

LightStreamer hosted using Manifest file with namespace.

Step 1:- Create an EKS Cluster

Step 2:- Create nodegroup for EKS Cluster

Step 3:- Use Cloudshell

Step 4:- AWS Configure

Access key =

Secret key =

Step 5:- Connect to Cluster

aws eks --region <region\_name> update-kubeconfig --name <cluster\_name>

Step 6:- Check nodes & cluster-info

kubectl get nodes

kubectl cluster-info

Step 7:- Create Namespace

kubectl create ns <name>

```
[cloudshell-user@ip-10-134-93-160 ~]$ kubectl create ns prat
namespace/prat created
[cloudshell-user@ip-10-134-93-160 ~]$ kubectl get ns
NAME                STATUS   AGE
default             Active   40m
kube-node-lease     Active   40m
kube-public         Active   40m
kube-system         Active   40m
prat                Active   24s
[cloudshell-user@ip-10-134-93-160 ~]$ ls
```

Step 8:- Create manifest file for pod and service

light.yml

```
apiVersion: v1
kind: Pod
metadata:
  name: light
  namespace: prat
  labels:
    app: myapp
spec:
  containers:
  - name: lstream
    image: lightstreamer
    ports:
    - containerPort: 8080
      protocol: TCP
---
apiVersion: v1
kind: Service
metadata:
  name: mserv
  namespace: prat
spec:
  selector:
    app: myapp
  type: NodePort
  ports:
  - port: 8080
```

```
targetPort: 8080
protocol: TCP
nodePort: 30080
name: lstream
...
```

## Step 9:- Create Pod and Service using manifest file

```
kubectl apply light.yml
```

```
kubectl get -n <namespace_name> pods
```

```
kubectl get -n <namespace_name> svc
```

```
[cloudshell-user@ip-10-134-93-160 lightstreamer]$ kubectl apply -f light.yml
pod/light created
service/myserv created
[cloudshell-user@ip-10-134-93-160 lightstreamer]$ kubectl get -n prat pods
NAME      READY   STATUS    RESTARTS   AGE
light     1/1     Running   0           7s
[cloudshell-user@ip-10-134-93-160 lightstreamer]$ kubectl get -n prat svc
NAME      TYPE      CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
myserv    NodePort  10.100.234.158 <none>        8080:30080/TCP  22s
[cloudshell-user@ip-10-134-93-160 lightstreamer]$ kubectl get -o wide nodes
NAME      STATUS   ROLES    AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE             KERNEL-VERSION      CONTAINER-RUNTIME
ip-172-31-27-31.ap-southeast-1.compute.internal Ready    <none>    138s   v1.20.8-eks-5e0fddc   172.31.27.31   52.221.181.238   Amazon Linux 2       5.10.210-201.852.amzn2.x86_64   containerd://1.7.11
[cloudshell-user@ip-10-134-93-160 lightstreamer]$
```

## Step 10:- Copy ExternalIP with port\_number and Paste in browser

← → ↻ Not secure 52.221.181.238:30080

# Welcome!

lightstreamer

Congratulations! Your Lightstreamer Server is up and running.

Stock	Price	Time	Change	Min	Max
Anduct	3.10	8:35:10	▲ +1.97%	3.09	3.19
Ations Europe	16.65	8:35:27	▲ +3.48%	15.10	16.86
Bagies Consulting	7.57	8:35:24	▲ +5.28%	7.15	7.68
BAY Corporation	3.62	8:34:37	▼ -0.27%	3.62	3.71
CON Consulting	7.57	8:35:26	▼ -0.52%	7.53	7.65
Corcor PLC	2.26	8:35:13	▼ -1.73%	2.26	2.30

Lap Time (s): 50.585  
Speed (mph): 88  
Gear: 2  
Engine RPM: 22400  
Mileage: 1.29

Speed Graph  
RPM Graph

Type a message here Send

Open more windows to enjoy interaction!