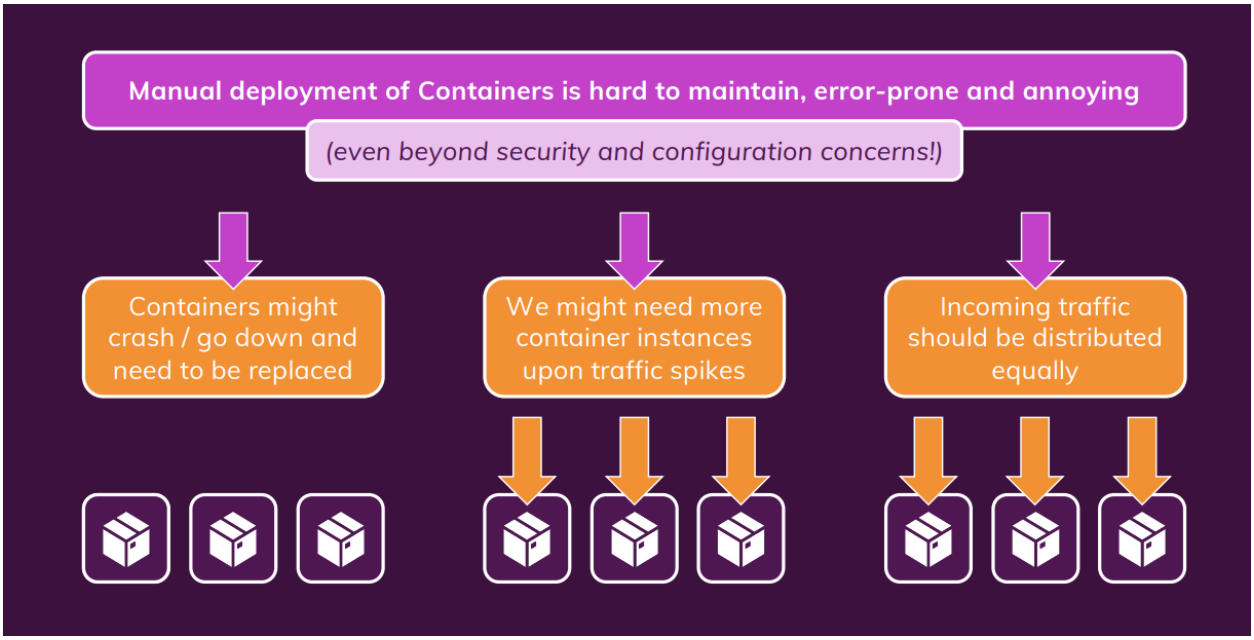
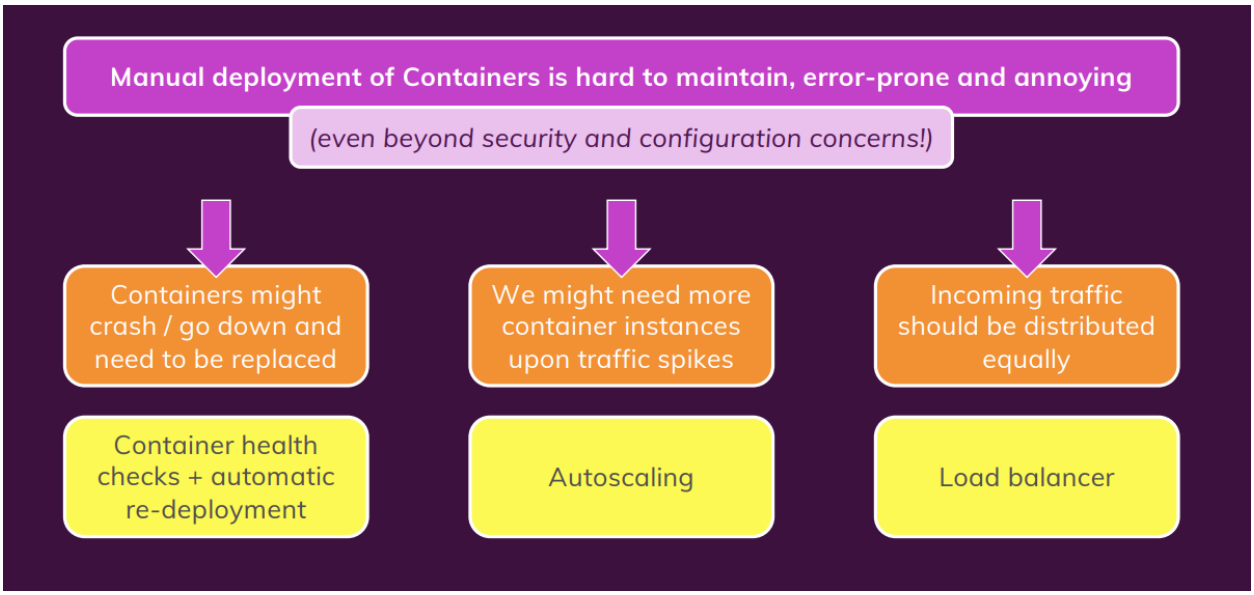
13 - Getting Started with Kubernetes

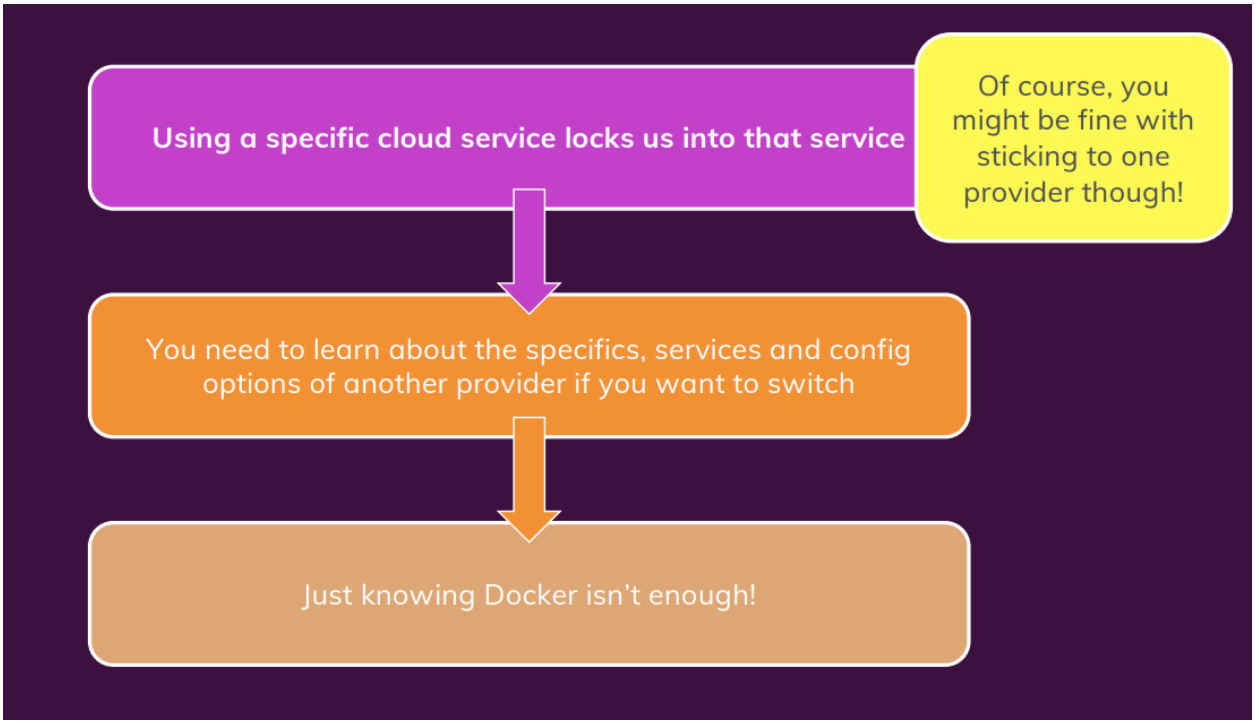
The Problem we currently have



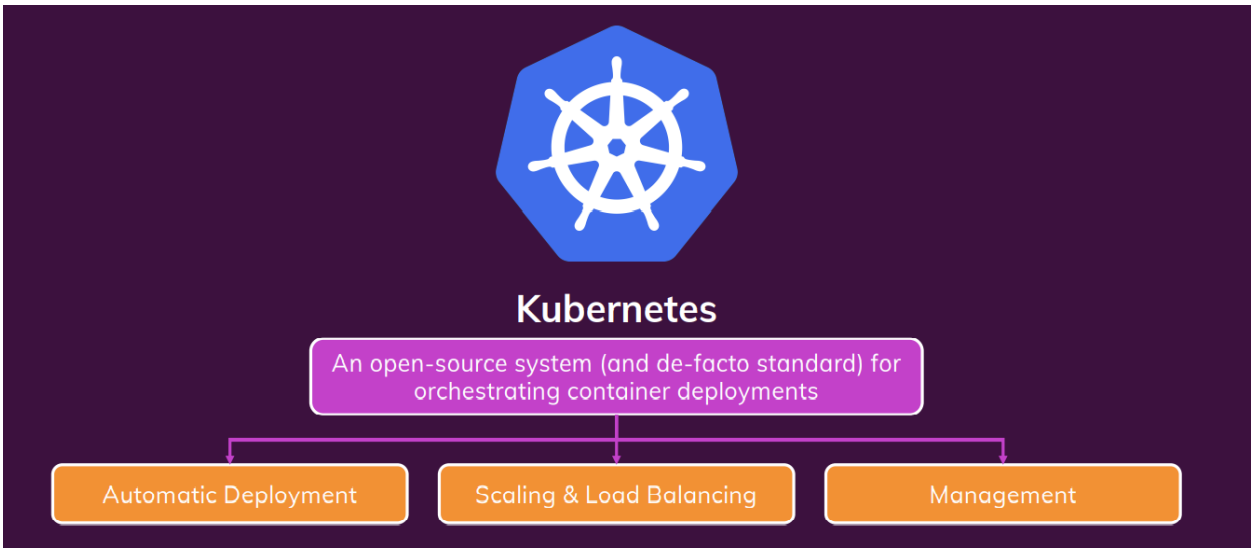
Some Services, like EWS already offer a solution to this problem



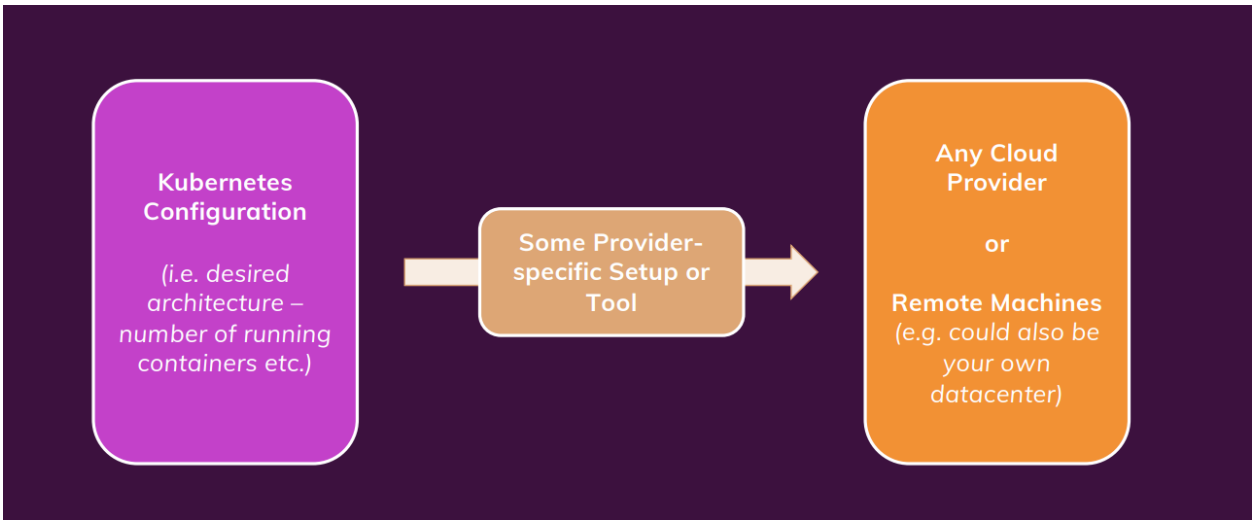
But that locks us in into a single Web Service and we have to use only their tools



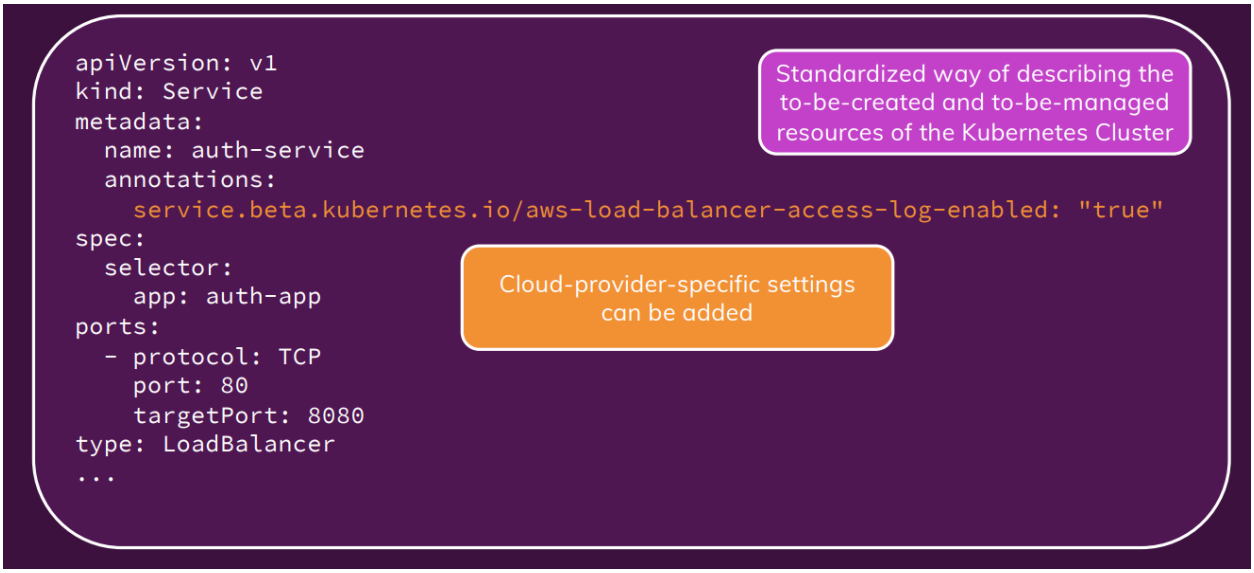
What is Kubernetes



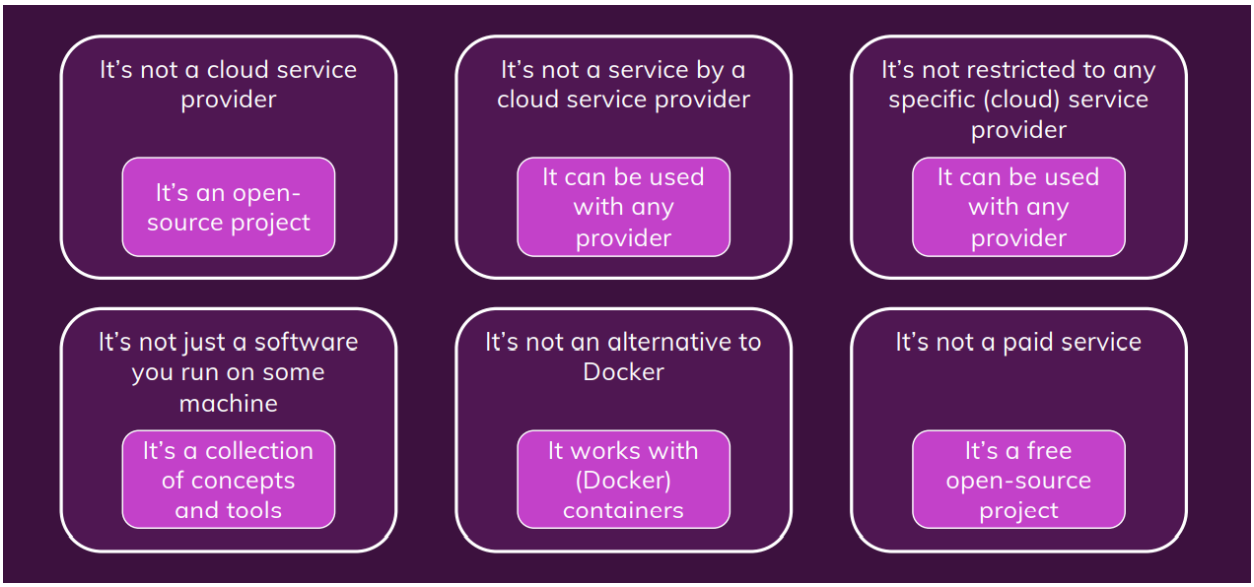
Kubernetes is like **Docker Compose** for **MULTIPLE machines**



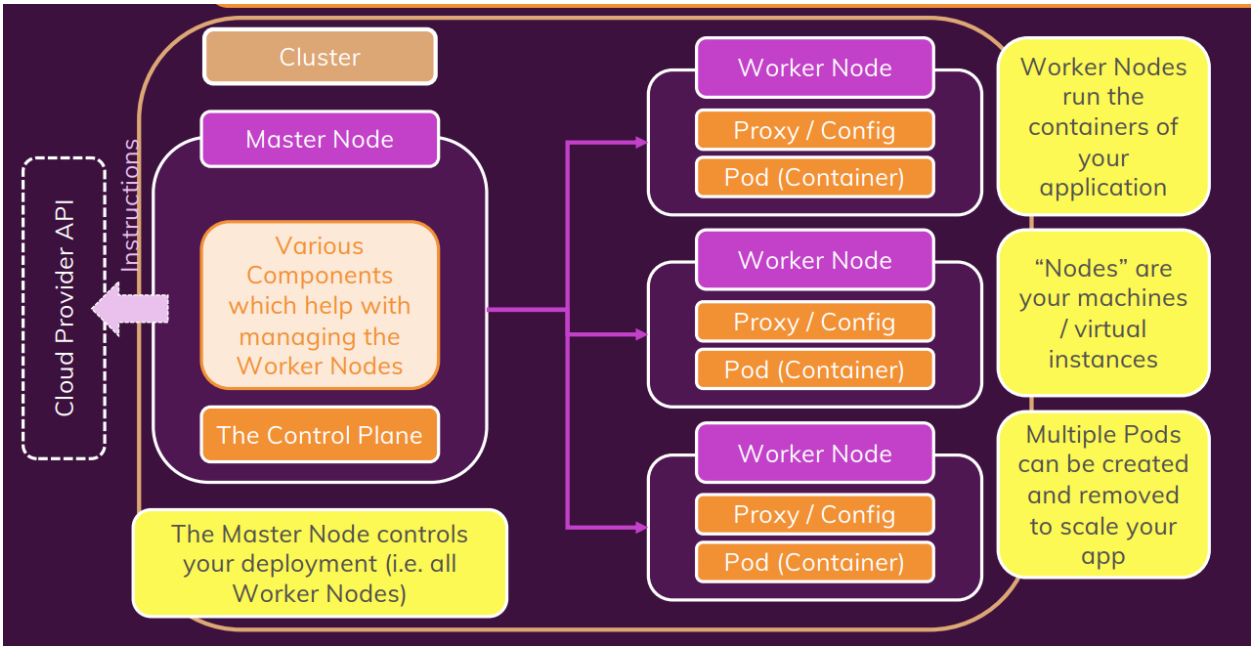
The Syntax



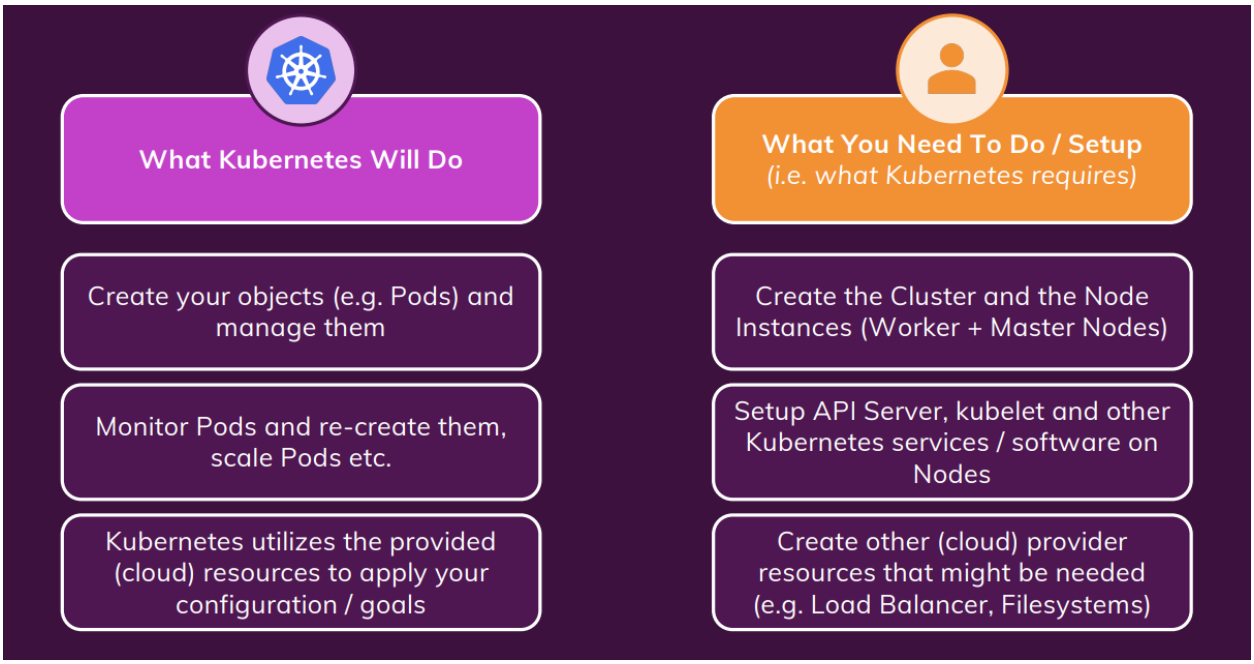
What Kubernetes is NOT



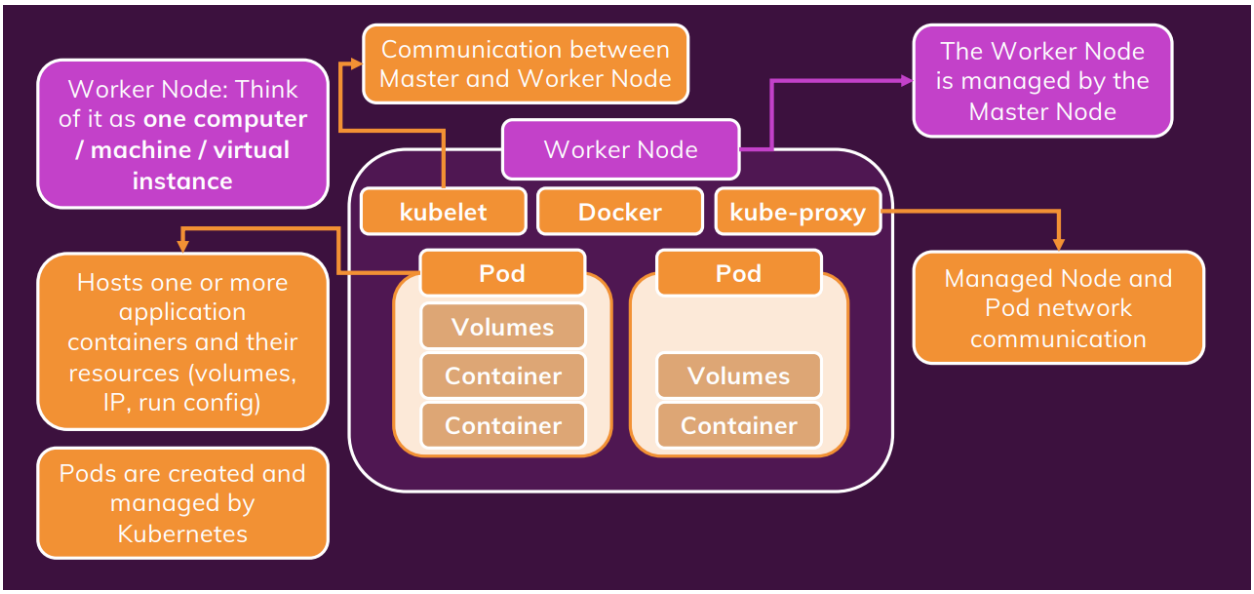
Kubernetes Architecture



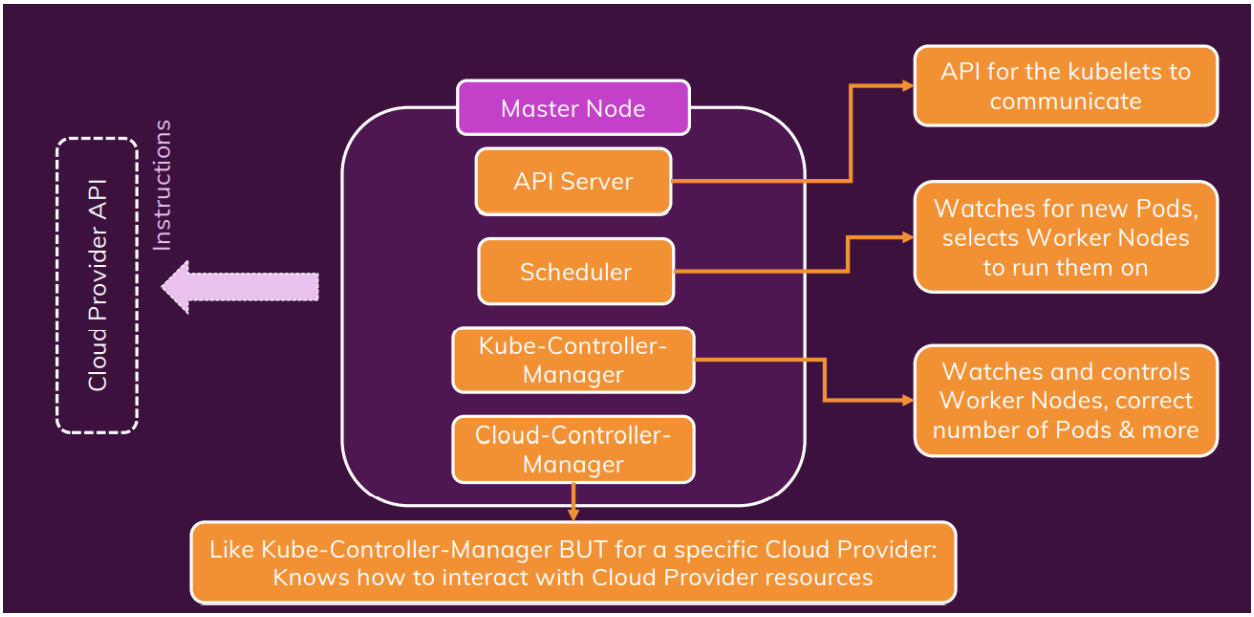
The work you do vs the work Kubernetes does



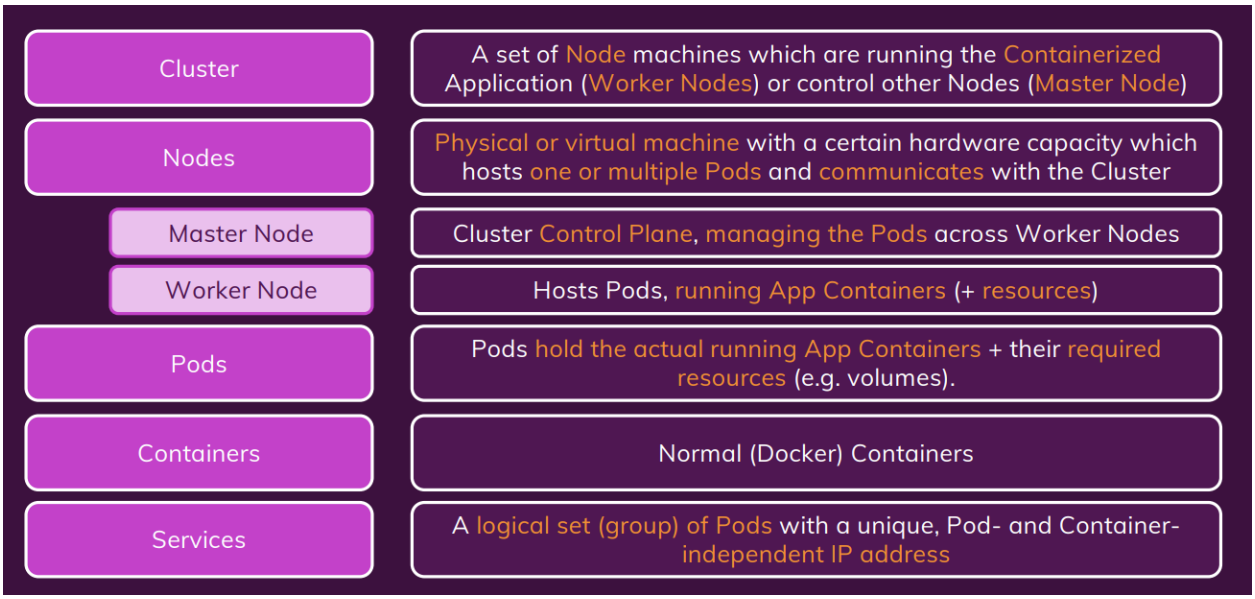
A closer look at the Worker Nodes



A closer look at Master Nodes



Summary and Core Concepts


Cluster
A set of Node machines which are running the Containerized Application (Worker Nodes) or control other Nodes (Master Node)
Nodes
Physical or virtual machine with a certain hardware capacity which hosts one or multiple Pods and communicates with the Cluster
Master Node
Cluster Control Plane, managing the Pods across Worker Nodes
Worker Node
Hosts Pods, running App Containers (+ resources)
Pods
Pods hold the actual running App Containers + their required resources (e.g. volumes).
Containers
Normal (Docker) Containers
Services
A logical set (group) of Pods with a unique, Pod- and Container-independent IP address