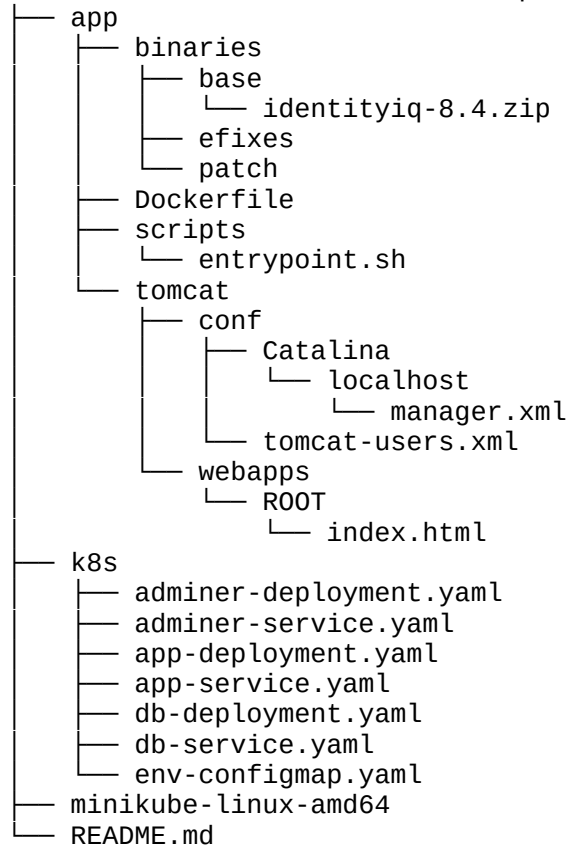


SailPoint IdentityIQ 8.4 Deployment Guide on Minikube (Ubuntu VM)

Folder Structure (Current Reference)

/Downloads/Customize/docker-sailpoint-identityiq



Step-by-Step Commands for Redeployment (Fresh System)

1. Start Minikube with Docker Driver

```
minikube start --driver=docker
```

2. Set Docker Env and Build Image Inside Minikube

```
eval $(minikube docker-env)
docker build -t docker-sailpoint-identityiq-app ./app
```

3. Create Namespace

```
kubectl create namespace sailpointiiq-dev
```

4. Deploy Kubernetes Resources

```
kubectl apply -f k8s/env-configmap.yaml -n sailpointiiq-dev
```

```
kubectl apply -f k8s/db-deployment.yaml -n sailpointiiq-dev
kubectl apply -f k8s/db-service.yaml -n sailpointiiq-dev
kubectl apply -f k8s/app-deployment.yaml -n sailpointiiq-dev
kubectl apply -f k8s/app-service.yaml -n sailpointiiq-dev
kubectl apply -f k8s/adminer-deployment.yaml -n sailpointiiq-dev
kubectl apply -f k8s/adminer-service.yaml -n sailpointiiq-dev
```

5. Access the Application via Port Forwarding

```
kubectl port-forward -n sailpointiiq-dev deployment/identityiq 8080:8080
```

Then open your browser:

<http://localhost:8080/identityiq>

Debugging Issues & Fixes

1. App Couldn't Reach DB

Symptoms: Logs show Waiting for database server 'db'...

Fix: Ensure db-service.yaml exists with matching labels.

2. App Service Not Accessible

Symptoms: minikube service app-service --url fails

Fix: Set service type to NodePort in app-service.yaml:

```
spec:
  type: NodePort
  ports:
    - port: 8080
      targetPort: 8080
```

3. Docker Image Not Pulled

Symptoms: Pod shows ImagePullBackOff

Fix:

- Option 1: Build inside Minikube

```
eval $(minikube docker-env)
docker build -t docker-sailpoint-identityiq-app ./app
```

- Option 2: Load prebuilt image

```
minikube image load docker-sailpoint-identityiq-app
```

- Ensure:

```
imagePullPolicy: Never
```

4. No Browser Access (Alternative to Port Forwarding)

Fix:

```
minikube ip
kubectl get svc app-service -n sailpointiiq-dev
```

Access at:

`http://<minikube-ip>:<NodePort>`

Final Checklist

Component	Check	Status
DB Deployment		Running
DB Service		Created
App Deployment		Running
App Service		NodePort
DNS Resolution		Working
Entrypoint Script		Wait OK
Web Access		Confirmed

Summary Guidelines

1. Use `port -forward` during development.
 2. Always build app image inside Minikube or use `minikube image load`.
 3. Validate all services via `kubectl get svc -n sailpointiiq-dev`.
 4. Tail logs with `kubectl logs <pod> -n sailpointiiq-dev`.
 5. Separate configs using ConfigMaps or Secrets.
 6. Make sure `entrypoint.sh` waits properly for DB.
 7. Avoid Kompose in production — prefer manually written YAMLs.
 8. Expose app via NodePort or `port-forward`.
 9. Test full app flow post-deployment.
-

Deployment Complete. IdentityIQ should be available at:

`http://localhost:8080/identityiq`

or

`http://<minikube-ip>:<node-port>`