ThoughtWorks[®]

DAEMONSETS

Rise of the Containers Workshop



Problem Statement

- Run one (and only one) pod on every node
- Real world scenarios:
 - logs collection daemon on every node, such as fluentd or logstash
 - node monitoring daemon on every node

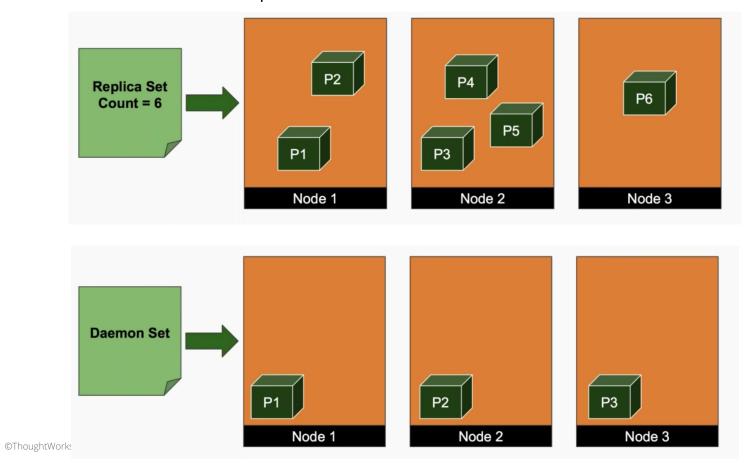
Solution: Daemon Sets

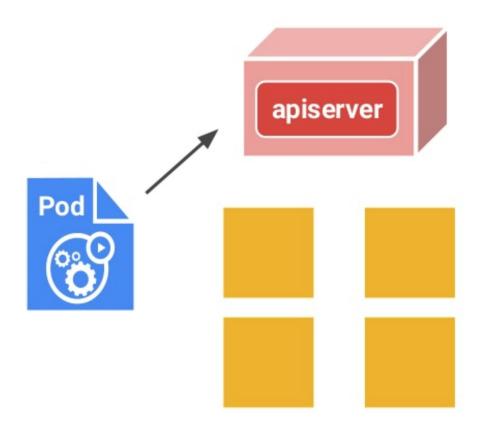
- Ensures every single node in the cluster runs the same pod resource
- When a node is added, a new pod will be started automatically
- When a node is removed, the pod will NOT be rescheduled on another node

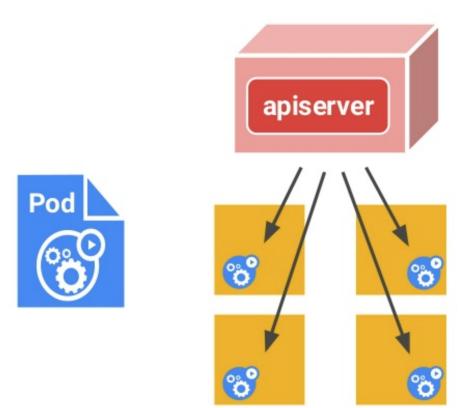
Total number pods in the DaemonSet == No. of nodes in the cluster

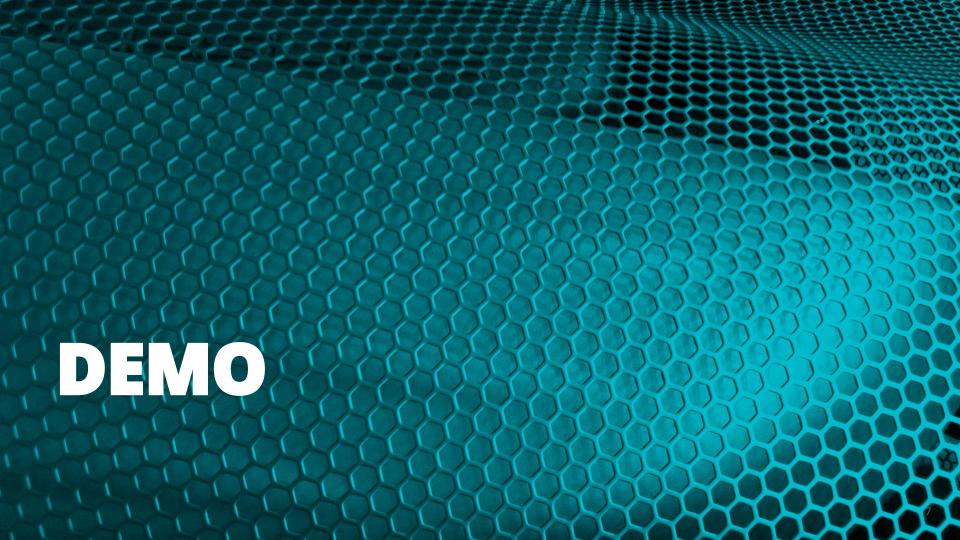
```
apiVersion: extensions/v1
kind: DaemonSet
spec:
    template:
    spec:
    nodeSelector:
        app: datastore-node
    containers:
        image: kubernetes/sharded
    ports:
        - containerPort: 9042
```

DaemonSet vs ReplicaSet

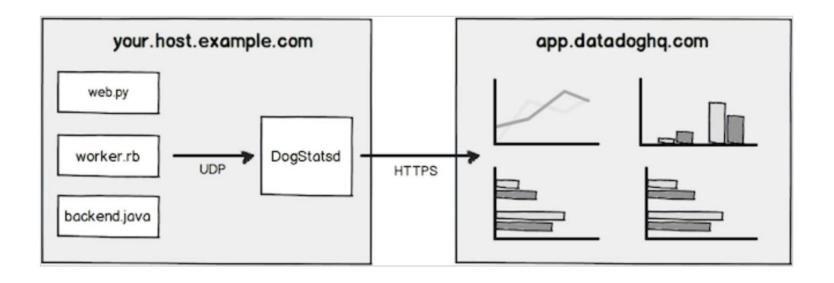








How Datadog Works?





- 1. Create Daemon Set and start datadog agent. Substitute your api key in config
- 2. Add custom metric for an endpoint using library: https://github.com/DataDog/java-dogstatsd-client
- 3. Create image and start Metadata service on K8s
- 4. Try to access the endpoint.
- 5. Checkout custom metric in datadog

THANKYOU

For questions or suggestions:

Girish Verma girishv@ThoughtWorks.com

ThoughtWorks®