



## SCHEDULING

## Scheduling

### Pod Specification

Most scheduling decisions can be made as part of the Podspec. A pod specification contains several fields that inform scheduling, namely:

- **nodeName**
- **nodeSelector**
- **affinity**
- **schedulerName**
- **tolerations**

*Click on the boxes to learn more about the fields in a Pod specification.*

#### Fields in a Pod Specification

##### nodeName and nodeSelector

Close ^

The **nodeName** and **nodeSelector** options allow a Pod to be assigned to a single node or a group of nodes with particular labels.

##### affinity and anti-affinity

Close ^

Affinity and anti-affinity can be used to require or prefer which node is used by the scheduler. If using a preference instead, a matching node is chosen first, but other nodes would be used if no match is present.

##### taints and tolerations

Close ^

The use of taints allows a node to be labeled such that Pods would not be scheduled for some reason, such as the cp node after initialization. A toleration allows a Pod to ignore the taint and be scheduled assuming other requirements are met.

## schedulerName

[Close ^](#)

Should none of the options above meet the needs of the cluster, there is also the ability to deploy a custom scheduler. Each Pod could then include a **schedulerName** to choose which scheduler to use.