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/XZFMLQ0OkAA?rel=0

Installation

You can use the docker image described at Installing Sync server using Docker. Here you have a sample Kubernets 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
```

Chek 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 chek if Console and Syncserver are connected.

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