A close up of a logo

Description automatically generated

**Lesson 5 Demo 6**

**Understanding Scheduling Policies**



Steps to be followed:

1. Defining Scheduling policies

**Step 1: Defining Scheduling policies**

1. Create a policy config file. Let’s call it policyconfig.json:

***{***

***"kind": "Policy",***

***"apiVersion": "v1",***

***"predicates": [***

***{***

***"name": "CheckNodeUnschedulable"***

***},***

***{***

***"name": "CheckVolumeBinding"***

***},***

***{***

***"name": "GeneralPredicates"***

***},***

***{***

***"name": "MatchInterPodAffinity"***

***},***

***{***

***"name": "MaxEBSVolumeCount"***

***},***

***{***

***"name": "MaxGCEPDVolumeCount"***

***},***

***{***

***"name": "MaxAzureDiskVolumeCount"***

***},***

***{***

***"name": "MaxCSIVolumeCountPred"***

***},***

***{***

***"name": "NoDiskConflict"***

***},***

***{***

***"name": "NoVolumeZoneConflict"***

***},***

***{***

***"name": "PodToleratesNodeTaints"***

***}***

***],***

***"priorities": [***

***{***

***"name": "ServiceSpreadingPriority",***

***"weight": 1***

***},***

***{***

***"name": "EqualPriority",***

***"weight": 1***

***},***

***{***

***"name": "ImageLocalityPriority",***

***"weight": 1***

***},***

***{***

***"name": "MostRequestedPriority",***

***"weight": 1***

***},***

***{***

***"name": "SelectorSpreadPriority",***

***"weight": 1***

***},***

***{***

***"name": "InterPodAffinityPriority",***

***"weight": 1***

***},***

***{***

***"name": "LeastRequestedPriority",***

***"weight": 1***

***},***

***{***

***"name": "BalancedResourceAllocation",***

***"weight": 1***

***},***

***{***

***"name": "NodePreferAvoidPodsPriority",***

***"weight": 10000***

***},***

***{***

***"name": "NodeAffinityPriority",***

***"weight": 1***

***},***

***{***

***"name": "TaintTolerationPriority",***

***"weight": 1***

***},***

***{***

***"name": "GPUAllocationPriority",***

***"weight": 10***

***}***

***],***

***"extenders" : [***

***{***

***"urlPrefix": "http://127.0.0.1:12346/scheduler",***

***"filterVerb": "filter",***

***"bindVerb": "bind",***

***"prioritizeVerb": "prioritize",***

***"weight": 5,***

***"enableHttps": false,***

***"nodeCacheCapable": false***

***}***

***],***

***"hardPodAffinitySymmetricWeight" : 10,***

***"alwaysCheckAllPredicates" : false***

***}***

1. Run kube scheduler as shown below:

***sudo kube-scheduler --policy-config-file policyconfig.json* **