Q. 8. Configure a secure route

Configure the oxcart application in the area5l project with the following requirements:

Complete and Continue

The application uses a secure route called oxcart

Traffic between the client and the router is encrypted

Traffic between the router and the service is unencrypted

The route uses a CA signed certificate with the following subject fields:

/C=US/ST=NV/L=Hiko/O=CIA/OU=USAF/CN=classified.apps.domain20.exam

ple.com

The application is reachable only at the following address:

https://classified.apps.domain28.example.com

Prerequisite:

$ oc new-project arunachal

$ oc new-app--name=ooty-i httpd

$ oc get deploy

$ oc expose service oxcart

$ oc get route (copy the domain name)

$ oc delete route ooty

Answer:

(Note: In the exam there will be a script in /usr/bin/, regarding this there will be a note in the

exam question. Read the note and execute it. Which will help you to create the certificate.)

1. Create the certificate:

$ openssl req-x509-sha256-nodes-days 365-newkey rsa:4096-keyout private.key-out certificate.crt

$ ls-l

certificate.crt

private.key

2. Get IP of oxcart application

$ oc get service

3. Create a route

$ oc create route edge--service ooty--hostname=classified.apps.domain28.example.com--cert=certificate.crt--key=private.key

```
[student@workstation ~]$ oc get service
NAME    TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)
    AGE
ooty    ClusterIP   172.30.109.205   <none>        8080/TCP,8443/TC
P   2m35s
[student@workstation ~]$ oc create route edge --service ooty --hos
tname=classified.apps.domain28.example.com --cert=certificate.crt
--key=private.key
route.route.openshift.io/ooty created
[student@workstation ~]$
```

4. Verify

$ curl-kv https://classified.apps.domain28.example.com