Master Node Taint Problem:

1. If you create a single node cluster using kubeadm, then it would be master node. Pods do not run on master node and you would get following status:

```
devops@kubeubnode1:~$ kubectl get pods
NAME                                  READY    STATUS    RESTARTS
AGE
python-application-5bf5458d6f-2zfmd   0/1      Pending   0
6m9s
python-application-5bf5458d6f-gj8bm   0/1      Pending   0
6m9s
python-application-5bf5458d6f-j6v9l   0/1      Pending   0
6m9s
```

2. When you check the details of the pending pod, you would see at the bottom, the log information.

```
devops@kubeubnode1:~$ kubectl describe pod python-application-
5bf5458d6f-2zfmd

  Type      Reason           Age                      From
Message
  ----      ------           ----                     ----
-------
  Warning   FailedScheduling  25s (x10 over 8m28s)   default-scheduler
0/1 nodes                                are available: 1 node(s)
had taint {node-role.kubernetes.io/master: }, that the
pod didn't tolerate.
```

3. Check the details of the master node to learn about the taint on the master node.

```
devops@kubeubnode1:~$ kubectl describe node kubeubnode1
Name:               kubeubnode1
Roles:              control-plane,master

CreationTimestamp:  Fri, 02 Jul 2021 05:58:56 +0000
Taints:             node-role.kubernetes.io/master:NoSchedule
Unschedulable:      false
```

4. Untaint the master node using the following command

```
devops@kubeubnode1:~$ kubectl get nodes
NAME          STATUS   ROLES                   AGE   VERSION
kubeubnode1   Ready    control-plane,master    15m   v1.21.2

devops@kubeubnode1:~$ kubectl taint nodes kubeubnode1 node-
role.kubernetes.io/master:NoSchedule-
node/kubeubnode1 untainted
```

5. Check whether the master node is untainted.

```
devops@kubeubnode1:~$ kubectl describe node kubeubnode1
Name:               kubeubnode1
Roles:              control-plane,master

CreationTimestamp:  Fri, 02 Jul 2021 05:58:56 +0000
Taints:             <none>
Unschedulable:      false
```

6. Now you would see your pods running on Master node.

```
devops@kubeubnode1:~$ kubectl get pods
NAME                                   READY   STATUS    RESTARTS
AGE
python-application-5bf5458d6f-2zfmd    1/1     Running   0
15m
python-application-5bf5458d6f-gj8bm    1/1     Running   0
15m
python-application-5bf5458d6f-j6v9l    1/1     Running   0
15m
```