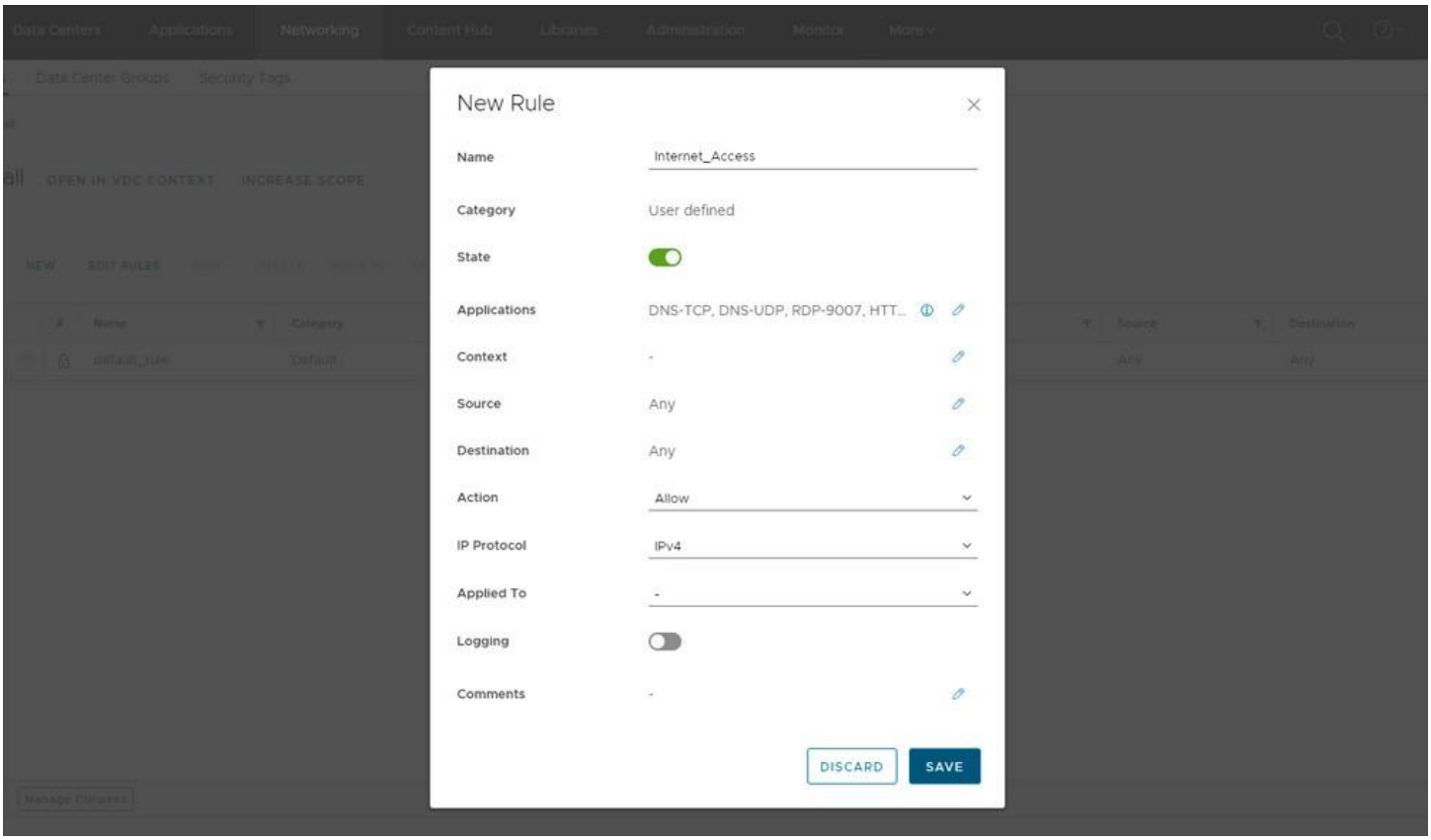
Step-7: Select the source and the destination by specifying the access on the firewall from which source to which destination you want to allow.

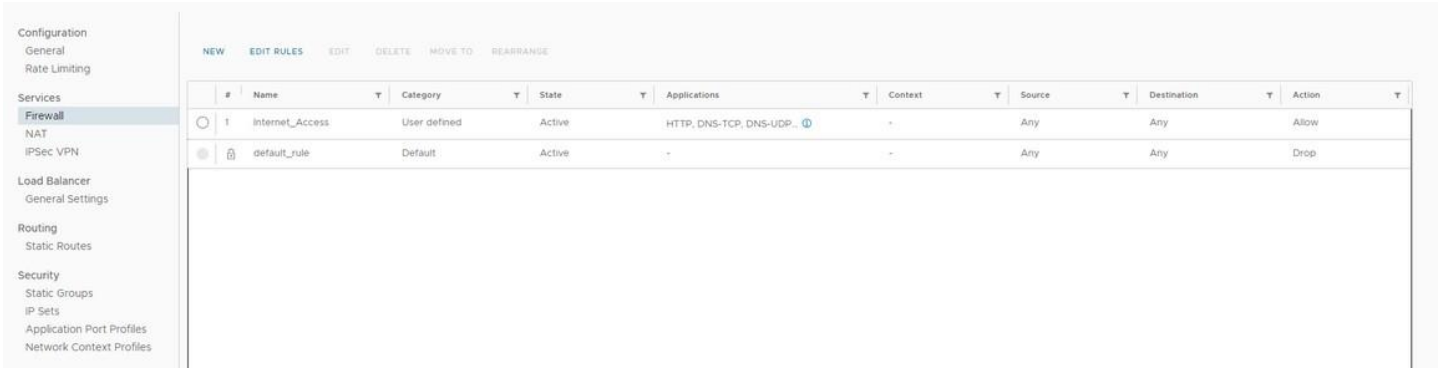
For example, in the below snippet you can find the source setup- you can either mention the source virtual machine IP Address or the select Any to allow any virtual machine.

Similarly you set up the same for the Destination. Here, we have for the ease chosen Source- Any and Destination- Any.

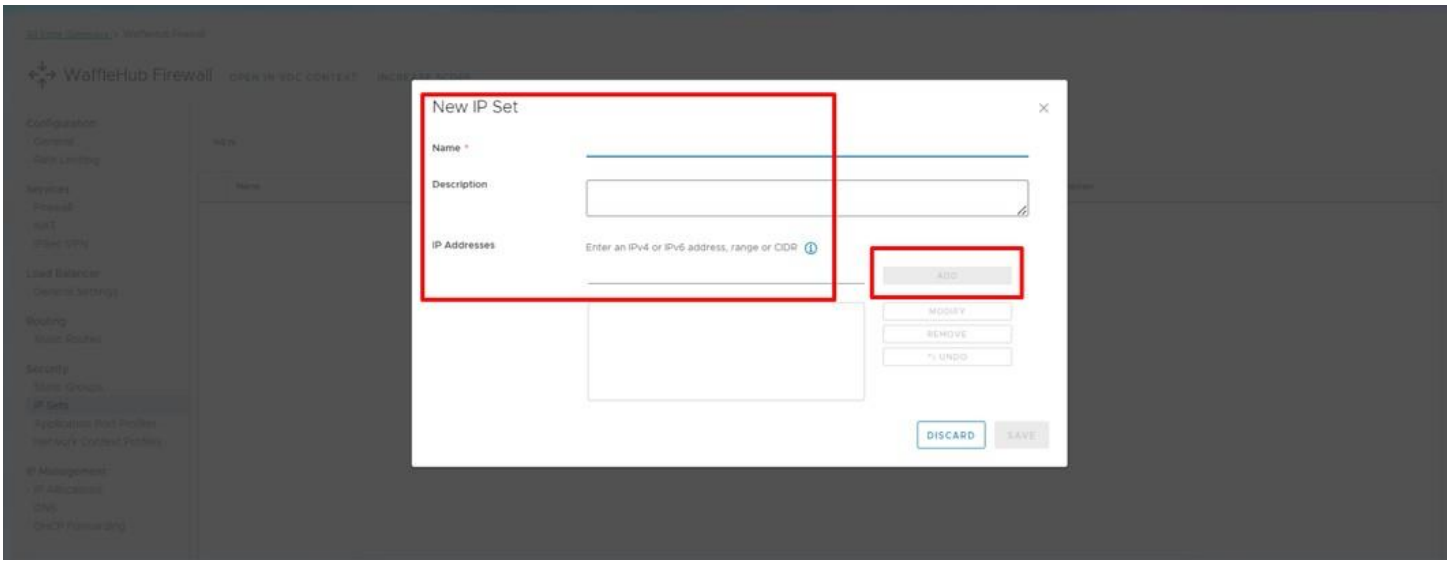
Then **select the Action to Allow and select the IP Protocol** (by default IPv4). Finally click on save to save the firewall rule and now the access for the specific applications over firewall is setup.







Step-8 : Further as a part of networking, if you want an **IP set or group**, you can do the same by clicking on **IP Sets** under security tab and specify the set of IP's you want to be grouped together for ease during selection of source and destination as well as other networking setup.



Thus, **flnally your basic necessary conflgurations setup for networking is achieved** and you can explore as well as access the enterprise cloud portal and various networking services as per your organization's need and requirement.

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