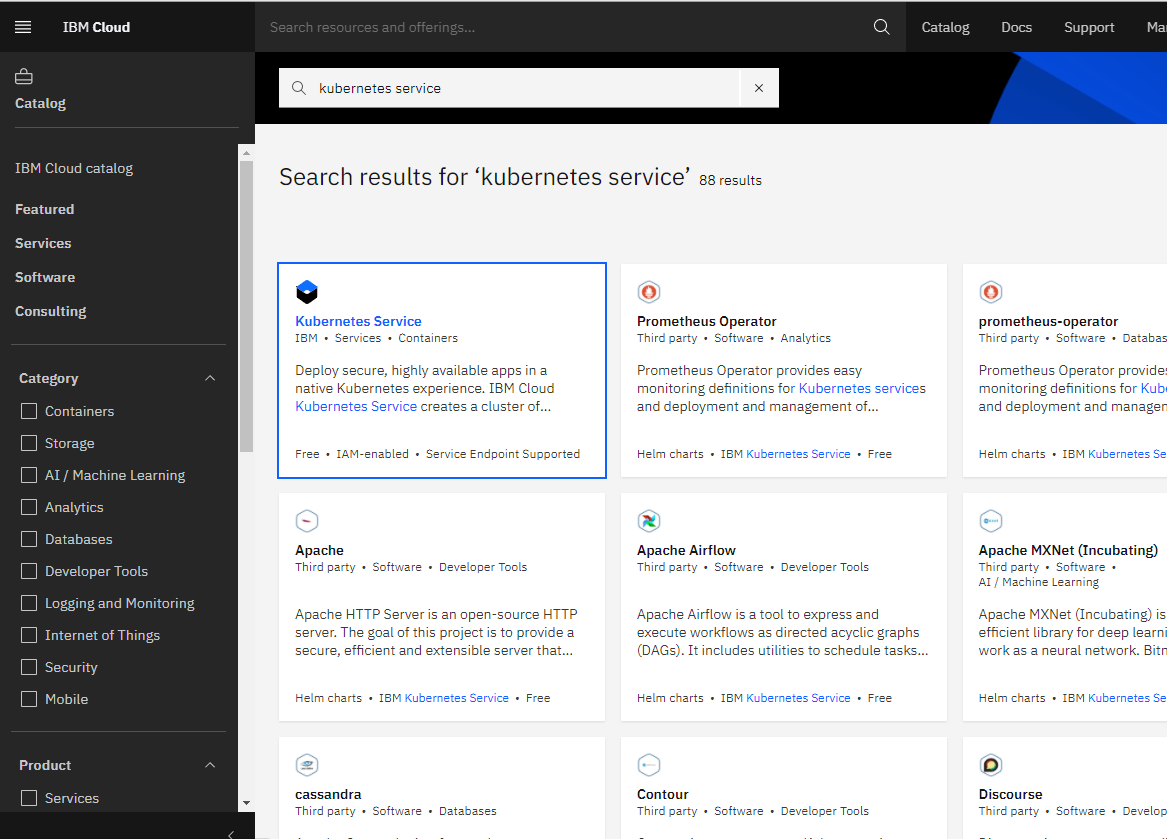
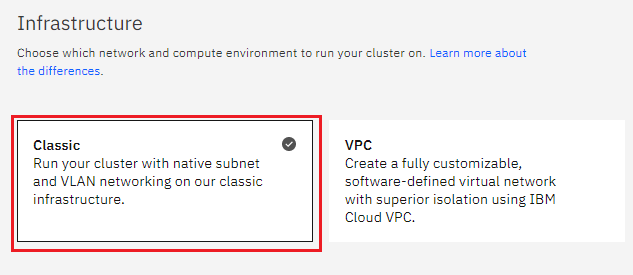
# **Installing Node Exporter on IBM Cloud**

**Step 1 provision Kubernetes Cluster**

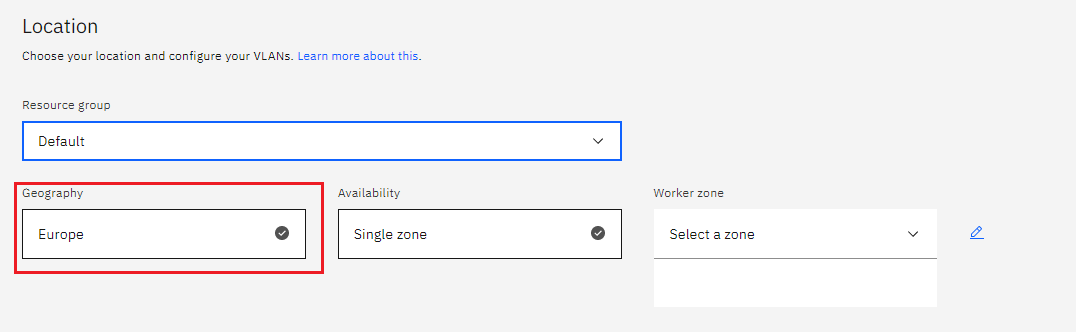
* Click the **Catalog** button on the top
* Select **Service** from the **Catalog**
* Search for **Kubernetes Service** and click on it



* You are now at the Kubernetes deployment page. You need to specify some details about the cluster
* Choose a plan **standard** or **free** , the free plan only has one worker node and no subnet, to provision a standard cluster, you will need to upgrade your account to Pay-As-You-Go
* To upgrade to a Pay-As-You-Go account, complete the following steps:
* In the console, go to Manage > Account.
* Select Account settings; and click Add credit card.
* Enter your payment information, click Next, and submit your information
* Choose **classic** or **VPC** , read the docs and choose the most suitable type for yourself



* Now choose your location settings,
* Choose **Geography** (continent)



* + Choose Single or Multizone, in single zone your data is only kept in on datacenter, on the

other hand with Multizone it is distributed to multiple zones, thus safer in an unforeseen

zone failure

* If you wish to use Multizone please set up your account with[VRF
* If at your current location selection, there is no available Virtual LAN, a new Vlan will be created for you
* Choose a Worker node setup or use the preselected one, set Worker node amount per zone
* Choose **Master Service Endpoint** , In VRF-enabled accounts, you can choose private-only to make your master accessible on the private network or via VPN tunnel. Choose public-only to make your master publicly accessible. When you have a VRF-enabled account, your cluster is set up by default to use both private and public endpoints.  
  Give desired **tags** to your cluster, for more information visit tags
* Click **create**  
  • Wait for your cluster to be provisioned  
  • Your cluster is ready for usage

**Step 2 Deploy IBM Cloud Block Storage plug-in**

The Block Storage plug-in is a persistent, high-performance iSCSI storage that you can add to your apps by using Kubernetes Persistent Volumes (PVs).

* Click the **Catalog** button on the top
* Select **Software** from the catalog
* Search for **IBM Cloud Block Storage plug-in** and click on it  
  • On the application page Click in the dot next to the cluster, you wish to use  
  • Click on Enter or Select Namespace and choose the default Namespace or use a custom one (if you get error please wait 30 minutes for the cluster to finalize)
* Give a **name** to this workspace
* Click **install** and wait for the deployment

### **Step 3 Node exporter**

The [node exporter](https://github.com/prometheus/node_exporter) can read system-level statistics about bare-metal nodes or virtual machines and export them for Prometheus.

Using a [DaemonSet](http://kubernetes.io/docs/admin/daemons/), Kubernetes can run one node exporter per cluster node, and expose the node exporter as a service.

Download the [node exporter daemon set manifest](https://coreos.com/assets/blog/promk8s/node-exporter.yaml) and deploy it:

$ kubectl create -f node-exporter.yaml

daemonset "node-exporter" created

Verify that four node exporter pods have been started:

$ kubectl **get** pods

NAME READY STATUS RESTARTS AGE

node-exporter-4r4vq 1/1 Running 0 1m

node-exporter-6n2ah 1/1 Running 0 1m

node-exporter-9x57u 1/1 *Running* 0 1m

node-exporter-dk99a 1/1 Running 0 1m

prometheus-1189099554-6ah3y 1/1 Running 0 1h

**Introduction**

This chart bootstraps a prometheus [node exporter](http://github.com/prometheus/node_exporter) deployment on a [Kubernetes](http://kubernetes.io/) cluster using the [Helm](https://helm.sh/) package manager.

**Installing the Chart**

To install the chart with the release name my-release:

$ helm install --name my-release stable/prometheus-node-exporter

The command deploys node exporter on the Kubernetes cluster in the default configuration. The [configuration](https://github.com/helm/charts/tree/master/stable/prometheus-node-exporter#configuration) section lists the parameters that can be configured during installation.

**Uninstalling the Chart**

To uninstall/delete the *my-release* deployment:

$ helm delete my-release

The command removes all the Kubernetes components associated with the chart and deletes the release.

**Upgrading Chart**

# Helm 3 or 2

$ helm upgrade [RELEASE\_NAME] [CHART] --install

## Configuring

# Helm 2

$ helm inspect values prometheus-community/prometheus-node-exporter

# Helm 3

$ helm show values prometheus-community/prometheus-node-exporter