Prototype of Service Dependancy Monitor

Each microoservice is dependant on another microservice in the namespace. The microservices are contacting each other using the service name. For example, if a microservice interaction-layer having a depenancy on marketdata-service in master namespace, it contacts the service via marketdata-service.master.svc.cluster.local DNS entry which is resolved by Core DNS. If the market data service is not reachable, then we need to restart the pod associated with marketdata-service. We can probe

Steps(Python Kubernetes Implementation):

1. START

2. Get all the namespaces in the cluster(excpet kube-system, kube-public, kube-node-lease, default and velero). We use python kubernetes API client.CoreV1Api().list\_namespaces() function for this purpose.

3. Start Loop

4. Iterate for all the services namespace wise using the namespace name fetched from Steps(2)

5.