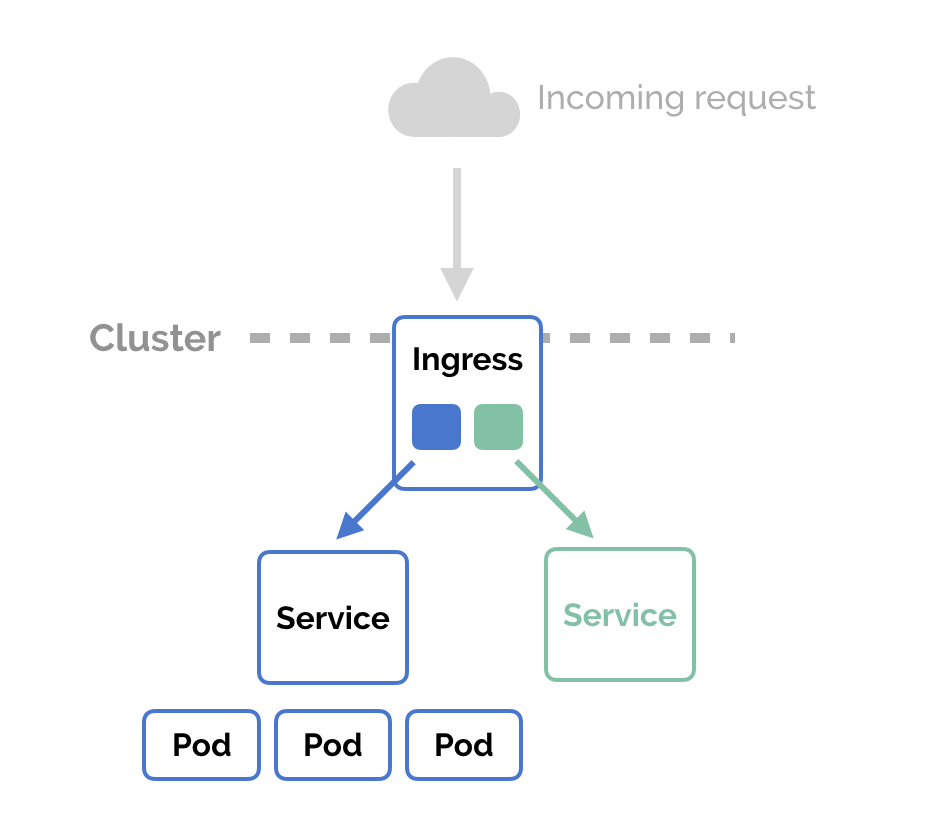
****

**SSH to your AWS Workstation**

**ssh devops@<public-ip-addr**> of your Workstation  
Password is : **Dev0p$!!/**

**Replace <your-name> with your name throughout the lab.**

**Create three Deployments by running the below commands.**

**1. Deployment 1**

|  |
| --- |
| $ mkdir /home/devops/ingress  $ cd /home/devops/ingress  $ kubectl run -n <your-name> <your-name>-1 --image=lovescloud/nginxdemo:v1 --port=80 |

****

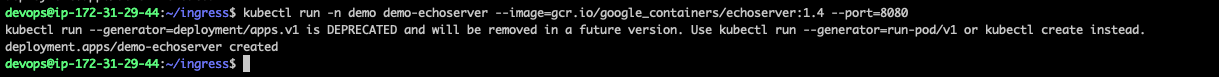
**2. Deployment 2**

|  |
| --- |
| # kubectl run -n <your-name> <your-name>-2 --image=lovescloud/nginxdemo:v2 --port=80 |



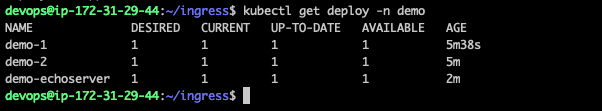
**3. Deployment 3 - The default Backend echo server**

|  |
| --- |
| # kubectl run -n <your-name> <your-name>-echoserver --image=gcr.io/google\_containers/echoserver:1.4 --port=8080 |



**4. Check if your deployments are running**

|  |
| --- |
| # kubectl get deploy -n <your-name> |

****

**5. Expose your deployments over NodePort**

**Deployment 1**

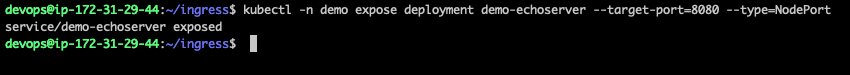
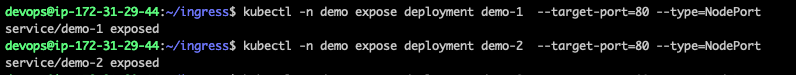
|  |
| --- |
| $ kubectl -n <your-name> expose deployment <your-name>-1 --target-port=80 --type=NodePort |

**Deployment 2**

|  |
| --- |
| # kubectl -n <your-name> expose deployment <your-name>-2 --target-port=80 --type=NodePort |

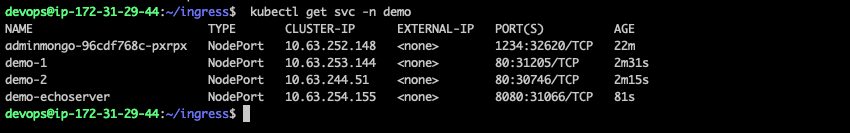
**Deployment 3**

|  |
| --- |
| # kubectl -n <your-name> expose deployment <your-name>-echoserver --target-port=8080 --type=NodePort |

****

**6. Check the Services**

|  |
| --- |
| # kubectl get svc -n <your-name> |

****

**7. Deploy the Ingress resource.**

|  |
| --- |
| $ curl -k https://pastebin.com/raw/ckUZHEhi > ingress.yaml |
|  |

**8. Now, edit the yaml file and update the below fields.**

|  |
| --- |
| $ vim ingress.yaml |

**<your-name>** update your name with your name

**<your-service1-name>** with your service name for the first deployment (check step 6)

**<your-service2-name>** with your service name for the second deployment (check step 6)

**<path1>** - Example albert-demo-1

**<path1>** - Example albert-demo-2

To save and exit once the changes have been made

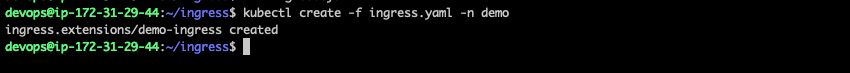
**Press Ecs :wq and hit enter to save and exit.**

Example of the deployment ingress.yaml file



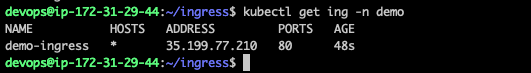
**9. Deploy the Ingress.**

|  |
| --- |
| $ kubectl create -f ingress.yaml -n <your-name> |

****

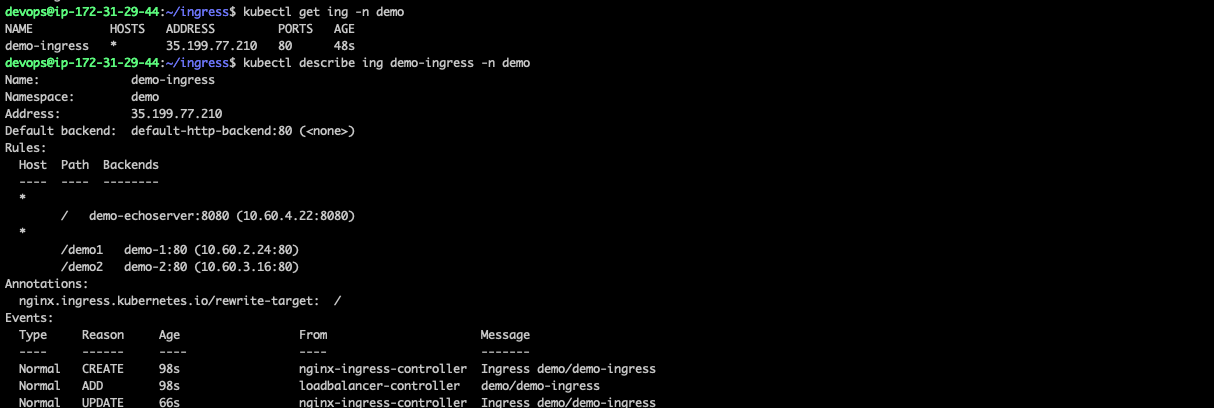
**10. Check the Deployment**

|  |
| --- |
| # kubectl get ing -n <your-name> |

****

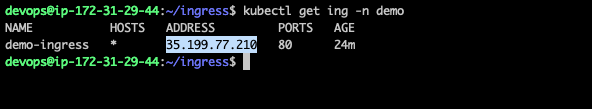
**11. Describe the Ingress**

|  |
| --- |
| $ kubectl describe ing <your-name>-ingress -n <your-name> |



**12. Accessing the Deployments over Ingress.**

|  |
| --- |
| $ kubectl get ing -n <your-name> |

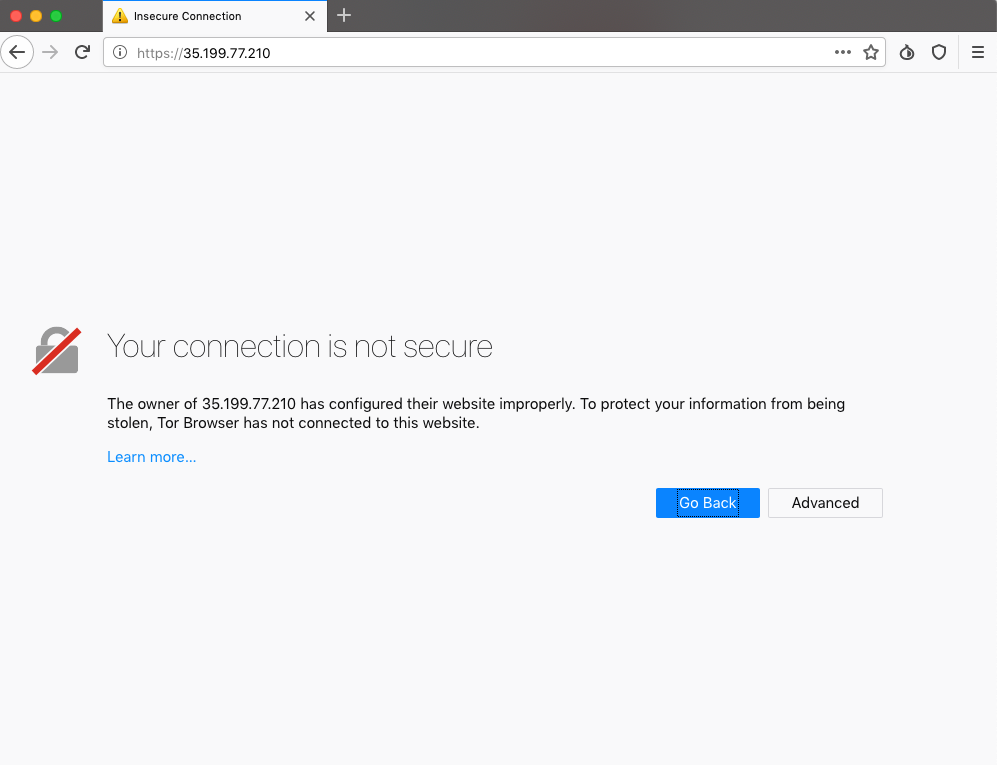
****

**Copy the ADDRESS to access the Ingress.**

**Access the Ingress from the ADDRESS provided.**

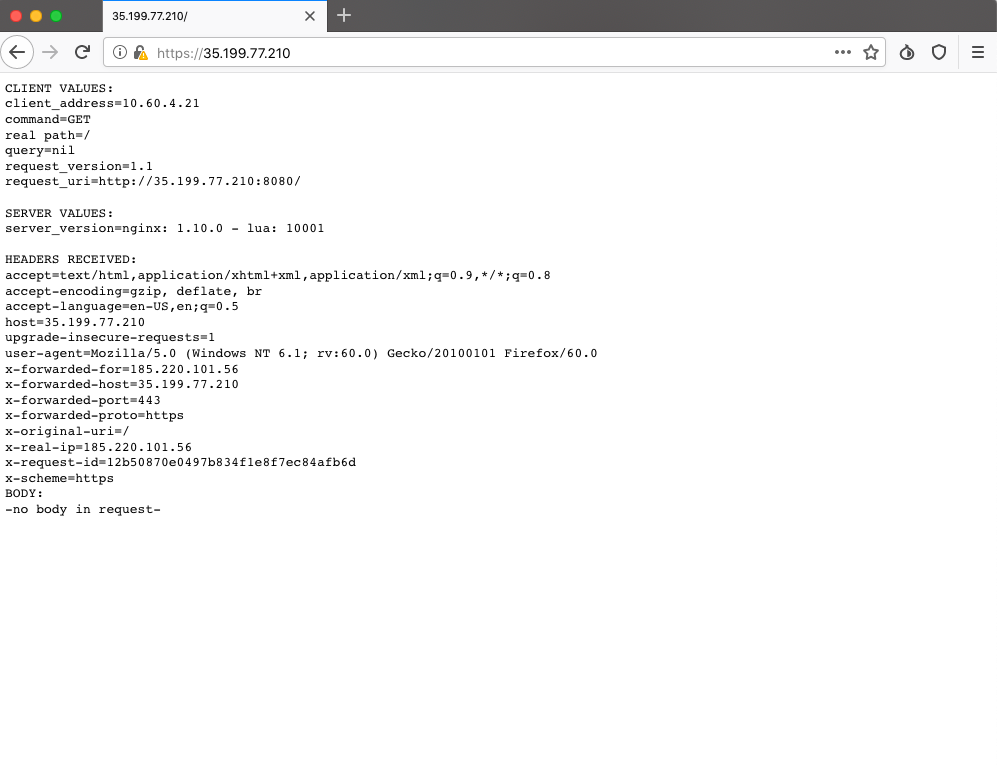
**Example**

[**http://35.199.77.210**](http://35.199.77.210)

****

**Click on the Advanced button and click on Proceed to (unsafe) and click on Add exception to Proceed.**

**16. The default backend i.e the echoserver**The url above will redirect the user to the default backend as we defined in our ingress deployment. The default backend for this demo is the echo server.

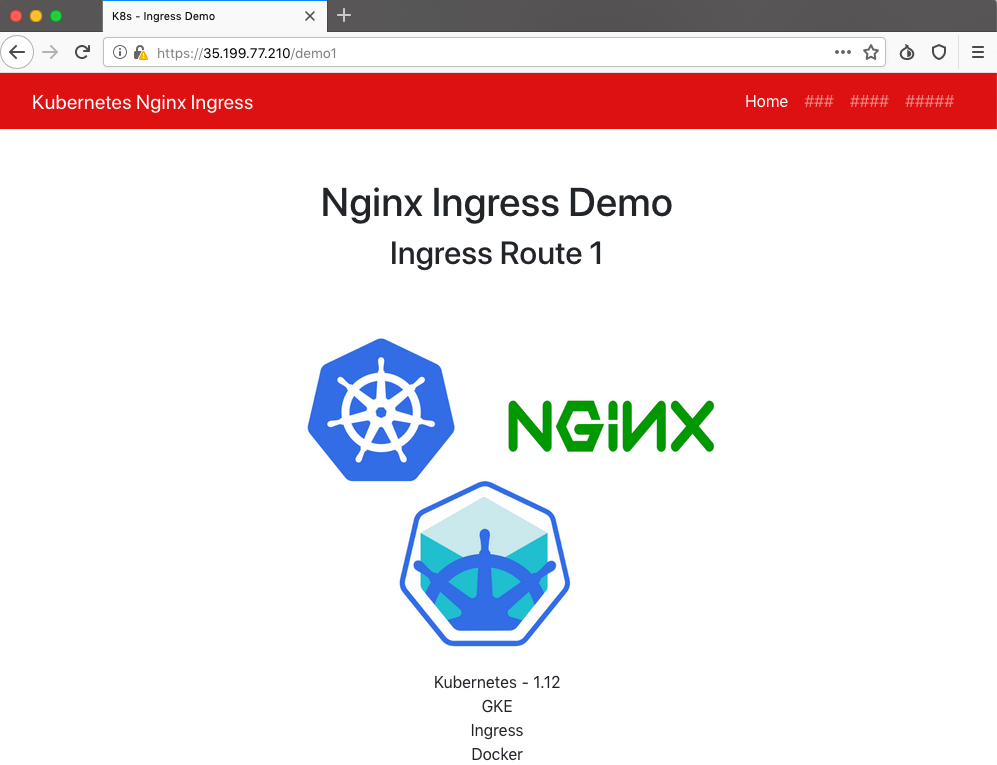
****

17. Now try to access the ingress controller through the **/paths** you specified in the **ingress.yaml**

**https://<worker-node-public-ip>:NodePort/path1**

Example

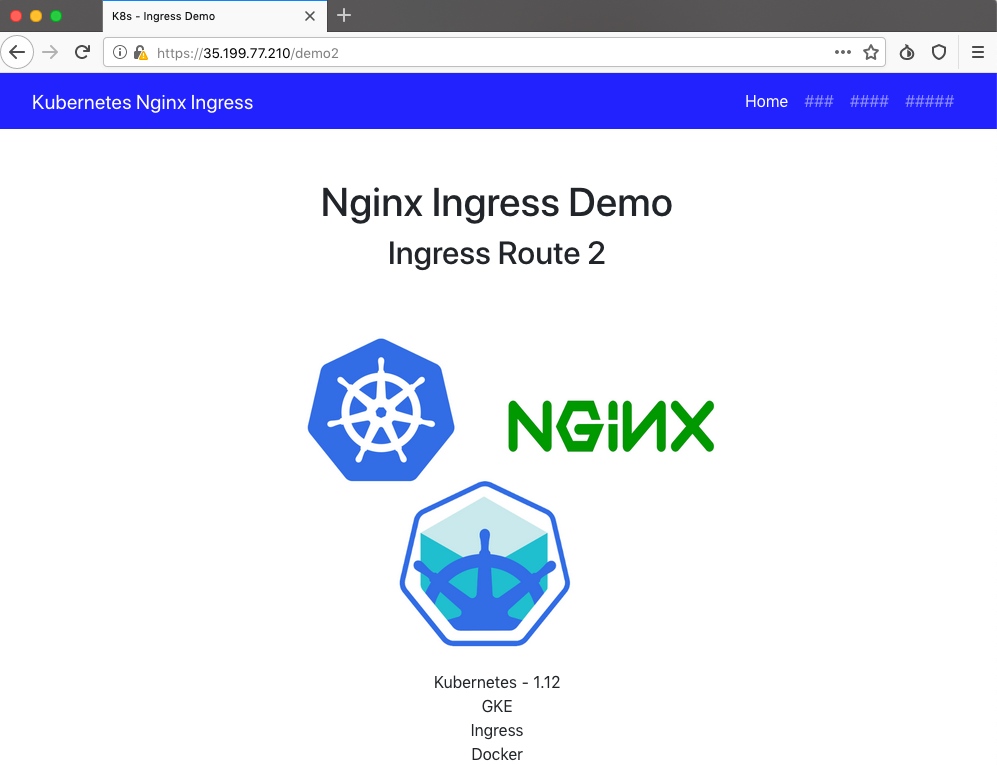
[**https://35.199.77.210/demo1**](https://35.200.167.44:31196/path1)

****

https://<worker-node-public-ip>:NodePort/path2

Example

[**https://35.199.77.210/demo2**](https://35.200.167.44:31196/path1)

****

18. Cleaning Up

Delete the deployments and services before moving on to the next labs in order to

reduce the cluster load.

|  |
| --- |
| $ kubectl get deployment -n <your-name> $ kubectl delete deployment arg1 arg2 arg3 ..argN -n <your-name> |

Where arg1 arg2 arg3 are deployment names

And to delete the service we created

|  |
| --- |
| $ kubectl get svc -n <your-name> $ kubectl delete svc arg1 arg2 arg3 ..argN -n <your-name> |

Where arg1 arg2 arg3 are service names