

Assignment2 Kubernetes

Tasks To Be Performed:

1. Use the previous deployment
2. Create a service of type NodePort for NGINX deployment
3. Check the NodePort service on a browser to verify

Step1:Creation of nodeport Manifest in Master Vm of kubernete

```
ubuntu@KubernetesMaster:~$ kubectl apply -f nodeport.yaml
service/nginx-service unchanged
ubuntu@KubernetesMaster:~$ cat nodeport.yaml
apiVersion: v1
kind: Service
metadata:
  name: nginx-service
spec:
  selector:
    app: nginx
  type: NodePort
  ports:
    - protocol: TCP
      port: 80
      targetPort: 80
      nodePort: 30080

ubuntu@KubernetesMaster:~$
```

i-03b937072ec3b9192 (KubernetesMaster)

PublicIPs: 18.60.176.75 PrivateIPs: 172.31.17.87

Step2:Our Manifest is ready and created Now let,s verify all the nodeports and main Vm

Find Instance by attribute or tag (case-sensitive)							
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input checked="" type="checkbox"/>	KubernetesMaster	i-03b937072ec3b9192	Running	t3.medium	Initializing	View alarms +	ap-so
<input type="checkbox"/>	KubernetesNode1	i-017a5f2c41f8d7ce4	Running	t3.medium	Initializing	View alarms +	ap-so
<input type="checkbox"/>	KubernetesNode2	i-03010e69b53cf2f60	Running	t3.medium	Initializing	View alarms +	ap-so

i-03b937072ec3b9192 (KubernetesMaster)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-03b937072ec3b9192

IPv6 address

-

Public IPv4 address copied

18.60.176.75 | open address

Private IPv4 addresses

172.31.17.87

Instance state

Running

Public IPv4 DNS

Our Master Vm is succesfully displayed the Nginx server.



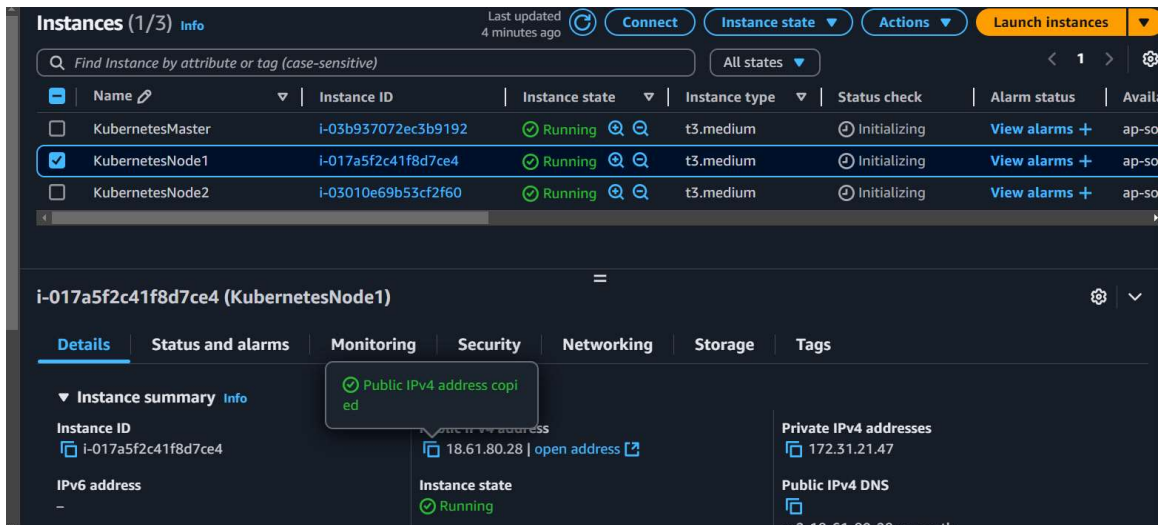
Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

Nodeport1



And it is Successfully displayed the page.



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Thank you for using nginx.

Nodeport2

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	KubernetesMaster	i-03b937072ec3b9192	Running	t3.medium	Initializing	View alarms
<input type="checkbox"/>	KubernetesNode1	i-017a5f2c41f8d7ce4	Running	t3.medium	Initializing	View alarms
<input checked="" type="checkbox"/>	KubernetesNode2	i-03010e69b53cf2f60	Running	t3.medium	Initializing	View alarms

i-03010e69b53cf2f60 (KubernetesNode2)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary [Info](#)

Instance ID

i-03010e69b53cf2f60

IPv6 address

-

Public IPv4 address

18.61.84.8 | [open address](#)

Instance state

Running

Private IPv4 addresses

172.31.18.150

Public IPv4 DNS

ec2-18-61-84-8.ap-south-

And our Nodeport2 is also successfully displayed the page.



Welcome to nginx!

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Thank you for using nginx.

