Networking is an important part of understanding the basics of Kubernetes. This lesson provides a high-level overview of what a Kubernetes virtual cluster network looks like. We will also demonstrate how the network functions by contacting one pod from another pod over the virtual network.

• Create a deployment with two nginx pods:

```
cat << EOF | kubectl create -f -
apiVersion: apps/v1
kind: Deployment
metadata:
 name: nginx
 labels:
   app: nginx
spec:
 replicas: 2
 selector:
   matchLabels:
    app: nginx
 template:
   metadata:
     labels:
       app: nginx
   spec:
     containers:
      - name: nginx
       image: nginx:1.15.4
       ports:
        - containerPort: 80
E0F
```

· Create a busybox pod to use for testing:

```
cat << EOF | kubectl create -f -
apiVersion: v1
kind: Pod
metadata:
   name: busybox
spec:
   containers:
   - name: busybox
   image: radial/busyboxplus:curl
   args:
   - sleep
   - "1000"
EOF</pre>
```

• Get the IP addresses of your pods:

```
kubectl get pods -o wide
```

• Get the IP address of one of the nginx pods, then contact that nginx pod from the busybox pod using the nginx pod's IP address:

```
kubectl exec busybox -- curl $nginx_pod_ip
```