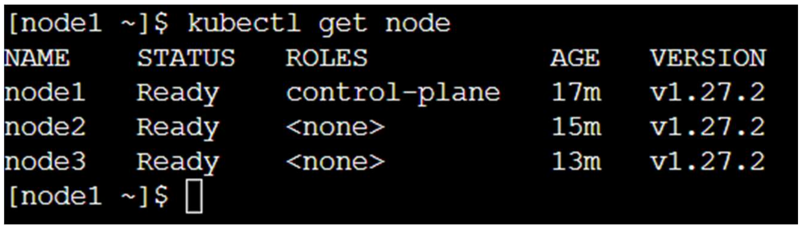
ManualScheduling.

You can manually schedule a pod on a specific node by specifying the nodeName field in the Pod specification. When a nodeName is given, the Kubernetes scheduler is bypassed and the pod is directly assigned to run on the node with the given name.

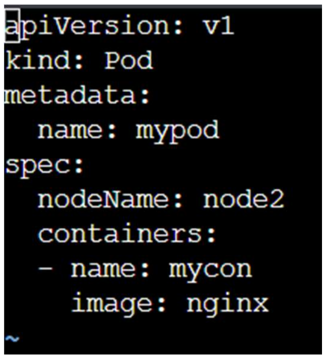
Now I viwe the default node .



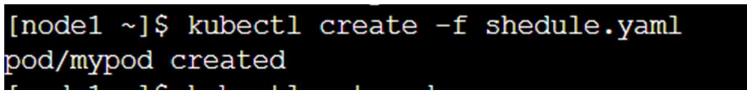
```
[node1 ~]$ kubectl get node
NAME     STATUS   ROLES           AGE   VERSION
node1    Ready    control-plane   17m   v1.27.2
node2    Ready    <none>          15m   v1.27.2
node3    Ready    <none>          13m   v1.27.2
[node1 ~]$
```

Now I create an pod in sheduled node.

[node1 ~]$ vi shedule.yaml

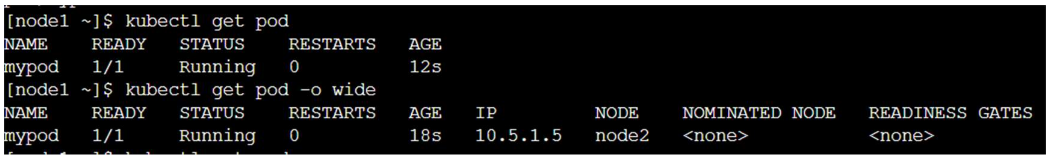


```
apiVersion: v1
kind: Pod
metadata:
  name: mypod
spec:
  nodeName: node2
  containers:
  - name: mycon
    image: nginx
~
```



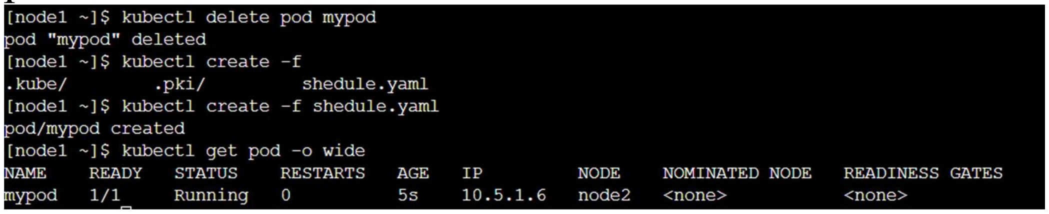
```
[node1 ~]$ kubectl create -f shedule.yaml
pod/mypod created
```

Now I viwe the pod in which node it was located.



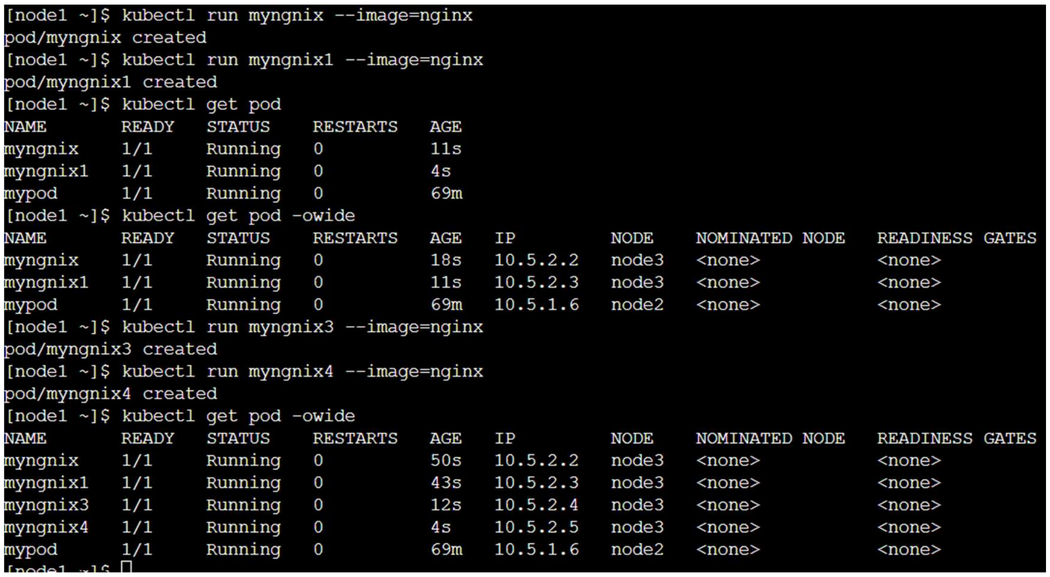
```
[node1 ~]$ kubectl get pod
NAME    READY   STATUS    RESTARTS   AGE
mypod   1/1     Running   0          12s
[node1 ~]$ kubectl get pod -o wide
NAME    READY   STATUS    RESTARTS   AGE   IP         NODE    NOMINATED NODE   READINESS GATES
mypod   1/1     Running   0          18s   10.5.1.5   node2   <none>           <none>
```

If I delete and create an pod also it defaultly create an pod in node 2



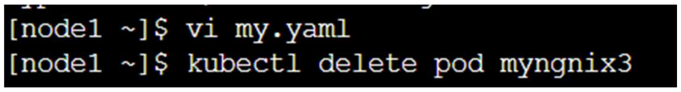
```
[node1 ~]$ kubectl delete pod mypod
pod "mypod" deleted
[node1 ~]$ kubectl create -f
.kube/        .pki/         shedule.yaml
[node1 ~]$ kubectl create -f shedule.yaml
pod/mypod created
[node1 ~]$ kubectl get pod -o wide
NAME    READY   STATUS    RESTARTS   AGE   IP         NODE    NOMINATED NODE   READINESS GATES
mypod   1/1     Running   0          5s    10.5.1.6   node2   <none>           <none>
```

Now once I manual sheduled to node2 and all other the shedule node will be located in node3

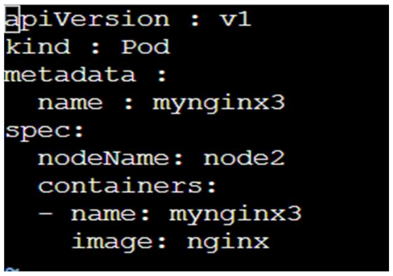


```
[node1 ~]$ kubectl run myngnix --image=nginx
pod/myngnix created
[node1 ~]$ kubectl run myngnix1 --image=nginx
pod/myngnix1 created
[node1 ~]$ kubectl get pod
NAME       READY   STATUS    RESTARTS   AGE
myngnix    1/1     Running   0          11s
myngnix1   1/1     Running   0          4s
mypod      1/1     Running   0          69m
[node1 ~]$ kubectl get pod -owide
NAME       READY   STATUS    RESTARTS   AGE   IP         NODE    NOMINATED NODE   READINESS GATES
myngnix    1/1     Running   0          18s   10.5.2.2   node3   <none>           <none>
myngnix1   1/1     Running   0          11s   10.5.2.3   node3   <none>           <none>
mypod      1/1     Running   0          69m   10.5.1.6   node2   <none>           <none>
[node1 ~]$ kubectl run myngnix3 --image=nginx
pod/myngnix3 created
[node1 ~]$ kubectl run myngnix4 --image=nginx
pod/myngnix4 created
[node1 ~]$ kubectl get pod -owide
NAME       READY   STATUS    RESTARTS   AGE   IP         NODE    NOMINATED NODE   READINESS GATES
myngnix    1/1     Running   0          50s   10.5.2.2   node3   <none>           <none>
myngnix1   1/1     Running   0          43s   10.5.2.3   node3   <none>           <none>
myngnix3   1/1     Running   0          12s   10.5.2.4   node3   <none>           <none>
myngnix4   1/1     Running   0          4s    10.5.2.5   node3   <none>           <none>
mypod      1/1     Running   0          69m   10.5.1.6   node2   <none>           <none>
[node1 ~]$
```

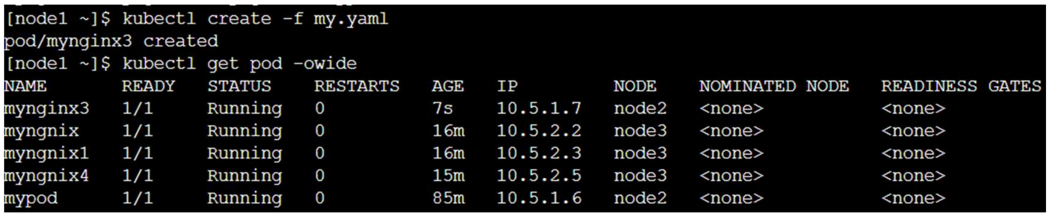
Once I deleted the exit pod and then I created the same pod in the nodename of node2 so now the manual shedule will shedule pod (mynginx3) into the node2.



```
[node1 ~]$ vi my.yaml
[node1 ~]$ kubectl delete pod myngnix3
```



```
apiVersion : v1
kind : Pod
metadata :
  name : mynginx3
spec:
  nodeName: node2
  containers:
  - name: mynginx3
    image: nginx
```



```
[node1 ~]$ kubectl create -f my.yaml
pod/mynginx3 created
[node1 ~]$ kubectl get pod -owide
NAME        READY   STATUS    RESTARTS   AGE   IP           NODE    NOMINATED NODE   READINESS GATES
mynginx3    1/1     Running   0          7s    10.5.1.7     node2   <none>           <none>
myngnix     1/1     Running   0          16m   10.5.2.2     node3   <none>           <none>
myngnix1    1/1     Running   0          16m   10.5.2.3     node3   <none>           <none>
myngnix4    1/1     Running   0          15m   10.5.2.5     node3   <none>           <none>
mypod       1/1     Running   0          85m   10.5.1.6     node2   <none>           <none>
```