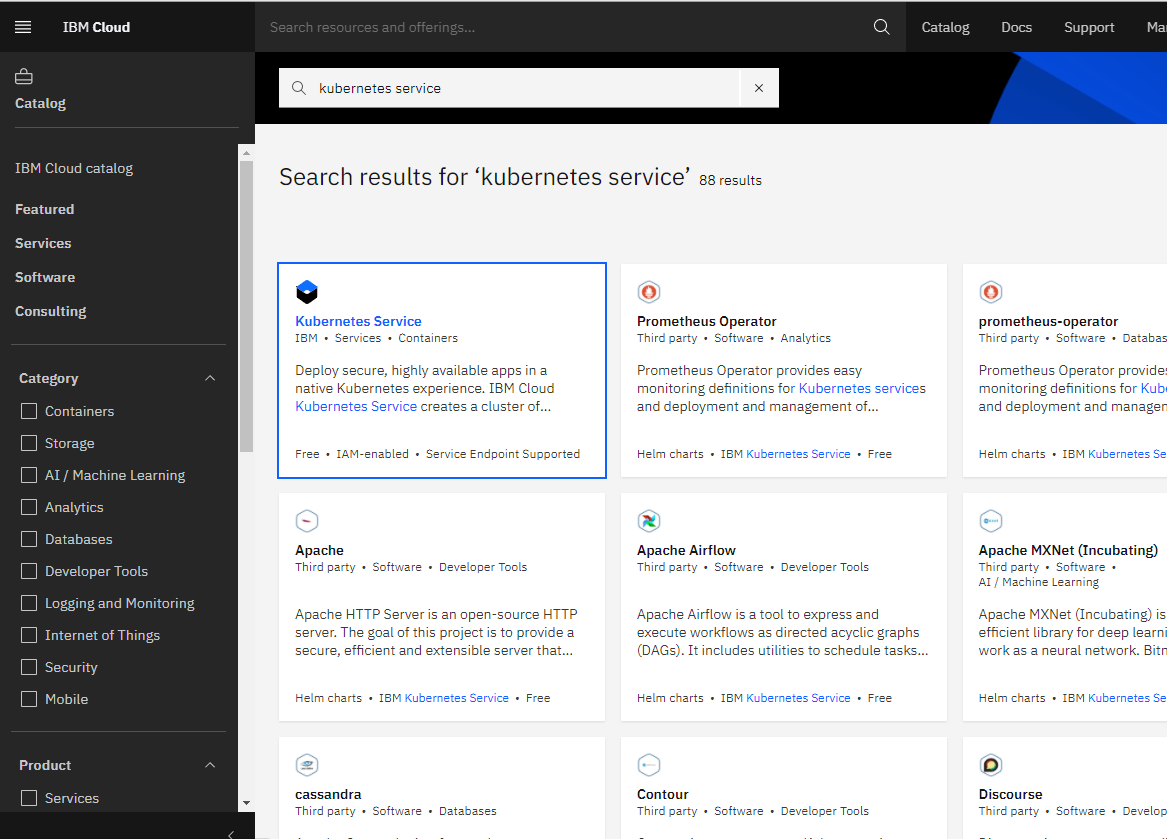
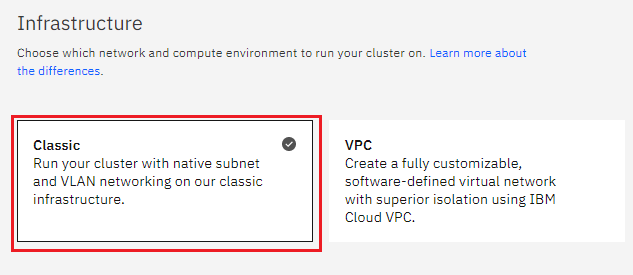
**Installing Phabricator on IBM Cloud**

**Step 1 provision Kubernetes Cluster**

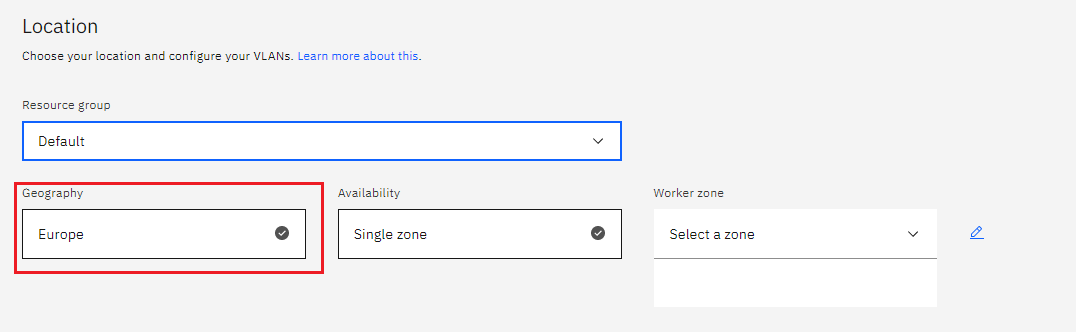
* Click the **Catalog** button on the top
* Select **Service** from the **Catalog**
* Search for **Kubernetes Service** and click on it



* 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 Installing Phabricator**

This chart bootstraps a [Phabricator](https://github.com/bitnami/bitnami-docker-phabricator) deployment on a [Kubernetes](http://kubernetes.io) cluster using the [Helm](https://helm.sh) package manager.It also packages the [Bitnami MariaDB chart](https://github.com/kubernetes/charts/tree/master/stable/mariadb) which is required for bootstrapping a MariaDB deployment for the database requirements of the Phabricator application.Bitnami charts can be used with [Kubeapps](https://kubeapps.com/) for deployment and management of Helm Charts in clusters.

## Prerequisites

* Kubernetes 1.12+
* Helm 2.11+ or Helm 3.0-beta3+
* PV provisioner support in the underlying infrastructure
* ReadWriteMany volumes for deployment scaling

## Installing the Chart

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

*$ helm install my-release bitnami/phabricator*

The command deploys Phabricator on the Kubernetes cluster in the default configuration. The [Parameters](https://hub.kubeapps.com/#parameters) section lists the parameters that can be configured during installation.

**To reserve a public IP address on GKE:**

*$ gcloud compute addresses create phabricator-public-ip*

The reserved IP address can be associated to the Phabricator service by specifying it as the value of the phabricatorLoadBalancerIP parameter while installing the chart.

Specify each parameter using the --set key=value[,key=value] argument to helm install. For example,

*$ helm install my-release \--set* *phabricatorUsername=admin,phabricatorPassword=password,mariadb.mariadbRootPassword=secretpassword \bitnami/phabricator*

The above command sets the Phabricator administrator account username and password to admin and password respectively. Additionally, it sets the MariaDB root user password to secretpassword.

Alternatively, a YAML file that specifies the values for the above parameters can be provided while installing the chart. For example,

*$ helm install my-release -f values.yaml bitnami/phabricator*

**Persistence**

The [Bitnami Phabricator](https://github.com/bitnami/bitnami-docker-phabricator) image stores the Phabricator data and configurations at the /bitnami/phabricator path of the container.

Persistent Volume Claims are used to keep the data across deployments. There is a [known issue](https://github.com/kubernetes/kubernetes/issues/39178) in Kubernetes Clusters with EBS in different availability zones. Ensure your cluster is configured properly to create Volumes in the same availability zone where the nodes are running. Kuberentes 1.12 solved this issue with the [Volume Binding Mode](https://kubernetes.io/docs/concepts/storage/storage-classes/#volume-binding-mode).

See the [Parameters](https://cloud.ibm.com/catalog/content/phabricator#parameters) section to configure the PVC or to disable persistence.

**Setting Pod's affinity**

This chart allows you to set your custom affinity using the affinity paremeter. Find more infomation about Pod's affinity in the [kubernetes documentation](https://kubernetes.io/docs/concepts/configuration/assign-pod-node/#affinity-and-anti-affinity).

As an alternative, +you can use of the preset configurations for pod affinity, pod anti-affinity, and node affinity available at the [bitnami/common](https://github.com/bitnami/charts/tree/master/bitnami/common#affinities) chart. To do so, set the podAffinityPreset, podAntiAffinityPreset, or nodeAffinityPreset parameters