

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	263	apiVersion: v1
264	kind: Service	264	kind: Service
265	metadata:	265	metadata:
266	annotations:	266	annotations:
267	labels:	267	labels:
268	helm.sh/chart: ingress-nginx-	268	helm.sh/chart: ingress-nginx-3.30.0
269	app.kubernetes.io/name: ingres	269	app.kubernetes.io/name: ingress-nginx
270	app.kubernetes.io/instance: in	270	app.kubernetes.io/instance: ingress-nginx
271	app.kubernetes.io/version: 0.4	271	app.kubernetes.io/version: 0.46.0
272	app.kubernetes.io/managed-by:	272	app.kubernetes.io/managed-by: Helm
273	app.kubernetes.io/component: c	273	app.kubernetes.io/component: controller
274	name: ingress-nginx-controller	274	name: ingress-nginx-controller
275	namespace: ingress-nginx	275	namespace: ingress-nginx
276	spec:	276	spec:
277-	type: LoadBalancer	277+	type: NodePort
278-	externalIPs:		
279-	- 75.119.139.251		
280	ports:	278	ports:
281	- name: http	279	- name: http
282	port: 80	280	port: 80
283	protocol: TCP	281	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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