|  |  |
| --- | --- |
| **DOCUMENT RULES:** | |
| **Task Number / Name:** | **Playgrounds** |
| **Task name & column name should be written:** | **Bold (CTRL+B)** |
| **Commands should be written in the after # sign:** | *Italic (CTRL+I) #hostname* |
| **Output photo should be cropped or compressed:**  **Photo could be more than one:**  **If you need extra lines, add the line next after it:** | ***Description photo should be with title bar (CTRL + I + B)*** |
| **All other text should be written:** | Standard |
| **Font name and text size:** | Calibri and 9 |
| **Group name:** | Dev\_ops\_ |
| **Student name and surname:** | Murad Abbaszade |
| **E-mail:** | [muradabbaszade6@gmail.com](mailto:muradabbaszade6@gmail.com) |
| **WhatsApp number:** | **+994703664205** |

|  |  |
| --- | --- |
| 1.Istio |  |
|  |  |
| Check the installed version:  istioctl version |  |
| We port-forward to the Istio ingressgateway service:  kubectl port-forward -n istio-system --address 0.0.0.0 service/istio-ingressgateway 1234:80 |  |
| 2.Helloworld samples |  |
| istioctl version |  |
| kubectl label namespace default istio-injection=enabled --overwrite |  |
| kubectl apply -f /root/istio-1.14.4/samples/helloworld/helloworld.yaml |  |
| kubectl apply -f /root/istio-1.14.4/samples/helloworld/helloworld-gateway.yaml |  |
| kubectl wait deploy --all --for condition=available --timeout=1h |  |
| kubectl port-forward -n istio-system --address 0.0.0.0 service/istio-ingressgateway 1234:80 |  |
|  |  |
| 3.Samples bookinfo |  |
| istioctl version |  |
| kubectl label namespace default istio-injection=enabled --overwrite |  |
| kubectl apply -f /root/istio-1.14.4/samples/bookinfo/networking/virtual-service-all-v1.yaml |  |
| kubectl apply -f /root/istio-1.14.4/samples/bookinfo/networking/bookinfo-gateway.yaml |  |
| kubectl apply -f /root/istio-1.14.4/samples/bookinfo/networking/destination-rule-all.yaml |  |
| kubectl apply -f /root/istio-1.14.4/samples/bookinfo/platform/kube/bookinfo.yaml |  |
| kubectl wait deploy --all --for condition=available --timeout=1h |  |
|  |  |
| 3.Linkerd |  |
| linkerd version |  |
| linkerd check |  |
| kubectl create ns my-app |  |
| kubectl annotate ns my-app linkerd.io/inject=enabled |  |
| kubectl port-forward -n ingress-nginx --address 0.0.0.0 service/ingress-nginx-controller 1234:80 |  |
| 4.Starboard |  |
| kubectl -n starboard-system get deployment |  |
| kubectl create deployment nginx --image nginx:1.16 |  |
| kubectl get vulnerabilityreports -o wide |  |
| kubectl get configauditreports -o wide |  |
| Install CLI  wget https://github.com/aquasecurity/starboard/releases/download/v0.15.4/starboard\_linux\_x86\_64.tar.gz  tar xzf starboard\_linux\_x86\_64.tar.gz  cp ./starboard /usr/local/bin/kubectl-starboard  mv ./starboard /usr/local/bin/starboard |  |
| Use the CLI:  kubectl starboard scan configauditreports deployment/nginx  kubectl starboard get configauditreports deployment/nginx -o yaml |  |