Curl Status from within a local Pod

Thursday, 7 July 2022 1:52 PM

Purpose

Show that the status page for the cluedin server can be accessed by another internal pod and therefore certain functions are working fine within the cluster as part of troubleshooting.

Method

Get cluedin server internal name for the service on port 9000

in powershell

```
PS > kubectl -n cluedin get services | FindStr 9000
cluedin-server                    ClusterIP      10.0.68.113    <none>
9000/TCP,9001/TCP,9003/TCP,9006/TCP,9007/TCP,9013/TCP   7d10h
```

In this case `cluedin-server` is the service name that is running on port 9000, yours will vary depending on what names were given during creation of the cluster.

Create interactive shell session with a new temporary debug pod

Use kubectl to create debug alpine pod (assumes you are in the right context etc) which will be in the cluedin namespace and local to the other pods from a networking point of view

```
kubectl -n cluedin run -i --tty --rm debug --image=alpine --restart=Never
```

You are now connected to the pod and can run commands

Install curl and jq and run some troubleshooting commands

in the pod interactive shell session

```
/ # apk --no-cache add curl jq
```

test nslookup is working

```
/ # nslookup cluedin-server
Server:         10.0.0.10
Address:        10.0.0.10:53

** server can't find cluedin-server.svc.cluster.local: NXDOMAIN

Name:   cluedin-server.cluedin.svc.cluster.local
Address: 10.0.233.143
```

test access to cluedin server - i.e. a liveness health check

```
/ # curl http://cluedin-server:9000/health/liveness && echo
OK
```

test cluedin server status - expect all ServiceStatus to be Green… otherwise you need to fix your cluster before continuing

```
/ # curl http://cluedin-server:9000/status | jq
```

```
{
  "ServiceStatus": "Green",
  "UpdatedDate": "2021-12-15T22:49:06.9713766+00:00",
  "DataShards": [
    {
```

```
      "Type": "Blob",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Configuration",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Data",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Search",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Graph",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Metrics",
      "ServiceStatus": "Green"
    }
  ],
  "Components": [
    {
      "Type": "Api",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Authentication",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Crawling",
      "ServiceStatus": "Green"
    },
    {
      "Type": "Scheduling",
      "ServiceStatus": "Green"
    },
    {
      "Type": "ServiceBus",
      "ServiceStatus": "Green"
    },
    {
      "Type": "System",
      "ServiceStatus": "Green"
    }
  ]
}
/ #
```