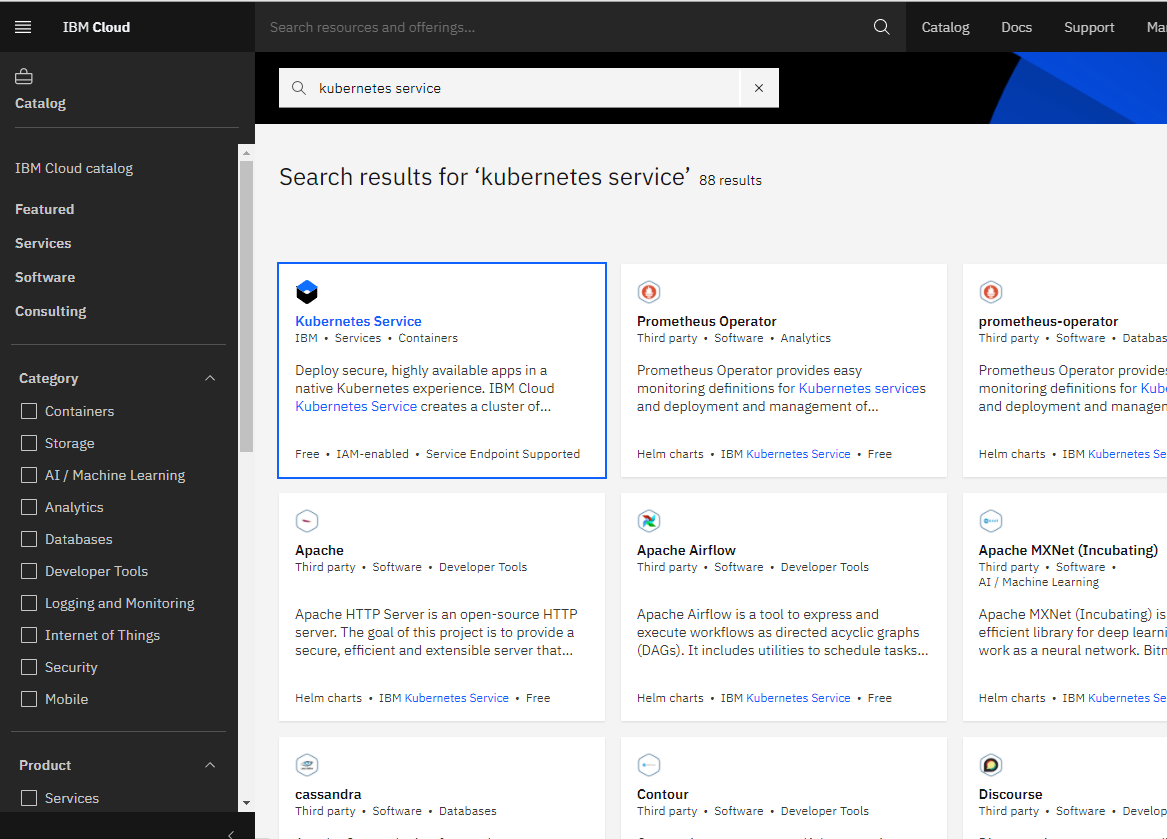
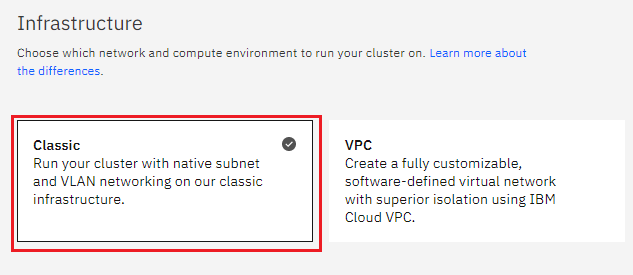
# Step 1 provision Kubernetes Cluster

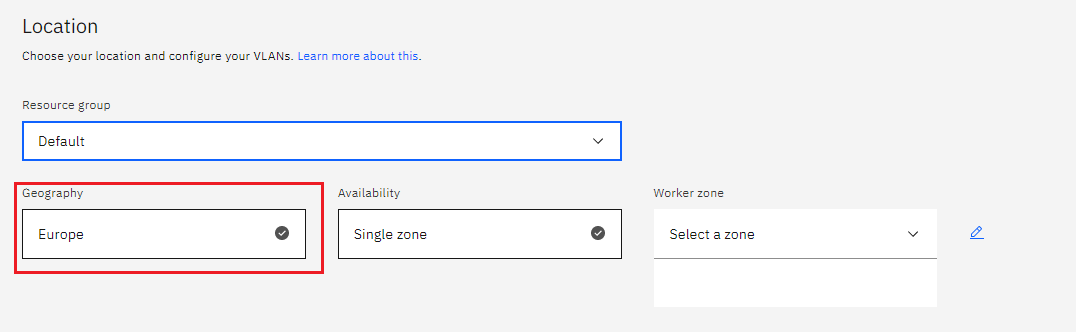
* Click the **Catalog** button on the top
* Select **Service** from the catalog
* Search for **Kubernetes Service** and click on it



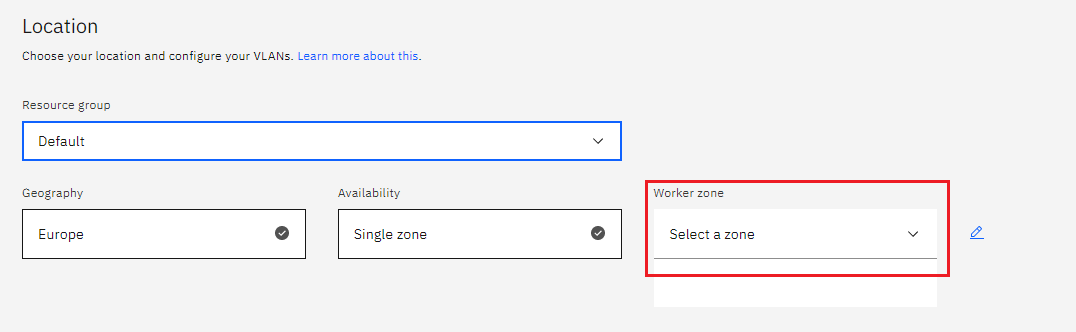
* You are now at the Kubernetes deployment page, you need to specify some details about the cluster
* Choose a plan **standard** or **free**, the free plan only has one worker node and no subnet, to provision a standard cluster, you will need to upgrade you account to Pay-As-You-Go
* To upgrade to a 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](https://cloud.ibm.com/docs/containers?topic=containers-infrastructure_providers) and choose the most suitable type for yourself



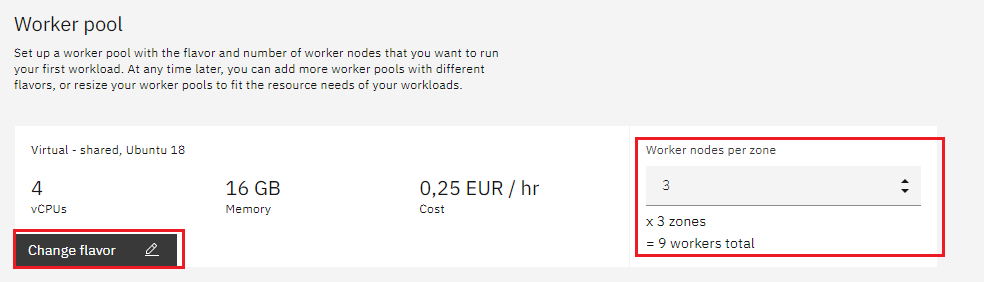
* Now choose your location settings, for more information please visit [Locations](https://cloud.ibm.com/docs/containers?topic=containers-regions-and-zones#zones)
* Choose **Geography** (continent)



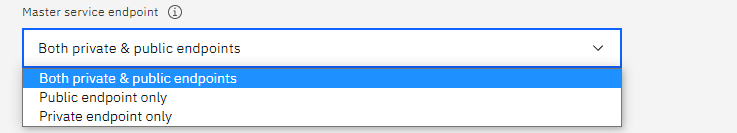
* Choose Single or Multizone, in single zone your data is only kept in on datacentre, on the other hand with Multizone it is distributed to multiple zones, thus safer in an unforseen zone failure



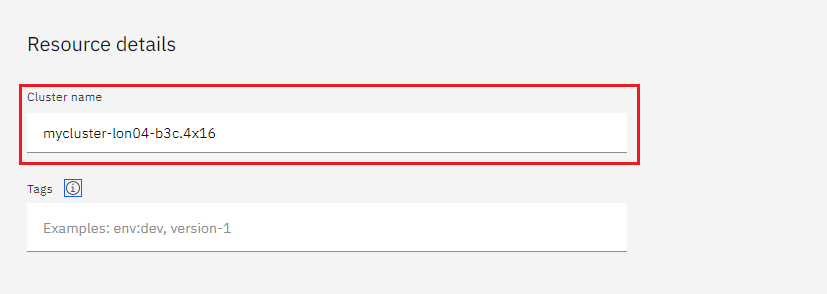
* If you wish to use Multizone please set up your account with [VRF](https://cloud.ibm.com/docs/dl?topic=dl-overview-of-virtual-routing-and-forwarding-vrf-on-ibm-cloud) or [enable Vlan spanning](https://cloud.ibm.com/docs/vlans?topic=vlans-vlan-spanning#vlan-spanning)
* If at your current location selection, 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



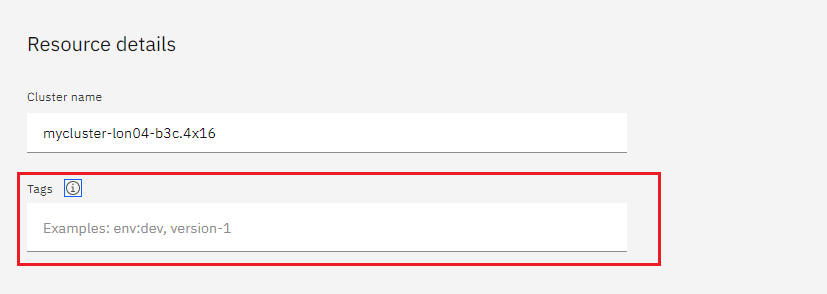
* Choose **Master Service Endpoint**, In VRF-enabled accounts, you can choose private-only to make your master accessible on the private network or via VPN tunnel. Choose public-only to make your master publicly accessible. When you have a VRF-enabled account, your cluster is set up by default to use both private and public endpoints. For more information visit [endpoints](https://cloud.ibm.com/docs/account?topic=account-service-endpoints-overview).



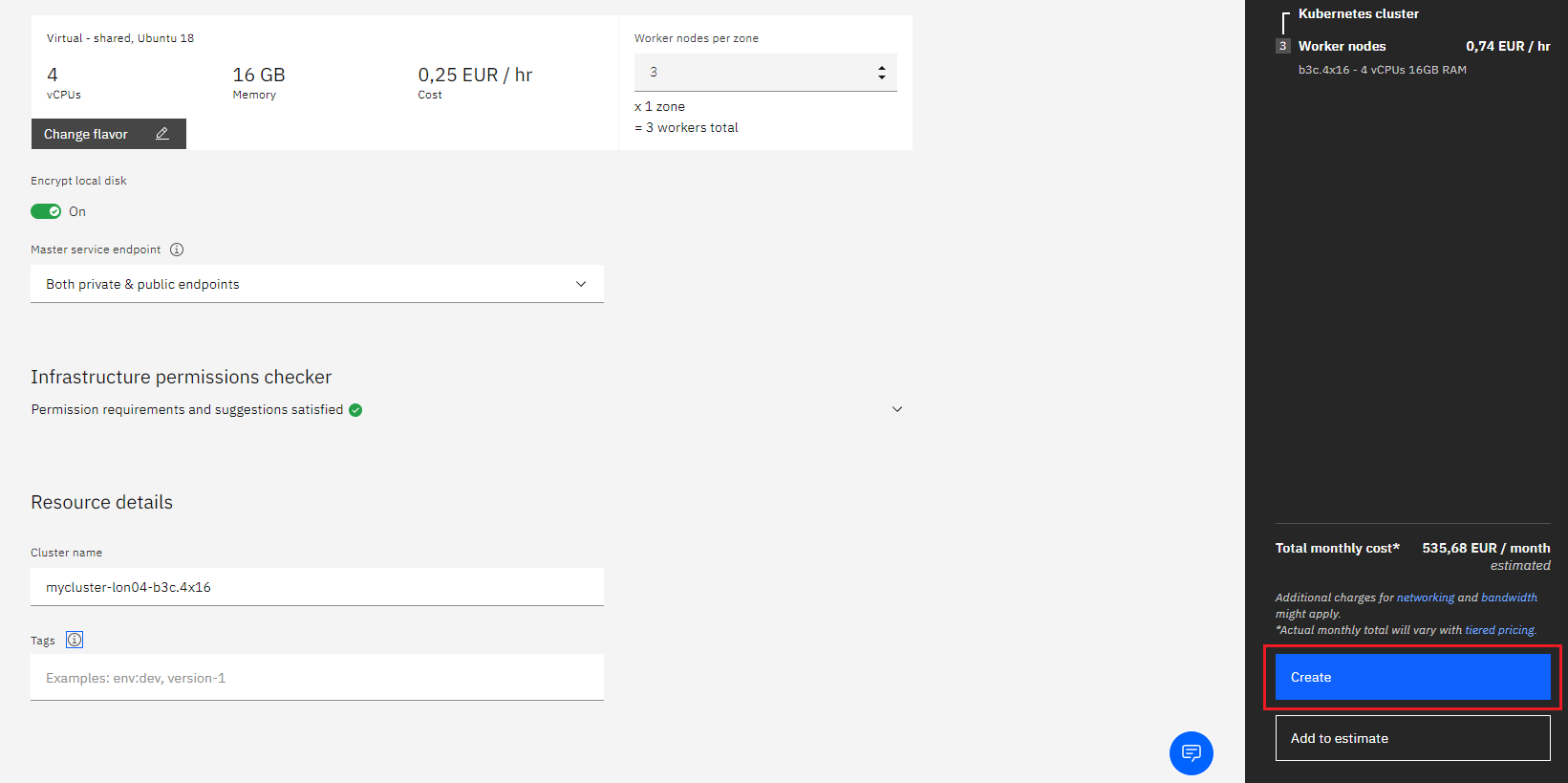
* Give cluster a name



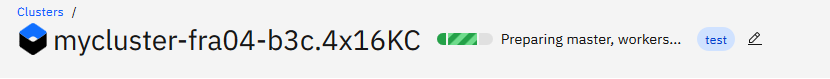
* Give desired **tags** to your cluster, for more information visit [tags](https://cloud.ibm.com/docs/account?topic=account-tag)



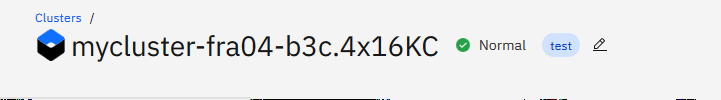
* Click **create**



* Wait for you cluster to be provisioned



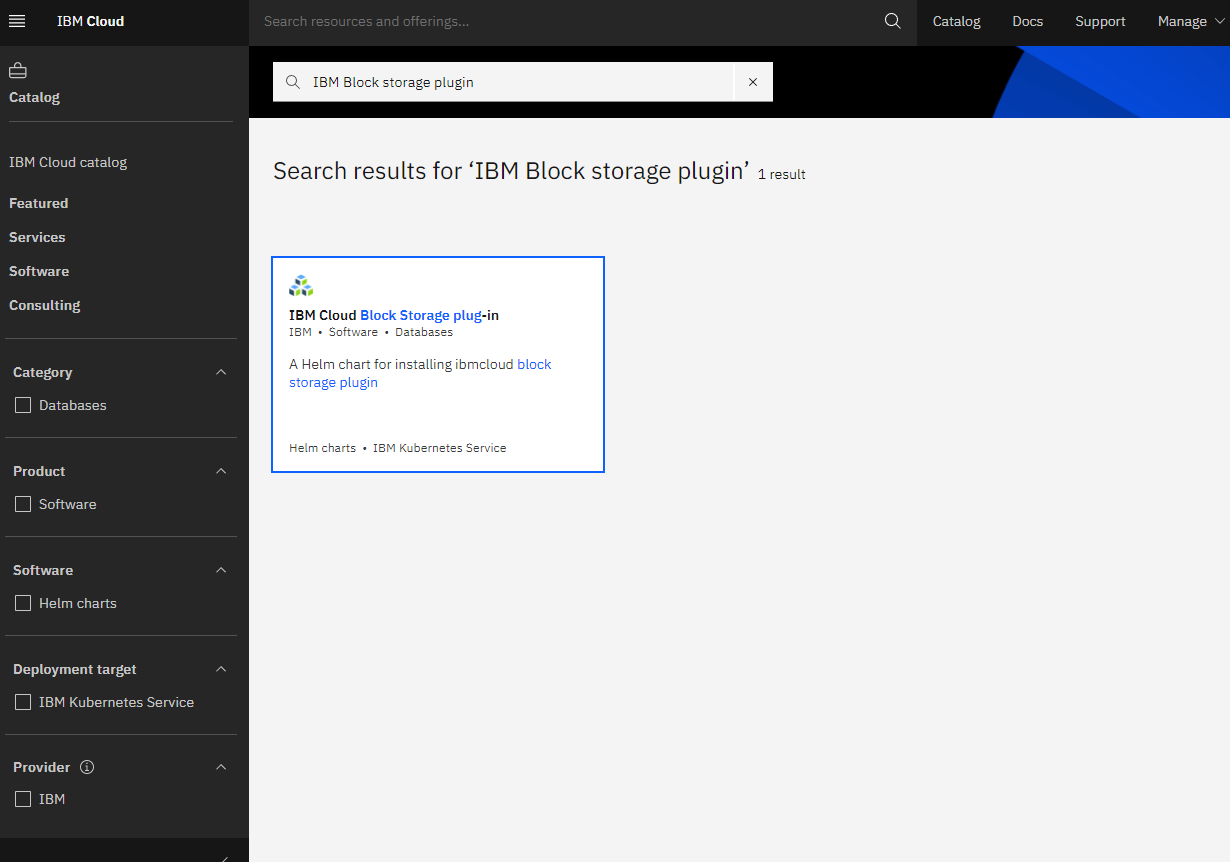
* Your cluster is ready for usage



# 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)

Graphical user interface, text, application

Description automatically generated

* Give a **name** to this workspace
* Click **install** and wait for the deployment

A picture containing background pattern

Description automatically generated