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How To Set-Up Your Kubernetes Cluster?

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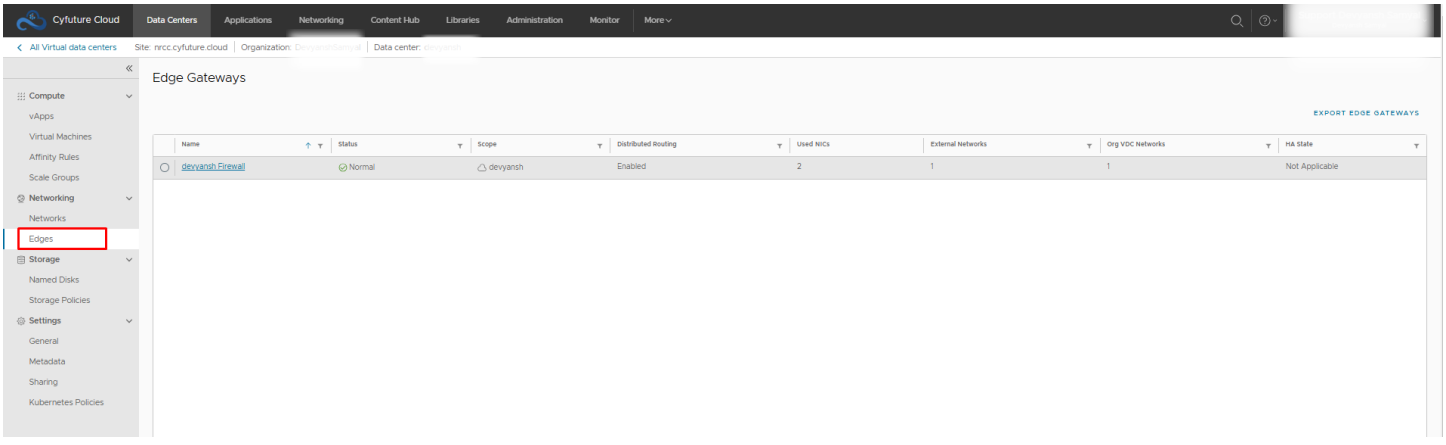
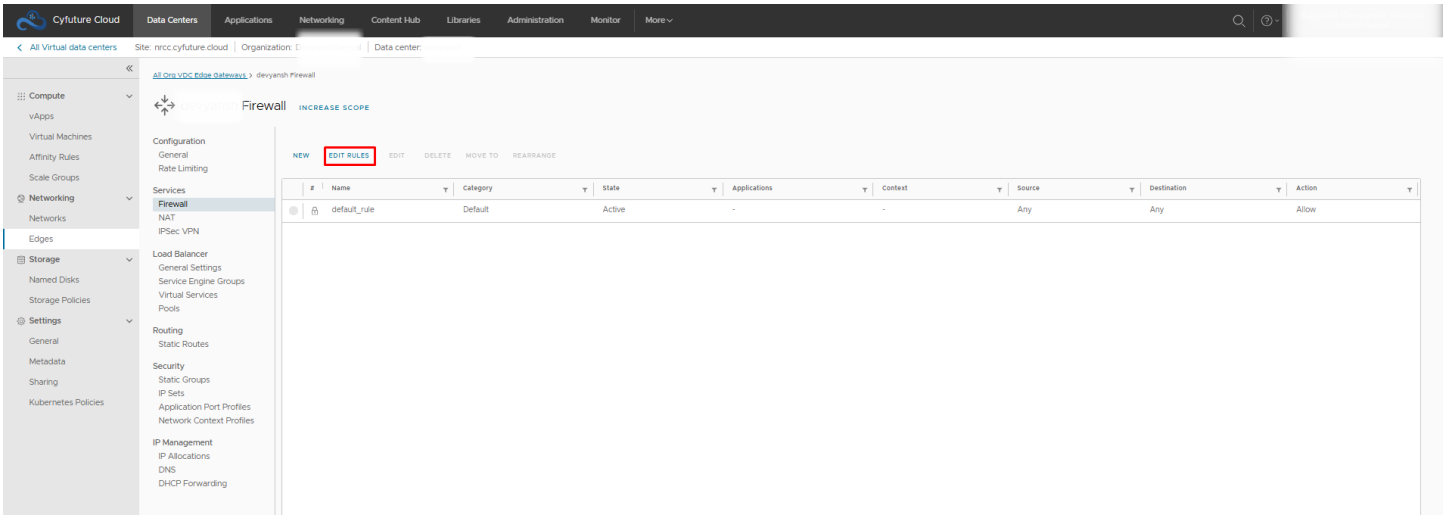
Step 1: Edit Edge Gateway rules.

Navigate to the **Edges** menu and select the **edge gateway** you want to edit.

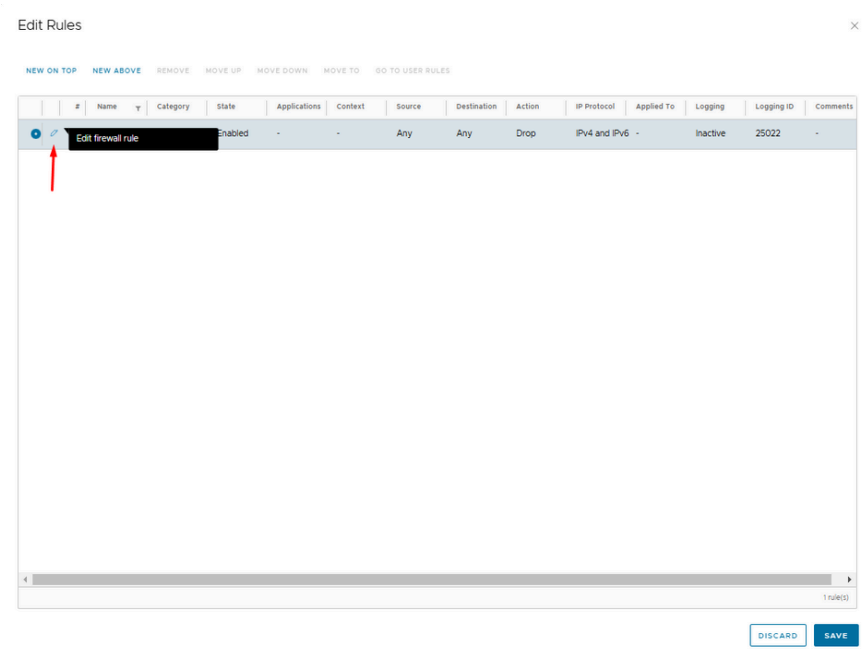


Step 2: Edit Firewall rules.

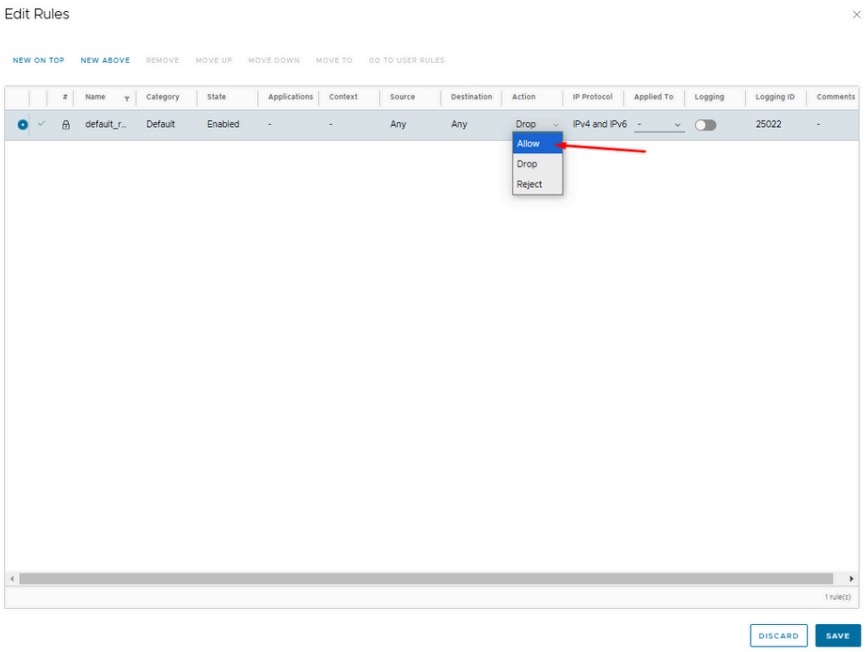
Click on the **Firewall** option to edit the firewall rules. Click on **Edit Rules** option.



Select the **firewall** and click on **edit firewall rule** button to enable editing.

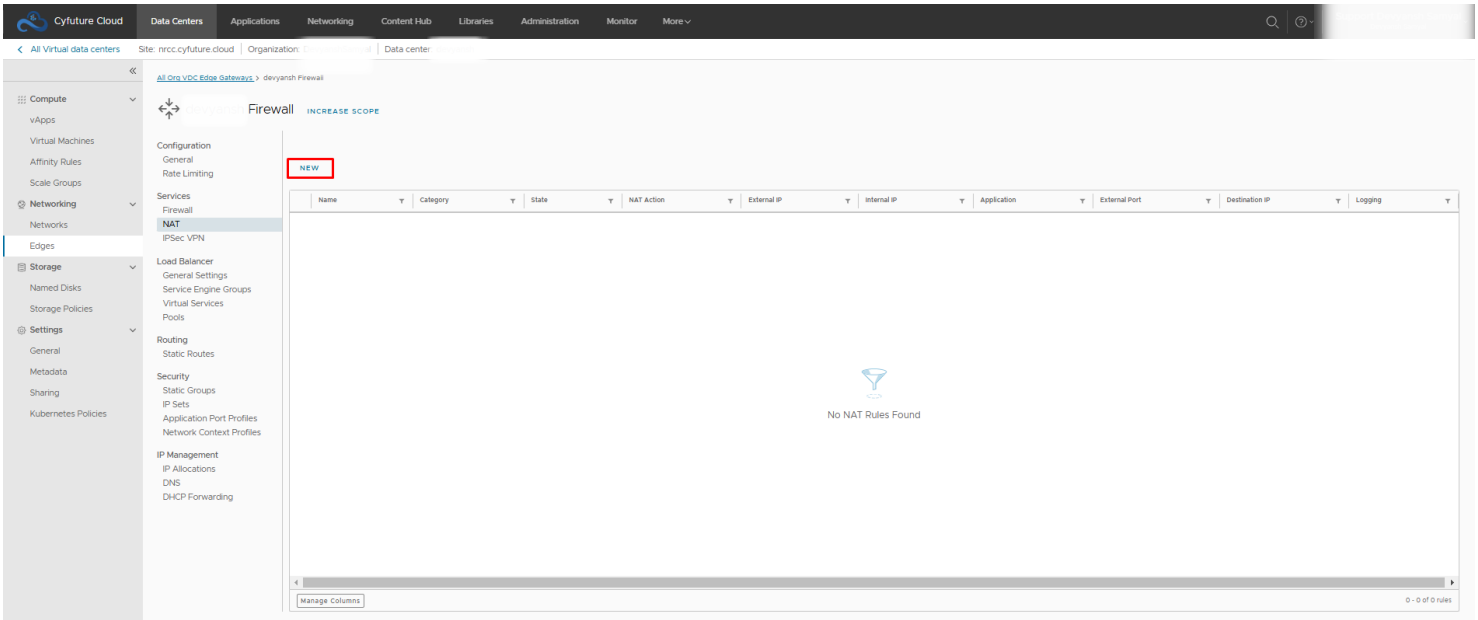


Now, edit the **Action** menu and select **Allow** and then save the settings.

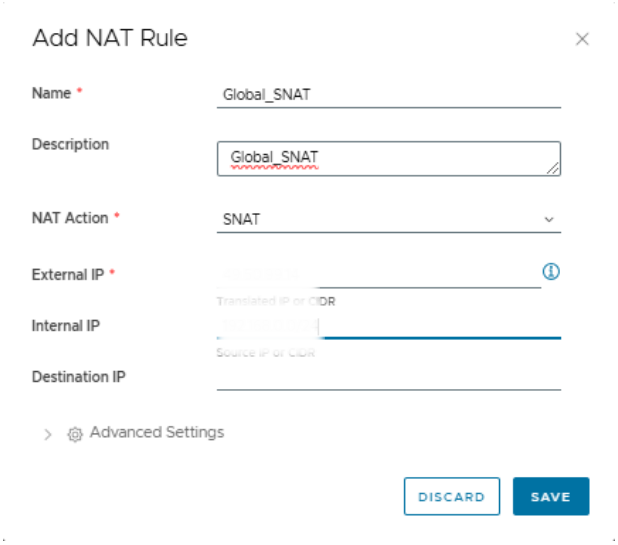


Step 3: Create NAT rules.

Navigate to the **NAT** rules menu and click on **New**

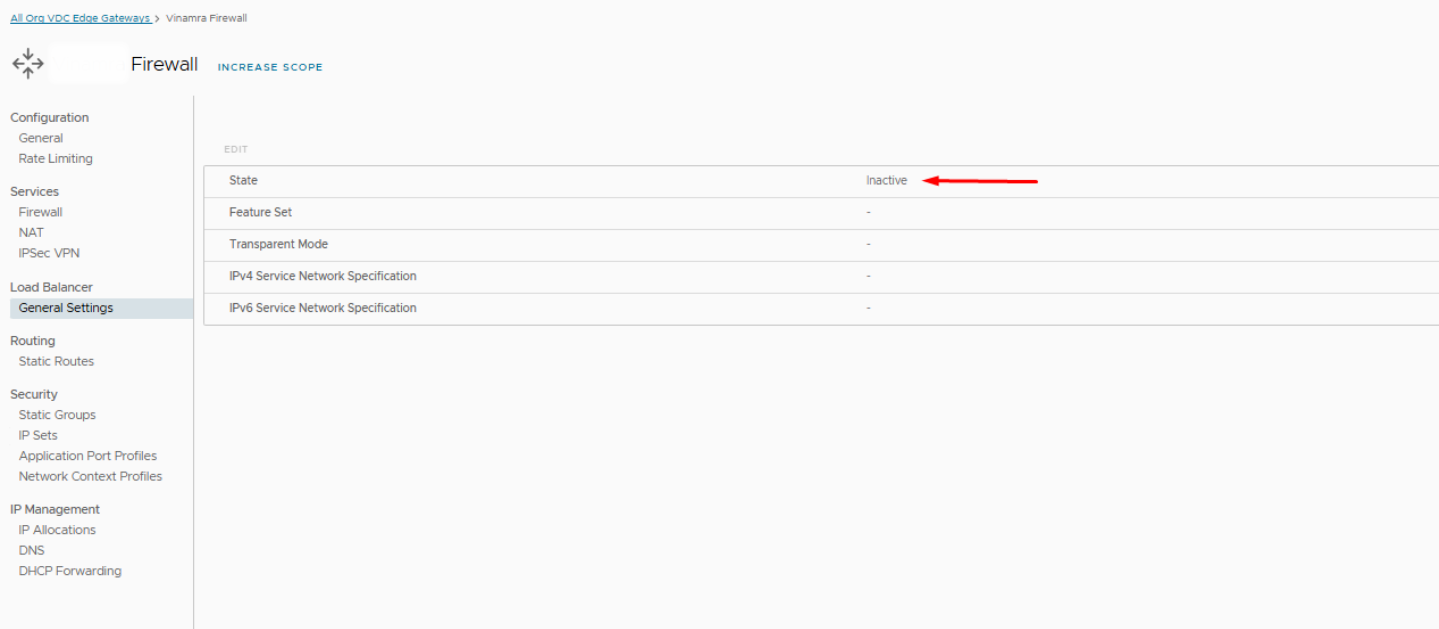


Fill in the required details and **NAT action** you wish to configure.

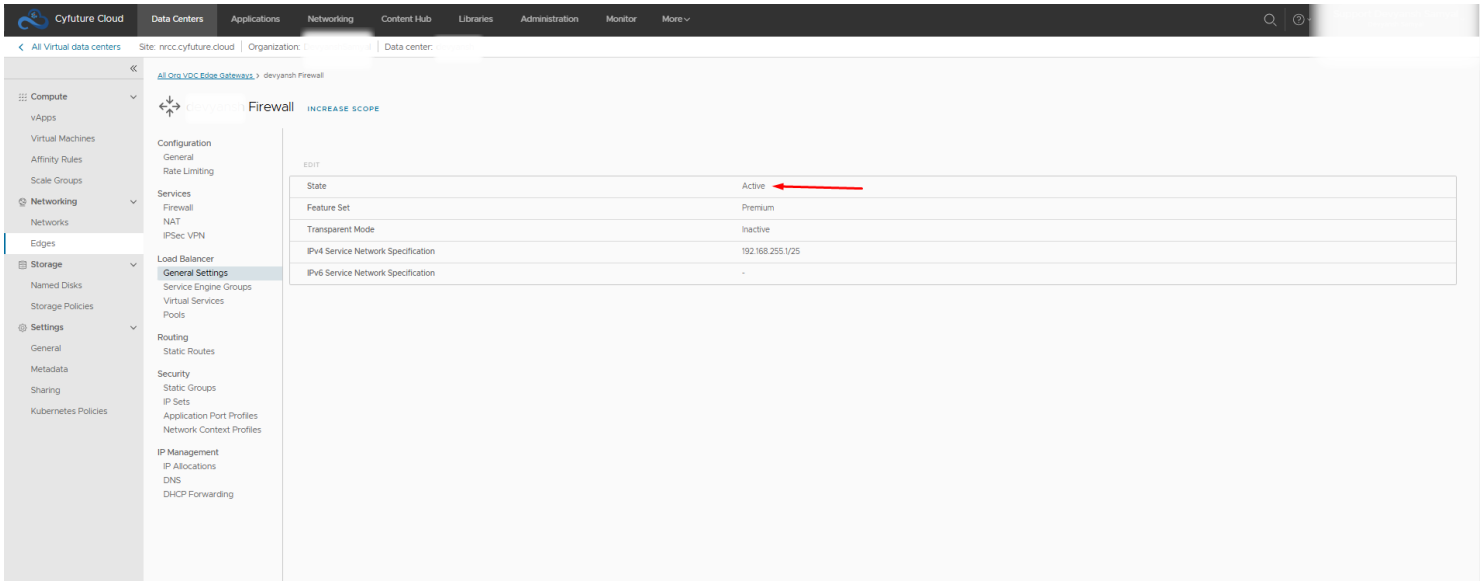


Step 4: Navigate to Load balancer service.

Now click on the **General settings** under **load Balancer** menu, by default the state of the Load balancer is **Inactive**.

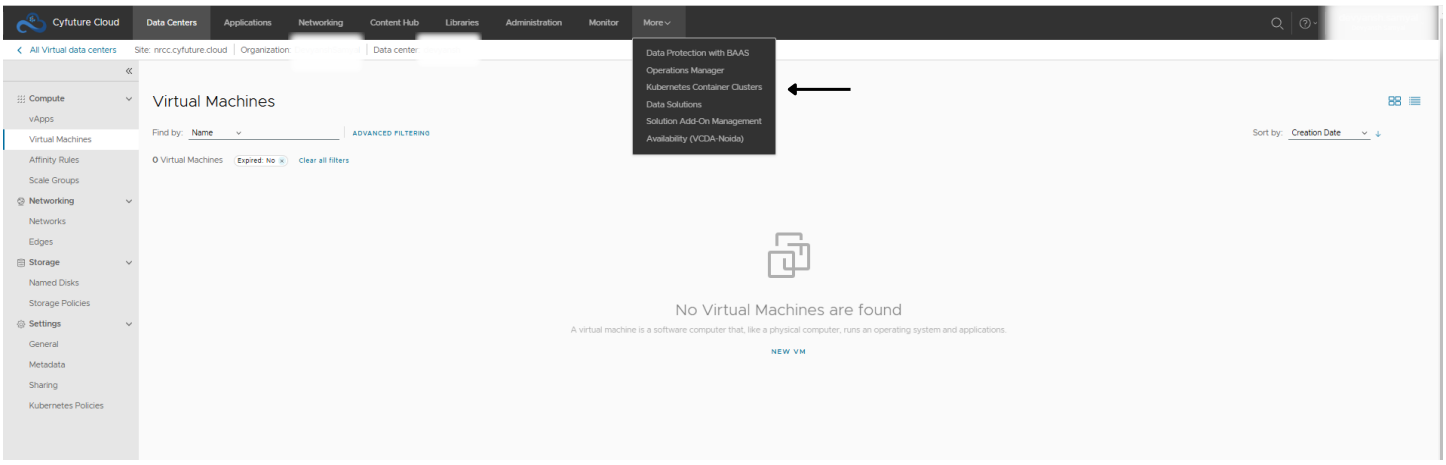


NOTE: You will have to generate a support ticket to activate the Load balancer services.

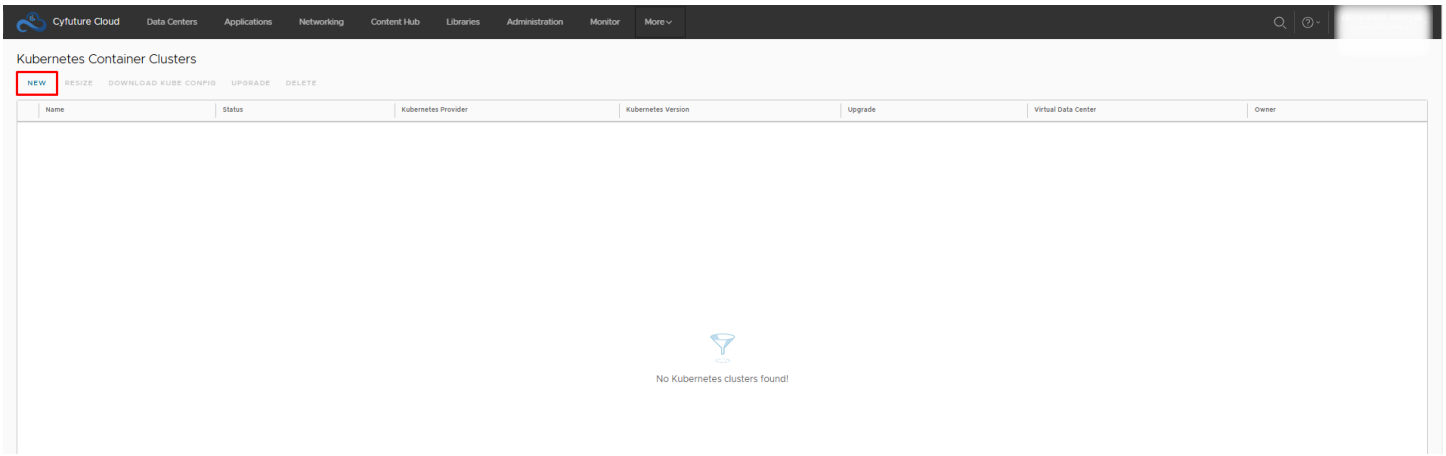


Now, you are ready to start configuring your Kubernetes Cluster.

Step 5: Navigate to the Kubernetes Container Clusters service from the more option.



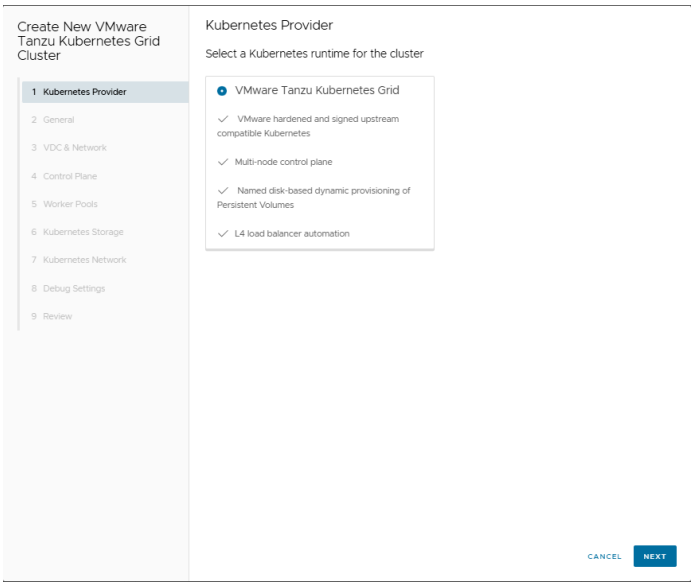
Click on the service and you will find the dashboard for all Kubernetes Container Clusters. Click on **New** to create a new Cluster.



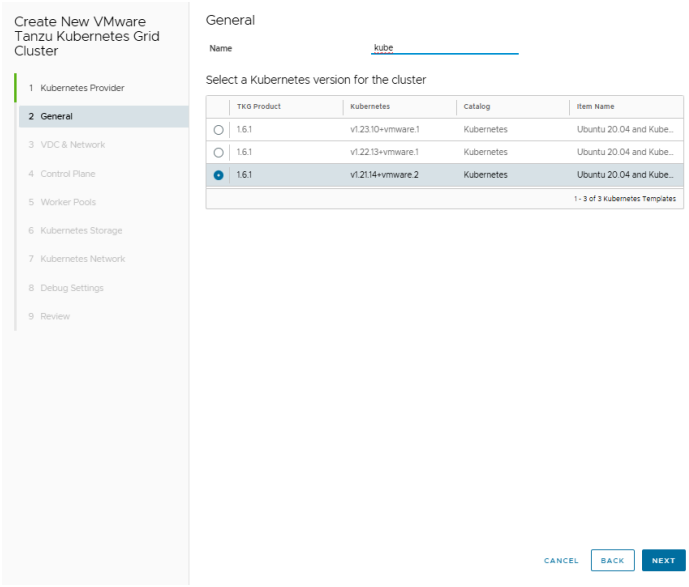
Step 6: Provide details for your Kubernetes Cluster.

A menu will appear and will prompt you to enter the details for your cluster such as Kubernetes version, number of nodes, disk policy etc.

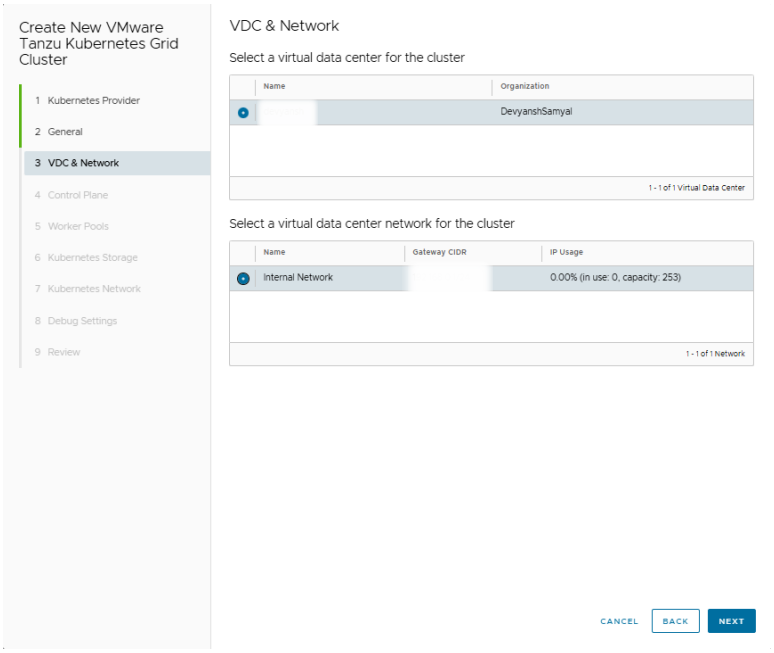
Start by selecting the VMware Tanzu Kubernetes Grid. Click Next.



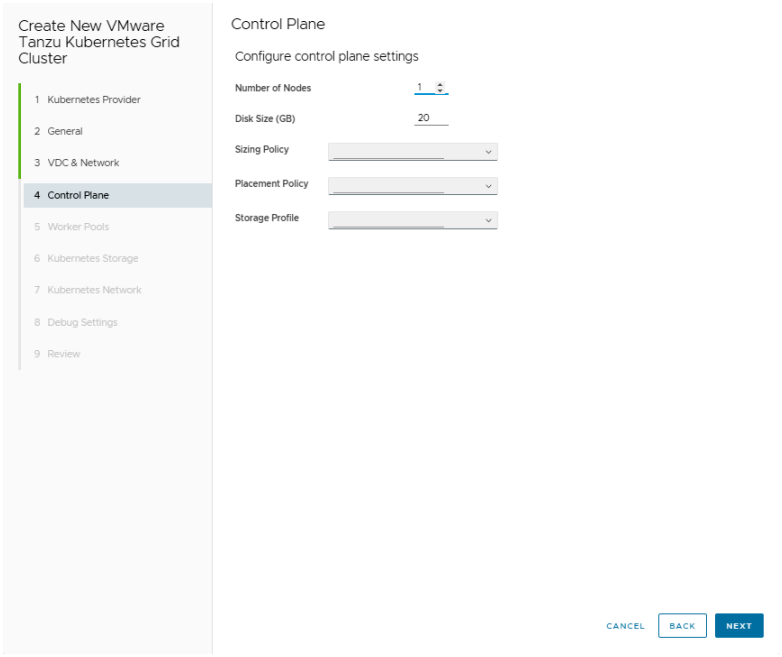
Now, provide a **name** for your cluster and select the **Kubernetes version** you want to use.



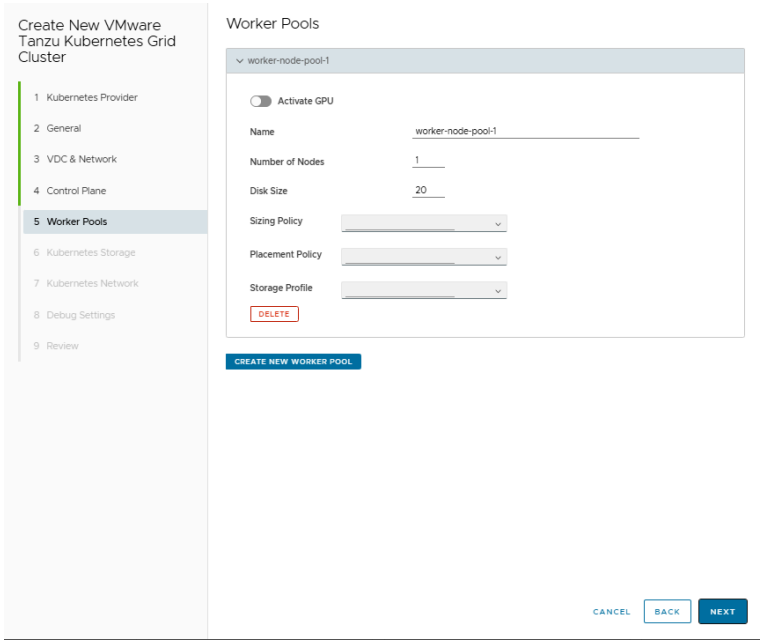
After you've given your cluster a name, select the **VDC** and the **internal network** for your cluster from the available options.



Now, enter configuration details like number of nodes, disk size, storage profile etc, for your **master node**, or control plane.

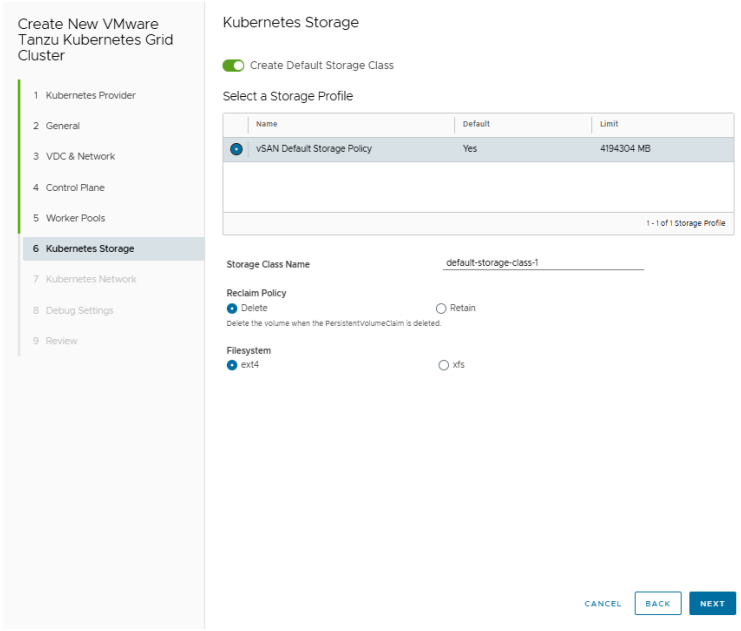


Click on Next. Now enter the configuration details for your **worker nodes.**

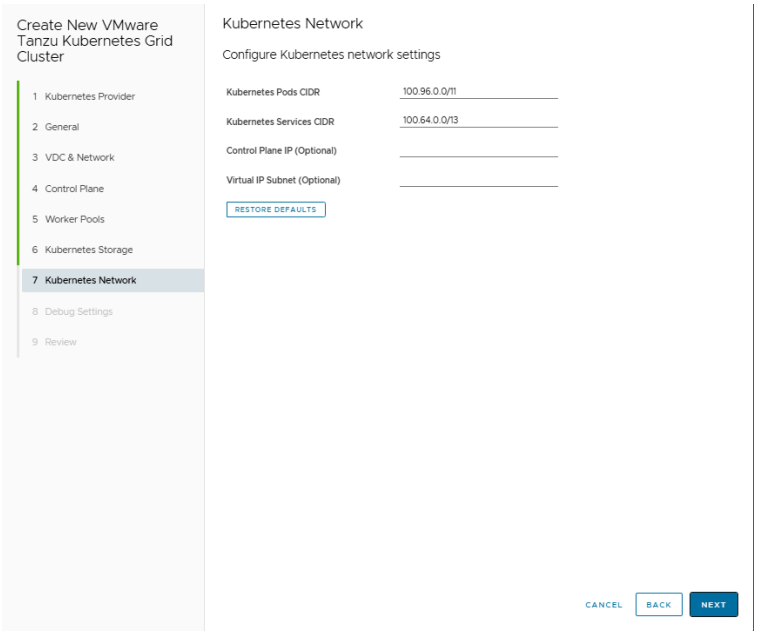


Notice you can create **Worker pools** to have multiple worker nodes with similar configuration.

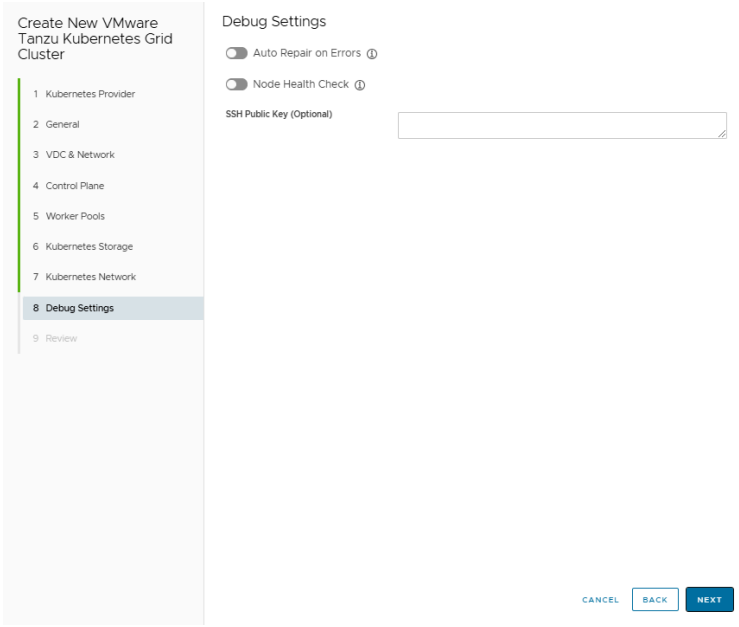
After you've provided details for nodes in your Kubernetes cluster, it is now time to select the **storage policy** and **profile**. Select from the available options according to your needs.



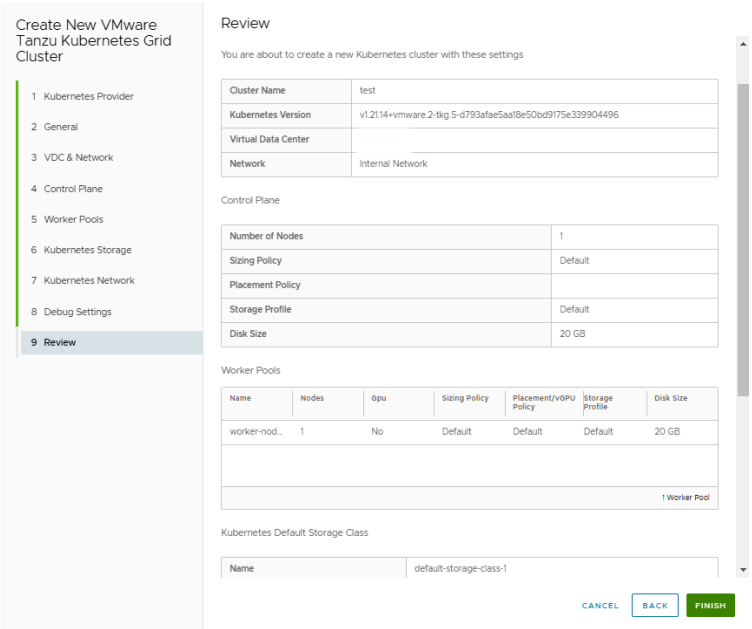
Configure your Network settings by providing **CIDR** values for your pods and services.



Now you have the option to enable Auto Repair and Node Health check services. These services allows to check the performance of the nodes and will automatically create a replica node in case one or more of your nodes fail or throws an error.

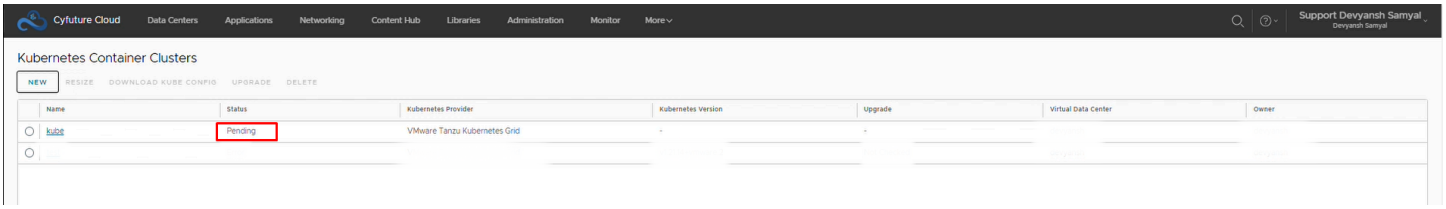


After you've entered all details, a Review prompt will appear. Review all the configuration details entered click on Finish.

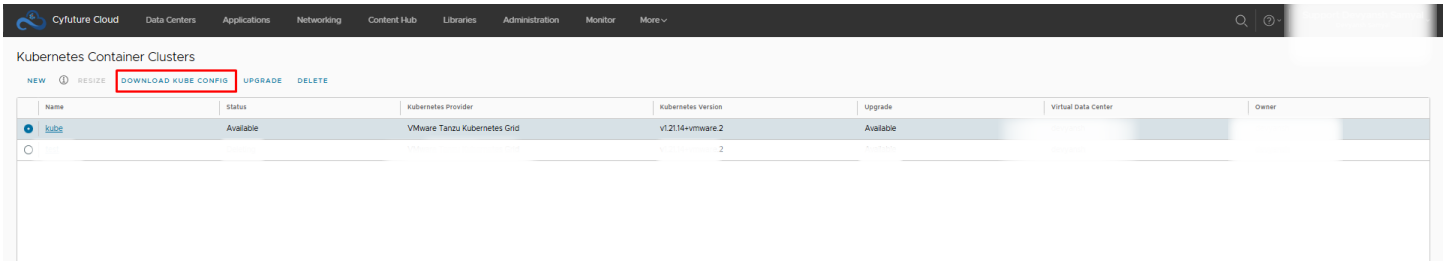


Step 7: Wait for your cluster to create.

The cluster will generally take between 10-15 mins to create after which it is ready to use.



Once the cluster is ready and you wish to export it for third party use, click on **Download Kube Config** to download the configuration of your cluster.



You have successfully created your own Kubernetes Cluster using Cyfuture Cloud by following the above mentioned steps.