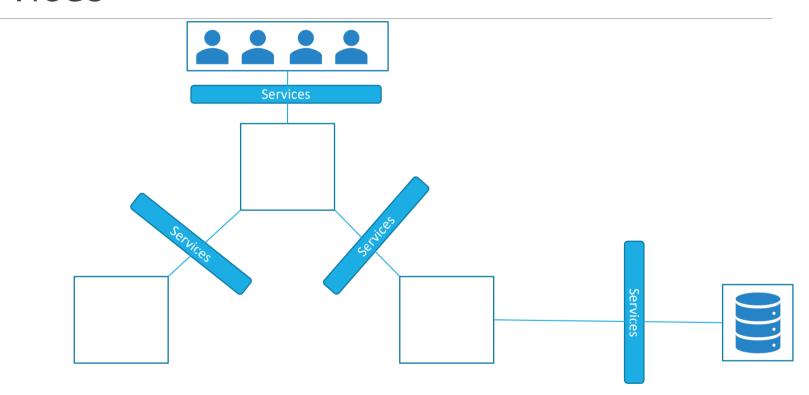
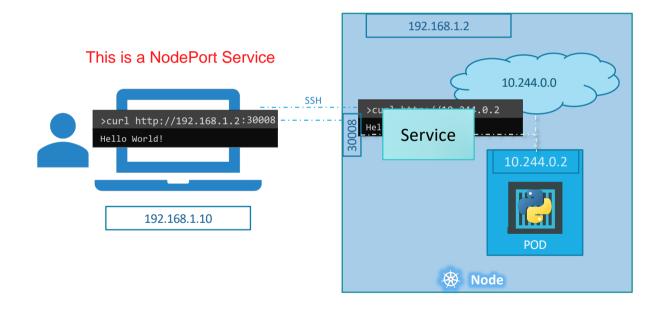
Services mumshad mannambeth

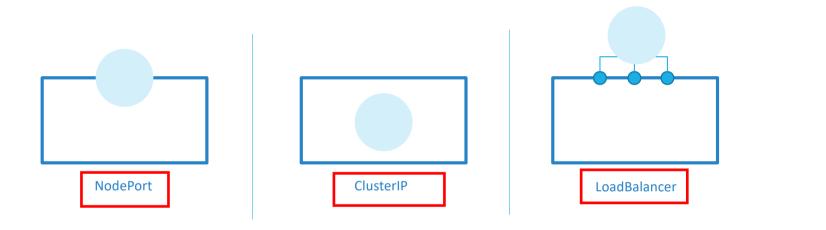
Services

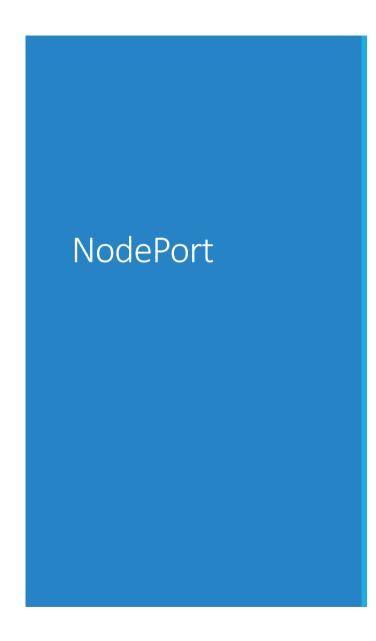


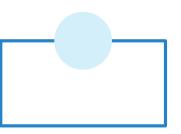
Service

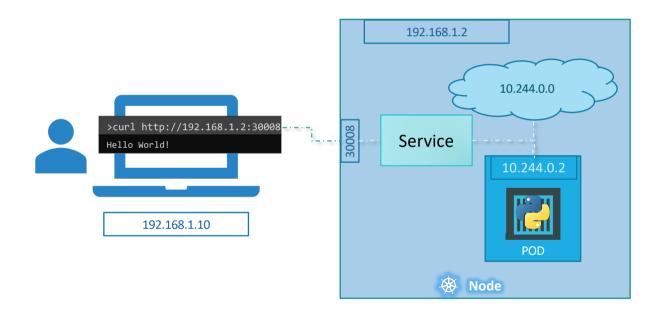


Services Types

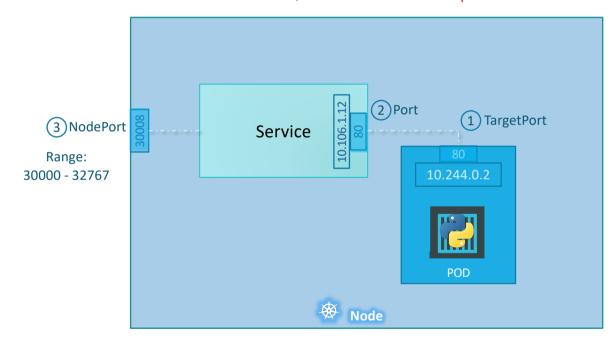


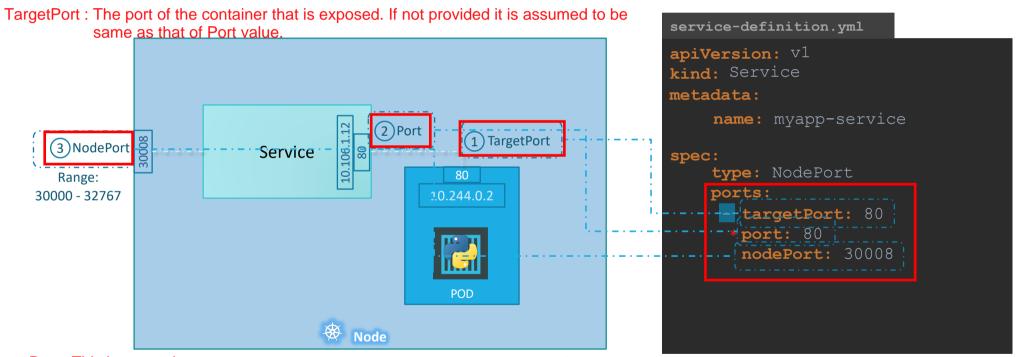






Service is like a virtual server inside the Node, which has its own unique cluster IP address.





Port: This is a mandatory, this is a port on the service object. Nodeport: If not provided then it is automatically allocated.

```
service-definition.yml

apiVersion: v1
kind: Service
metadata:
    name: myapp-service

spec:
    type: NodePort
    ports:
    - targetPort: 80
        port: 80
        nodePort: 30008

    selector:
        app: myapp
        type: front-end
```

kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 16d myapp-service NodePort 10.106.127.123 80:30008/TCP app: myapp > curl http://192.168.1.2:30008 <html> <head> <title>Welcome to nginx!</title> <style> bodu { width: 35em; margin: 0 auto; font-family: Tahoma, Verdana, Arial, sans-serif;

EXTERNAL-IP

PORT(S)

AGE

pod-definition.yml

service "myapp-service" created

> kubectl get services

TYPE

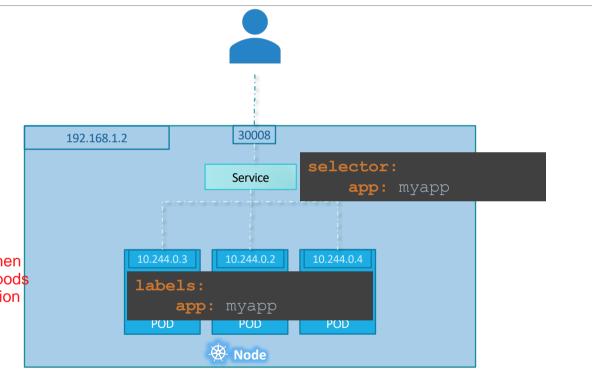
NAME

</style> </head> <bodu>

> kubectl create -f service-definition.yml

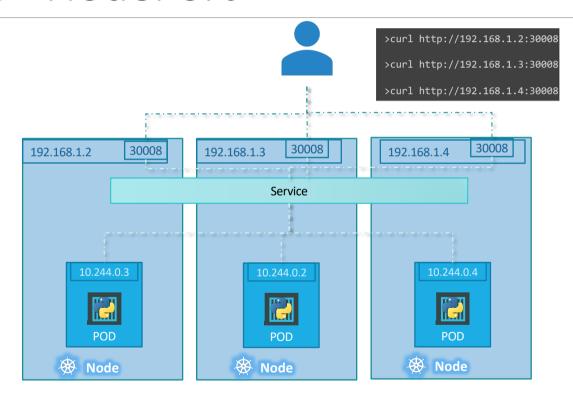
CLUSTER-IP

The selector section links the Service to the Pod.

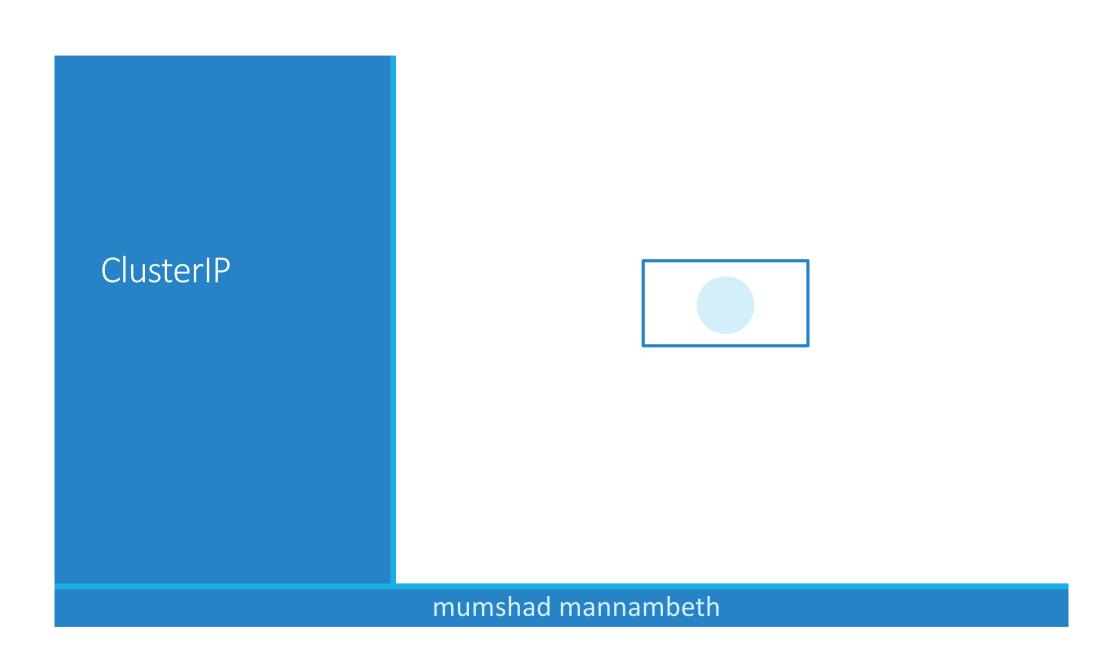


Algorithm: Random SessionAffinity: Yes

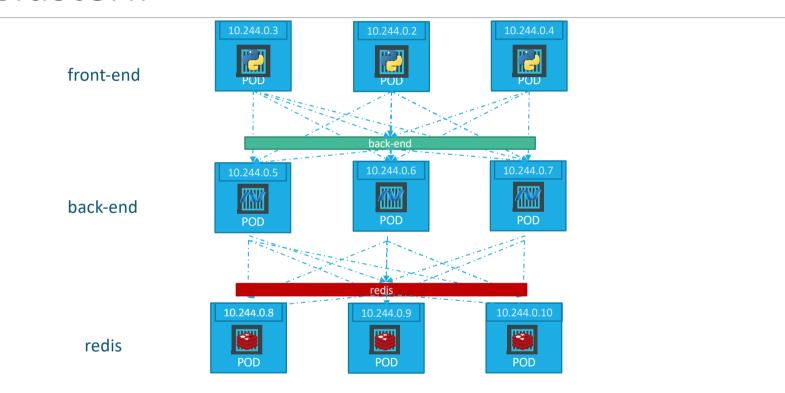
Multiple Pods on a Single Node, then traffic is distributed across all the pods using Random selection with session Affinity.



Demo

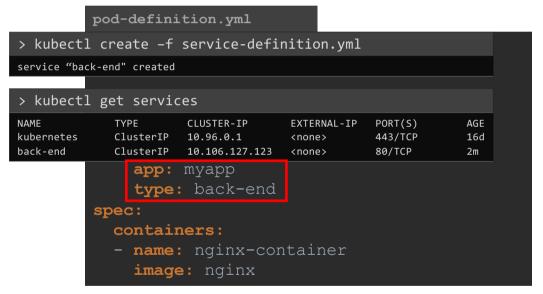


ClusterIP



ClusterIP is the default type for Service.

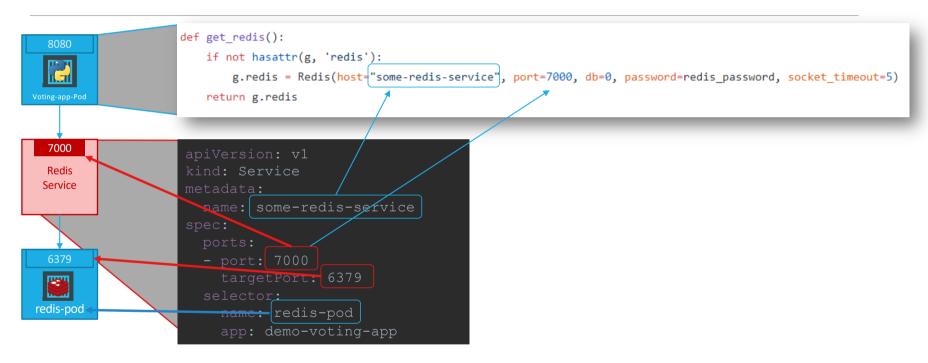




Service



Service

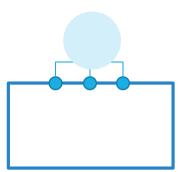


Demo

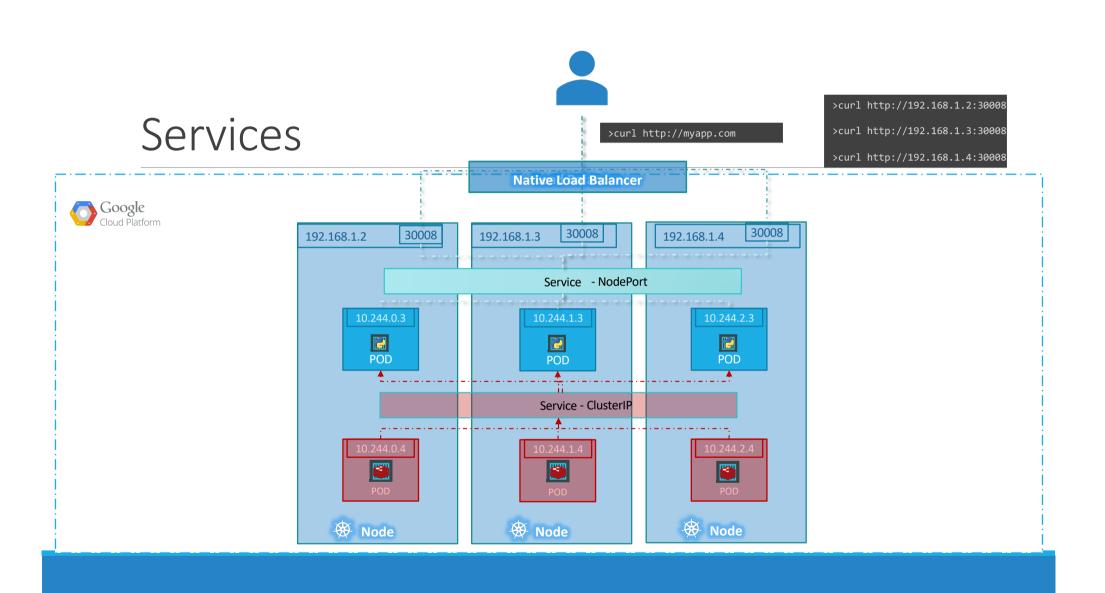
References

https://kubernetes.io/docs/concepts/services-networking/dns-pod-service/

Service -LoadBalancer



mumshad mannambeth



service-definition.yml apiVersion: v1 kind: Service metadata: name: front-end spec: type: NoddBerancer ports: - targetPort: 80 port: 80 selector: app: myapp type: front-end

> kubectl create -f service-definition.yml service "front-end" created > kubectl get services AGE NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 16d LoaBalancer 10.106.127.123 <Pending> 80/TCP front-end 2m