Kubernetes Architecture

» Kubelet

Overview

Let's explore the `kubelet` !

Add the official kubernetes.io repository to your apt sources list and install `kubelet` .

```
cat <<EOF >/etc/apt/sources.list.d/kubernetes.list
deb http://apt.kubernetes.io/ kubernetes-xenial main
EOF
```

Update the package index.

```
apt-get update
```

Install the `kubelet` package.

```
apt-get install kubelet
```

View the current list of extremely large list of `kubelet` options.

```
./kubelet --help
```

Let's forget about these options for a moment and keep things simple.

Create a manifests directory.

```
mkdir ~/manifests
```

Let's drop a simple pod resource object manifest into the newly created directory.

```
cat > ~/manifests/pod.yaml <<EOF
apiVersion: v1
kind: Pod
metadata:
  name: nginx
spec:
  containers:
  - name: nginx
    image: nginx
    ports:
    - containerPort: 80
EOF
```

Start the `kubelet` only using the –pod-manifest-path flag.

We will throw the `kubelet` into the background and redirect its log files to `/dev/null` to avoid clutter.

```
kubelet --pod-manifest-path ~/manifests > /dev/null 2>&1 &
```

Using the `docker ps` you should now be able to see the `kubelet` generate three containers.

```
docker ps
```