March 15th, 2023.

Google Cloud Provider: Kubernetes

Creating a Service Object of type: Cluster IP

Step 1: Create standard K8s cluster and connect to it.

Graphical user interface, text, application, email

Description automatically generated

2. Using the: kubectl --help command to just list the available commands on Kubernetes.

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3. Using the get pods command before creating replicaset to show that there were no prior pods running or created.

4. Create a replica set using raw yaml file from my github repo.

Shape

Description automatically generated with medium confidence

5. Use the get pods command to show that pods have been create and are running.

6. “-o wide” command used for more detailed information on the replicasets created

Graphical user interface, text

Description automatically generated

7. Create service using raw yaml file from my github repo.

Shape

Description automatically generated with medium confidence

8. Kubectl get service to show “mysvc1” has been created with a clusterIP address.

Graphical user interface, text

Description automatically generated

9. Using the describe command tagging “mysvc1” to get details of the service created.

Text

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Text

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10. Using this raw yaml file to create a database pod -ubuntu. To use to access the nginx replicaset created.

Graphical user interface, application, Teams

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Graphical user interface, text

Description automatically generated

11. Command to show new pod ubuntu has been created.

Graphical user interface, text

Description automatically generated

12. Using the kubectl exec command to enter the ubuntu pod CLI.

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13. In the ubuntu pod: use the apt-get command to update & install curl to be able to ping the replicaset clusterIP.

A screenshot of a computer

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14. Using the “curl” command ping the ClusterIP address and the nginx pod port number to access the file with the nginx pod. i.e: ClusterIP:portnumber.

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15. Type “exit” to come out of ubuntu pod.

Text

Description automatically generated



Done.

That is how to create a Service Object for type ClusterIP which allows pods within a cluster access each other using its ClusterIP created by giving it a service using the yaml file and the pods port number.