

Installation of Ingress nginx

Refer: <https://github.com/kubernetes/ingress-nginx>

Install using baremetal

Refer: <https://kubernetes.github.io/ingress-nginx/deploy/#bare-metal>

Download script to specific folder

```
cd <folder-path>
wget https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-
v0.46.0/deploy/static/provider/baremetal/deploy.yaml
```

Rename download .yaml file

```
mv ./deploy.yaml ingress-nginx-controller.yaml
```

in order to use ingress and assign an external ip address we need to use Load Balancer instead of NodePort of ingress nginx controller. Update ingress-nginx-controller.yaml with following lines

```
spec:
  type: LoadBalancer
  externalIPs:
    - <valid-external-ip>
```

```

263 apiVersion: v1
264 kind: Service
265 metadata:
266   annotations:
267   labels:
268     helm.sh/chart: ingress-nginx-3.30.0
269     app.kubernetes.io/name: ingress-nginx
270     app.kubernetes.io/instance: ingress-nginx
271     app.kubernetes.io/version: 0.46.0
272     app.kubernetes.io/managed-by: Helm
273     app.kubernetes.io/component: controller
274   name: ingress-nginx-controller
275   namespace: ingress-nginx
276 spec:
277-  type: LoadBalancer
278-  externalIPs:
279-    - 75.119.139.251
280  ports:
281    - name: http
282      port: 80
283      protocol: TCP

```

Install ingress controller using following command

```
kubectl apply -f ingress-nginx-controller.yaml
```

Above command will create following pods and services

```

techiterian@prd-master1:~/Documents/k8s-rapidoreach-prod/0070-create-ingress-service$ kubectl get all -n ingress-nginx
NAME                                     READY   STATUS    RESTARTS   AGE
pod/ingress-nginx-admission-create-bcndf 0/1     Completed 0           7h4m
pod/ingress-nginx-admission-patch-x4p4l  0/1     Completed 0           7h4m
pod/ingress-nginx-controller-55bc4f5576-72mp9 1/1     Running   0           7h4m

NAME                                     TYPE          CLUSTER-IP      EXTERNAL-IP      PORT(S)                                     AGE
service/ingress-nginx-controller         LoadBalancer  10.97.133.19    75.119.139.251  80:31168/TCP,443:31267/TCP               7h4m
service/ingress-nginx-controller-admission ClusterIP      10.107.101.183 <none>           443/TCP                                       7h4m

NAME                                     READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/ingress-nginx-controller 1/1     1             1           7h4m

NAME                                     DESIRED   CURRENT   READY   AGE
replicaset.apps/ingress-nginx-controller-55bc4f5576 1         1         1       7h4m

NAME                                     COMPLETIONS   DURATION   AGE
job.batch/ingress-nginx-admission-create 1/1           11s        7h4m
job.batch/ingress-nginx-admission-patch  1/1           12s        7h4m
techiterian@prd-master1:~/Documents/k8s-rapidoreach-prod/0070-create-ingress-service$

```

“ ingress nginx controller is now installed. We can now create ingress object to correctly route traffix to NodePort or ClusterIP services

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