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INSTALLATION PROCEDURE

OPENSHIFT ROUTE CREATION

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Distribution List

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1. INTRODUCTION

The objective of the Installation Procedure is to provide detailed step by step instructions for installing OpenShift Route.

2. PREREQUISITES

To be able to properly execute this instruction, you would need to fulfill the following conditions:

- have access to OpenShift cluster
- have sufficient privileges on OpenShift
- have appropriate knowledge about OpenShift and networking in general

Project team should provide information about the endpoint which needs to be exposed over OpenShift route:

- DeploymentConfig name (kind: DeploymentConfig) – name of the DeploymentConfig which exposes HTTP endpoint (e.g.: cadency-ishift01)
- HTTP port – port number on which endpoint is exposed (e.g.: 11205)
- Resource path – path on which endpoint is exposed (e.g.: /SOAPServiceBinding/MCS-10762-UserExistenceCheck-esb/)
- Domain – name of domain on which route needs to expose the endpoint (e.g.: gbo-dev.sanofi.com)
- Information if endpoint should be exposed with TLS

3. INSTALLATION ACTIVITIES

3.1. Initial Verification

3.1.1. Verify Service configuration

Verify if service (Kind: Service) associated with Deployment Config (kind: DeploymentConfig) points to the right port, if not, create a new port configuration, e.g.:

```yaml
kind: Service
apiVersion: v1
metadata:
  name: cadency-ishift01-service
  namespace: tibco-scale-ishift-dev
  labels:
    app: cadency-ishift01
spec:
  ports:
    - name: http4
```

```
      protocol: TCP
      port: 11205
      targetPort: 11205
selector:
    name: cadency-ishift01
```

3.2. New route creation

3.2.1. Create new Route

Create a new Route (kind: Route) pointing to the Service (kind: Service) and port from the previous section:

```
kind: Route
apiVersion: route.openshift.io/v1
metadata:
  name: ssl-aws-emea-4-cadency-ishift01-userexistencecheck
  namespace: tibco-scale-ishift-dev
  labels:
    app: cadency-ishift01
spec:
  host: cadency-ishift01.aws-emea-4.gbo-dev.sanofi.com
  path: /SOAPServiceBinding/MCS-10762-UserExistenceCheck-esb/
  to:
    kind: Service
    name: cadency-ishift01-service
    weight: 100
  port:
    targetPort: http4
```

Host parameter should end with the domain name provided by development team, e.g.:

```
spec:
  host: cadency-ishift01.aws-emea-4.gbo-dev.sanofi.com
```

Path parameter should match resource path, e.g.:

```
spec:
  path: /SOAPServiceBinding/MCS-10762-UserExistenceCheck-esb/
```

If TLS was requested, TLS termination should be set to edge and certificate configuration should match with the provided host.

Paste the certificates information in the following fields:

- Certificate field should contain a server certificate.
- Key field should contain private key associated with certificate
- caCertificate field should contain concatenation of certificate authority certificates

(intermediate, root, others if needed).

All certificates and keys should be provided in PEM format.

```
tls:
    termination: edge
    certificate: |-
      -----BEGIN CERTIFICATE-----
…
      -----END CERTIFICATE-----
    key: |-
      -----BEGIN PRIVATE KEY-----
…
      -----END PRIVATE KEY-----
    caCertificate: |-
      -----BEGIN CERTIFICATE-----
…
      -----END CERTIFICATE-----
      -----BEGIN CERTIFICATE-----
…
      -----END CERTIFICATE-----
    insecureEdgeTerminationPolicy: Redirect
  wildcardPolicy: None
```

Save the Route.

3.2.1. Verify Route creation

Verify if route was created by checking its status in the YAML, it should be “True” and type “Admitted”, e.g.:

```
status:
  ingress:
    - host: cadency-ishift01.aws-emea-4.gbo-dev.sanofi.com
      routerName: default
      conditions:
        - type: Admitted
          status: 'True'
          lastTransitionTime: '2021-12-12T04:23:01Z'
      wildcardPolicy: None
      routerCanonicalHostname: router-default.apps.scale-
683b0e3a.p560298742787.aws-emea.sanofi.com
```