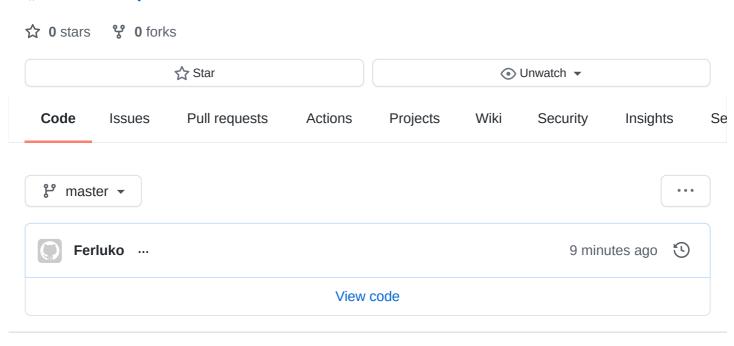
☐ ferluko / ocp-adv-service-mesh-hw



Red Hat Service Mesh - Homework

Red Hat Service Mesh Homework Assignment for Adv Red Hat Service Mesh Course

- Student: Fernando Gonzalez
- Company: Sales Vision SA (Semperti) Red Hat Business Partner
- E-mail: fernando.gonzalez@semperti.com

1. POC Environment

IMPORTANT!!! Lab Expires @ 12/07/20 14:54 UTC. Please email me if the environment is in "stopped" or in "standby" mode.

API Server

README.md

```
$ oc whoami --show-server
https://api.cluster-4025.4025.sandbox419.opentlc.com:6443
```

Web Console

```
$ oc whoami --show-console
https://console-openshift-console.apps.cluster-
4025.4025.sandbox419.opentlc.com
```

0

Users

Admin User: admin

Admin Password: r3dh4t1!

Mesh-admin User: user1

Mesh-admin Password: r3dh4t1!

Lab Versions

\$ oc version

Client Version: 4.5.1 Server Version: 4.5.4

Kubernetes Version: v1.18.3+012b3ec

2. Pre-Requirements

- Shell terminal
- OCP Cluster +v4.5
- Openshift Client Version 4.5 installed and logged on OCP Cluster

```
git clone https://github.com/ferluko/ocp-adv-service-mesh-hw
chmod +x scripts/*.sh
oc login -u admin -p r3dh4t1! https://api.cluster-4025.4025.sandbox419.opentlc
```

3. Business Application

Bookinfo Application Deployment

```
sh ./scripts/01_app-deploy.sh
```

4. OpenShift Service Mesh Operator and Control Plane

Red Hat OpenShift Service Mesh Operators

```
$ sh ./scripts/02_serv-mesh-deploy-operator.sh
```

Service Mesh Control Plane Installation

```
$ sh ./scripts/03_deploy-SMCP.sh
```

5. ServiceMeshMemberRoll

• Install a ServiceMeshMemberRoll resource with bookinfo as its only member.

```
$ sh ./scripts/04_serv-mesh-member-roll.sh
```

Inject envoy to bookinfo deployments

```
$ sh ./scripts/05_inject-envoy-proxy.sh
```

6. mTLS Security

· Setting up probes and create gateway and certs

```
$ sh ./scripts/06_certs-istio-ingressgw.sh
```

- Red Hat Service Mesh Resources for bookinfo project
 - Gateways
 - VirtualServices
 - DestinationRules
 - Policy

```
$ sh ./scripts/07_apply-mTLS.sh
```

Grant permission to user1 as mesh-admin

```
$ sh ./scripts/08_grant-permission.sh
```

Testing

```
export GATEWAY_URL=$(oc -n bookretail-istio-system get route productpage-gatew
curl -kv -o /dev/null -s -w "%{http_code}\n" https://$GATEWAY_URL/productpage
200
```

Generate continuous traffic

while (true) ; do curl -kv -o /dev/null -s -w "%{http_code}\n" https://\$GATEWA

Clean up Red Hat Service Mesh and Business App

\$ sh ./scripts/99_delete-serv-mesh.sh

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Languages

• Shell 100.0%