

Sandbox Instance with All-In-One Image - no Load Balancer

Overview

In our steps for setting up a Yellowfin sandbox, Yellowfin runs on the Kubernetes cluster, with 6GB of allocated RAM.

Before you start, use the following table of information to choose between LoadBalancer and NodePort.

| Type | Description | Typical usage |
|--------------|--|---------------|
| LoadBalancer | This setting instructs Kubernetes to interact with a cloud provider to provision a load balancer to route traffic to the Yellowfin service. | Cloud |
| NodePort | Publish a port on the Kubernetes cluster that can be used to communicate with the Yellowfin instance. This setting can be used when an environment can't auto-provision load balancers. | On-premises |

See the official Kubernetes documentation on the service types of [LoadBalancer](#) and [NodePort](#) for more information.

In our example, we've instructed Kubernetes to deploy Yellowfin behind a load balancer using the **type: LoadBalancer** attribute in the service definition, but we've provided details for NodePort too.

To deploy a self-contained instance with these defaults, follow the steps below.

1. Ensure Kubernetes is running
2. Copy the following text and paste it into your preferred text editor:

```

---
### Yellowfin All in one Service ###
apiVersion: v1
kind: Service
metadata:
  name: yellowfin-all-in-one
spec:
  ports:
  - name: "web"
    port: 8080
    targetPort: 8080
  selector:
    app: yellowfin-all-in-one
  type: LoadBalancer
status:
  loadBalancer: {}
---
### Yellowfin All in one Deployment ###
apiVersion: apps/v1
kind: Deployment
metadata:
  namespace: default
  labels:
    app: yellowfin-all-in-one
  name: yellowfin-all-in-one
spec:
  replicas: 1
  selector:
    matchLabels:
      app: yellowfin-all-in-one
  template:
    metadata:
      labels:
        app: yellowfin-all-in-one
    spec:
      containers:
      - env:
        - name: APP_MEMORY
          value: "6144"
        name: yellowfin-all-in-one
        image: yellowfinbi/yellowfin-all-in-one:<RELEASE_VERSION_GOES_HERE>
        ports:
        - name: web
          containerPort: 8080

```

3. Update <RELEASE_VERSION_GOES_HERE> with your release version (eg, 9.6.0)
4. If you don't wish to provision a load balancer via a cloud provider, replace **LoadBalancer** with **NodePort** for **Spec.Type**, then remove the line for **Service.Spec.Status**
5. Save the text to a YAML file called **yellowfin-all-in-one.yml**
6. Run the following command in a terminal to deploy Yellowfin and execute it in the background:
`kubectl apply -f yellowfin-all-in-one.yml`
7. Start Yellowfin by typing your host URL on port 8080.

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