Lab 1

Q1:

```
Editor __Tob1__ +

controlplane $ helm repo add bitnami https://charts.bitnami.com/bitnami
"bitnami" has been added to your repositories
controlplane $ helm repo list

NAME URL
bitnami https://charts.bitnami.com/bitnami
controlplane $ |
```

Q2:

```
controlplane $ helm install amaze-surf bitnami/apache
NAME: amaze-surf
LAST DEPLOYED: Sun Feb 12 11:12:31 2023
NAMESPACE: default
STATUS: deployed
TEST SUITE: None
NOTES:
CHART NAME: apache
CHART VERSION: 9.2.15
APP VERSION: 2.4.55
** Please be patient while the chart is being deployed **
1. Get the Apache URL by running:
^{**} Please ensure an external IP is associated to the amaze-surf-apache service before proceeding ^{**} ** Watch the status using: kubectl get svc --namespace default -w amaze-surf-apache **
export SERVICE_IP=$(kubectl get svc --namespace default amaze-surf-apache --template "{{ range (index .stat us.loadBalancer.ingress 0) }}{{ . }}{{ . }}{{ end }}") echo URL : http://$SERVICE_IP/
WARNING: You did not provide a custom web application. Apache will be deployed with a default page. Check the README section "Deploying your custom web application" in https://github.com/bitnami/charts/blob/main/bitnami/apache/README.md#deploying-a-custom-web-application.
NAME
                          NAMESPACE
                                                    REVISION
                                                                                                                                                                           CHART
                                                                               UPDATED
                          APP VERSION
                          default
                                                                               2023-02-12 11:12:31.86321062 +0000 UTC deployed
amaze-surf
                                                                                                                                                                           apach
                           2.4.55
controlplane $
```

Q3:

```
controlplane $ helm uninstall amaze-surf
release "amaze-surf" uninstalled
controlplane $ helm list
NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION
controlplane $
```

Q4:

install nginx:

```
Controlplane $ helm install bitnami/nginx --version 12.0.4

Error: must either provide a name or specify --generate-name
    controlplane $ helm install my-release-nginx bitnami/nginx --version 12.0.4

NAME: my-release-nginx

LAST DEPLOYED: Sun Feb 12 11:31:02 2023

NAMESPACE: default
STATUS: deployed
REVISION: 1

TEST SUITE: None
NOTES:
CHART NAME: nginx
CHART NAME: nginx
CHART NAME: nginx
CHART VERSION: 1.22.0

** Please be patient while the chart is being deployed **
NGINX can be accessed through the following DNS name from within your cluster:
    my-release-nginx, default.svc.cluster.local (port 80)

To access NGINX from outside the cluster, follow the steps below:

1. Get the NGINX URL by running these commands:

NOTE: It may take a few minutes for the LoadBalancer IP to be available.
    Watch the status with: 'kubectl get sev --namespace default --w my-release-nginx'
    export SERVICE.PORT=S(kubectl get svc --namespace default my-release-nginx --o jsonpath='{.status.loadBalancer.ingress[0].ip}')
    echo "http://s(SERVICE_PORT)"

NAME: My-release-nginx default 1 2023-02-12 11:31:02.736321215 +0000 UTC deployed nginx-12.0.4 1.22.0

controlplane $ | NameSPACE | REVISION | UPDATED | STATUS | CHART | APP VERSION | My-release-nginx | default | 1 2023-02-12 11:31:02.736321215 +0000 UTC deployed | nginx-12.0.4 1.22.0
```

- update nginx to 1.23.1:

```
controlplane $ helm upgrade my-release-nginx bitnami/nginx --version 13.2.9
Release "my-release-nginx" has been upgraded. Happy Helming!
NAME: my-release-nginx
LAST DEPLOYED: Sun Feb 12 11:43:32 2023
NAMESPACE: default
STATUS: deployed
REVISION: 2
TEST SUITE: None
NOTES:
CHART NAME: nginx
CHART VERSION: 13.2.9
APP VERSION: 1.23.1

** Please be patient while the chart is being deployed **
NGINX can be accessed through the following DNS name from within your cluster:
my-release-nginx.default.svc.cluster.local (port 80)

To access NGINX from outside the cluster, follow the steps below:

1. Get the NGINX URL by running these commands:

NOTE: It may take a few minutes for the LoadBalancer IP to be available.
Watch the status with: 'kubectl get svc --namespace default -w my-release-nginx'
export SERVICE_PORT=$(kubectl get --namespace default my-release-nginx -o jsonpath='{.status.loadBalancer.ingress[0].ip}')
export SERVICE_IP=$(kubectl get svc --namespace default my-release-nginx -o jsonpath='{.status.loadBalancer.ingress[0].ip}')
controlplane $ | |
```

- roll back:

controlplane \$ helm list
NAME NAMESPACE REVISION UPDATED
STATUS CHART APP VERSIO
N my-release-nginx default 2 2023-02-12 11:43:32.178822746 +0000 UTC deployed nginx-13.2.9 1.23.1

controlplane \$ helm history
Error: "helm history requires 1 argument

Usage: helm history RELEASE_NAME [flags]
controlplane \$ helm history my-release-nginx
REVISION UPDATED
STATUS CHART APP VERSION DESCRIPTION
1 Sun Feb 12 11:31:02 2023 superseded nginx-12.0.4 1.22.0 Install complete
2 Sun Feb 12 11:43:32 2023 deployed nginx-13.2.9 1.23.1

Rollback was a success! Happy Helming!
controlplane \$ ## Limited Provided Happy Helming!