
Installing Sync server

Guide to install Sync server on Kubernetes.

Prerequisites

Soffid IAM sync server requires the following requirements:

- Supported database installed
- Soffid Console Installed

Video Tutorial

Linux

<https://www.youtube.com/embed/XZFMLQ00kAA?rel=0>

Installation

You can use the docker image described at [Installing Sync server using Docker](#). Here you have a sample Kubernetes YAML descriptor to deploy it.

```
# Secrets to store syncserver configuration
apiVersion: v1
kind: Secret
metadata:
  name: syncserver
type: Opaque
data:
```

```
config: c3Nva20=  
---  
# Service account for sync server  
apiVersion: v1  
kind: ServiceAccount  
metadata:  
  name: syncserver  
---  
# Role to access the sync server  
kind: ClusterRole  
apiVersion: rbac.authorization.k8s.io/v1  
metadata:  
  name: syncserver  
rules:  
  - verbs:  
    - get  
    - update  
  apiGroups:  
    - ""  
  resources:  
    - deployments  
    - pods/attach  
    - secrets  
    - secrets/syncserver  
---  
kind: RoleBinding  
apiVersion: rbac.authorization.k8s.io/v1  
metadata:  
  name: syncserver  
  namespace: default  
subjects:  
  - kind: ServiceAccount  
    name: syncserver  
roleRef:  
  apiGroup: rbac.authorization.k8s.io  
  kind: ClusterRole  
  name: syncserver  
---  
apiVersion: apps/v1  
kind: Deployment
```

metadata:

name: syncserver01

labels:

app: soffid

type: syncserver

spec:

replicas: 1

selector:

matchLabels:

app: soffid

type: syncserver

template:

metadata:

labels:

app: soffid

type: syncserver

spec:

serviceAccountName: syncserver

containers:

- name: syncserver

image: soffid/iam-sync:4.0.0-beta-2

ports:

- containerPort: 760

name: syncserver-port

readinessProbe:

initialDelaySeconds: 5

failureThreshold: 1

httpGet:

path: /diag

scheme: HTTPS

port: 760

livenessProbe:

initialDelaySeconds: 5

timeoutSeconds: 3

failureThreshold: 3

httpGet:

path: /diag

scheme: HTTPS

port: 760

env:

```
- name: DB_USER
  value: soffid
- name: DB_PASSWORD
  value: 5uper5ecret
- name: SOFFID_HOSTNAME
  value: syncserver01.cloud.soffid.com
- name: SOFFID_MAIN
  value: "yes"
- name: KUBERNETES_CONFIGURATION_SECRET
  value: "syncserver"
- name: DB_URL
  value: jdbc:mariadb://mariadb-service/soffid
```

apiVersion: v1

kind: Service

metadata:

name: syncserver

spec:

externalTrafficPolicy: Local

type: LoadBalancer

selector:

app: soffid

type: syncserver

ports:

- name: syncserver

protocol: TCP

port: 760

targetPort: 760

If the syncserver pod is not available in 5 seconds, probably it will restart constantly and it will not be available. To solve this, change the sample Kubernetes YAML descriptor showed above like this:

livenessProbe:

failureThreshold: 3

httpGet:

path: /diag

port: 761

scheme: HTTP

initialDelaySeconds: 360

periodSeconds: 10

```
successThreshold: 1
timeoutSeconds: 3
name: syncserver
ports:
  - containerPort: 760
    name: syncserver-port
    protocol: TCP
readinessProbe:
  failureThreshold: 1
  httpGet:
    path: /diag
    port: 761
    scheme: HTTP
  initialDelaySeconds: 300
  periodSeconds: 10
  successThreshold: 1
  timeoutSeconds: 1
```

Linux commands

Apply the YAML file with the defining Kubernetes resources

```
kubectl apply -f syncserver.yaml
```

Check deployments

```
kubectl get deployments
```

Check pods: you can check pods and their status

```
kubectl get pods
```

View Sync server log

```
kubectl logs <your-pod-syncserver-name>
```

Now you can connect to the IAM console <http://<Node-IP>:<publish-port>/soffid> and check if Console and Syncserver are connected.

Revision #25

Created 15 March 2021 15:54:02

Updated 16 January 2026 17:01:37 by Sion Vives