## Deploying a Simple Nginx Server on Kubernetes

- Check the readiness of nodes at the cluster on master node.

```
kubectl get nodes
```

- Show the list of existing pods. Since we haven't created any pods, list should be empty.

```
kubectl get pods
```

- Get the details of pods.

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

- Create and run a simple `Nginx` Server image in a pod on master.

```
kubectl run nginx-server --image=nginx --port=80
```

- Get the list of pods on master and check the status and readiness of `nginx-server`

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

- Expose the nginx-server pod as a new Kubernetes service on master.

```
kubectl expose pod nginx-server --port=80 --type=NodePort
```

- Get the list of services and show the newly created service of `nginx-server`

```
kubectl get service -o wide
```

- You will get an output like this.

```
kubernetes     ClusterIP   10.96.0.1       <none>        443/TCP        13m    <none>
nginx-server   NodePort    10.110.144.60   <none>        80:32276/TCP   113s
run=nginx-server
```

- Open a browser and check the `public ip:<NodePort>` of worker node to see Nginx Server is running. In this example, NodePort is 32276.
- Clean the service and pod from the cluster.

```
kubectl delete service nginx-server
kubectl delete pods nginx-server
```

- Check there is no pod left.

```
kubectl get pods
```