Assign Pod to a Node

Add a label to a node

1. List the nodes in your cluster:
2. **kubectl get nodes**

The output is similar to this:

**NAME STATUS AGE VERSION**

**worker0 Ready 1d v1.6.0+fff5156**

**worker1 Ready 1d v1.6.0+fff5156**

**worker2 Ready 1d v1.6.0+fff5156**

1. Chose one of your nodes, and add a label to it:
2. **kubectl label nodes <your-node-name> disktype=ssd**

where **<your-node-name>** is the name of your chosen node.

1. Verify that your chosen node has a **disktype=ssd** label:
2. **kubectl get nodes --show-labels**

The output is similar to this:

**NAME STATUS AGE VERSION LABELS**

**worker0 Ready 1d v1.6.0+fff5156 ...,disktype=ssd,kubernetes.io/hostname=worker0**

**worker1 Ready 1d v1.6.0+fff5156 ...,kubernetes.io/hostname=worker1**

**worker2 Ready 1d v1.6.0+fff5156 ...,kubernetes.io/hostname=worker2**

In the preceding output, you can see that the **worker0** node has a **disktype=ssd** label.

Create a pod that gets scheduled to your chosen node

This pod configuration file describes a pod that has a node selector, **disktype: ssd**. This means that the pod will get scheduled on a node that has a **disktype=ssd** label.

| [**pod.yaml**](https://raw.githubusercontent.com/kubernetes/website/master/docs/tasks/configure-pod-container/pod.yaml) |
| --- |
| **apiVersion: v1**  **kind: Pod**  **metadata:**  **name: nginx**  **labels:**  **env: test**  **spec:**  **containers:**  **- name: nginx**  **image: nginx**  **imagePullPolicy: IfNotPresent**  **nodeSelector:**  **disktype: ssd** |

1. Use the configuration file to create a pod that will get scheduled on your chosen node:
2. **kubectl create -f https://k8s.io/docs/tasks/configure-pod-container/pod.yaml**
3. Verify that the pod is running on your chosen node:
4. **kubectl get pods --output=wide**

The output is similar to this:

**NAME READY STATUS RESTARTS AGE IP NODE**

**nginx 1/1 Running 0 13s 10.200.0.4 worker0**