

[11] Deployment & Expose the Service

Deploy and Service

- Reconfigure the existing deployment `front-end` and add a port specification named `http` exposing port `80/tcp` of the existing container `nginx`.
- Create a new service named `front-end-svc` exposing the container port `http`.
- Configure the new service to also expose the individual Pods via a `NodePort` on the nodes on which they are scheduled.
 - `minikube`: k8s

Reference

[docs](#) [nodeport](#)

[Service](#)



```
[user@console ~]$ kubectl config use-context k8s

[user@console ~]$ kubectl get deployment front-end

[user@console ~]$ kubectl get deployment front-end -o yaml > front-end.yaml

[user@console ~]$ vi front-end.yaml

minikube k8s

spec:
```

```

containers:
  - image: nginx
  name: http
# 100% CPU, 100MB memory
  ports:
    - containerPort: 80
      name: http

---
apiVersion: v1
kind: Service
metadata:
  name: front-end-svc
spec:
  type: NodePort
  selector:
    run: nginx
  ports:
    - name: http
      protocol: TCP
      port: 80
      targetPort: http

:wq

# 100% CPU, 100MB memory
[user@console ~]$ kubectl delete deployment front-end

[user@console ~]$ kubectl apply -f front-end.yaml

```

100% (31%)

Create a deployment as follows: Name: nginx-random Exposed via a service nginx-random Ensure that the service & pod are accessible via their respective DNS records.

The container(s) within any pod(s) running as a part of this deployment should use the nginx Image.

Next, use the utility nslookup to look up the DNS records of the service & pod and write the output to /opt/KUNW00601/service.dns and /opt/KUNW00601/pod.dns respectively.

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```
kubectcl create deploy nginx-random --image=nginx --dry-run=client -o yaml
```

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Create and configure the service front-end-service so it's accessible through NodePort and routes to the existing pod named front-end.

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```
kubectcl expose pod front-end --port=80 --protocol=TCP --target-port=80 --name=front-end-service --type=NodePort
```

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