**Assignment 22 – Kubernetes Test Questions 11**

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**Questions:**

**Create** a **YAML** file to define a **pod named new-gpu** that uses the **busybox image**.

Use **nodeSelector** to ensure the pod is **scheduled only on nodes** with the **label type=cpu** ~~and restore the backup at~~ **~~var/lib/mynewbackup~~**.

**References:**

* [Pods | Kubernetes](https://kubernetes.io/docs/concepts/workloads/pods/#using-pods)

**Steps:**

1. **Create** a **YAML script**, **nano new-gpu.yml**

apiVersion: v1

kind: Pod

metadata:

  name: new-gpu

spec:

  containers:

  - name: new-gpu

    image: busybox

  nodeSelector:

    type: cpu

1. Apply the script and check pod status, **k apply -f new-gpu.yml**
   1. **k get pod**
   2. A screenshot of a computer program

      Description automatically generated
2. Pod status is pending because of no nodes has label **cpu**. Check nodes’ label, **k get nodes node01 --show-labels**
   1. A screen shot of a computer

      Description automatically generated
3. **Apply** **label cpu** on node01, **k label nodes node01 type=cpu**
   1. A screen shot of a computer

      Description automatically generated
4. Facing issue on pod not running despite already labelled node01 with cpu
   1. A screenshot of a computer program

      Description automatically generated
   2. A screen shot of a computer

      Description automatically generated
5. **Restart** **KillerCoda** and try again from the first step
6. Pod **status changed** to completed
   1. A screenshot of a computer program

      Description automatically generated
   2. A black background with white text

      Description automatically generated