

# Node Affinity

Definition: node affinity is a k8s features that allows you to specify preference for scheduling pods onto particular nodes in the cluster.

Purpose: its used to influence pod placement based on node characteristics or constraints.

Types of Node Affinity:

Type=1

***RequiredDuringSchedulingIgnoredDuringExecution***

(Hard Requirement)

. Pods will only be scheduled on nodes that math the specified affinity rules. ()

Type=2

*PreferredDuringSchedulingIgnoredDuringExecution*

(Soft Requirement)

. Pods prefer to be scheduled on nodes that match the specified affinity rules, **but its not a strict requirement.**