kubernetes

Kubernetes: Demo Kubeless

- First Verify the Kubernetes Cluster Health.
- Check if RBAC is enabled or not.
- Install the Kubeless on Kubernetes Cluster.

- **Sample Kubeless Function.**

```
def hello(event, context):
  print event
  return event['data']
```

- Functions in Kubeless have the same format regardless of the language of the function or the event source.
- Receives an object **event** as their first parameter. This parameter includes all the information regarding the event source. In particular, the key 'data' should contain the body of the function request.
- Receives a second object **context** with general information about the function.
- Returns a **string/objec**t that will be used as response for the caller.

- User needs to save the Above Code file, and can deploy that with below command:
  kubeless function deploy hello --runtime python2.7 --from-file hello.py --handler test.hello
- hello: This is the name of the function we want to deploy
- --runtime python2.7: This is the runtime we want to use to run our function. Available runtimes can be found executing.
  kubeless get-server-config
- --from-file hello.py: This is the file containing the function code. It is supported to specify a zip file as far as it doesn't exceed the maximum size for an etcd entry (1 MB).
- --handler test.hello: This specifies the file and the exposed function that will be used when receiving requests.

- Describe the Function.
  kubeless function describe <function-name>

- Call the Function via Kubeless CLI.
  kubeless function call hello --data 'Hello Kubeless!'

- List Functions in Kubeless.
  kubectl get functions
  kubeless function ls

Will see you in Next Lecture…

See you in next lecture …