



Default Secret for TLS Routes

Avi Technical Reference (v21.1)

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Default Secret for TLS Routes

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Overview

By default, AKO expects all routes with TLS termination to have key and cert to be specified in the route spec. Sometimes, users may want to apply a common key-cert for multiple routes.

To handle such use cases, AKO supports TLS routes without key/cert specified in the route spec.

Starting with AKO version 1.3.1, you can apply a common key-cert value for multiple routes using the default secret for TLS routes. For example, a wild card secret can be used for all host names in the same subdomain.

Using a Wild Card Secret

In such a scenario, a common key-cert value can be specified in a secret that can be used for TLS routes that do not have a key-cert value specified in the route spec.

To use the wild card secret,

1. Create a secret with name `router-certs-default` in the same namespace where the AKO pod is running (`avi-system`). Ensure that the secret has a `tls.crt` and `tls.key` fields in its data section.

An example of the default secret is given below:

```
apiVersion: v1
kind: Secret
metadata:
  name: router-certs-default
  namespace: avi-system
type: kubernetes.io/tls
data:
  tls.crt:
    -----BEGIN PRIVATE KEY-----
    [...]
    -----END PRIVATE KEY-----
  tls.key:
    -----BEGIN CERTIFICATE-----
    [...]
    -----END CERTIFICATE-----
```

2. After creating the secret, we can add a secure route without without key or cert in the spec.

For example,

```
apiVersion: v1
kind: Route
metadata:
```

```
name: secure-route-no-cert
spec:
  host: secure-no-cert.avi.internal
  to:
    kind: Service
    name: avisvc
  tls:
    termination: edge
```

AKO uses the default secret to fetch the key and cert values for processing all such routes.

Notes: * For TLS routes with termination type re-encrypt, the value of the destination CA has to be specified in the route spec itself. * The CA certificate can not be specified as a part of the default secret. * The field `router-certs-default` present in the OpenShift-ingress namespace is not used by AKO. Create `router-certs-default` in the `avi-system` namespace.

Document Revision History

Date	Change Summary
December 18, 2020	Published the article for Default Secret for TLS Routes