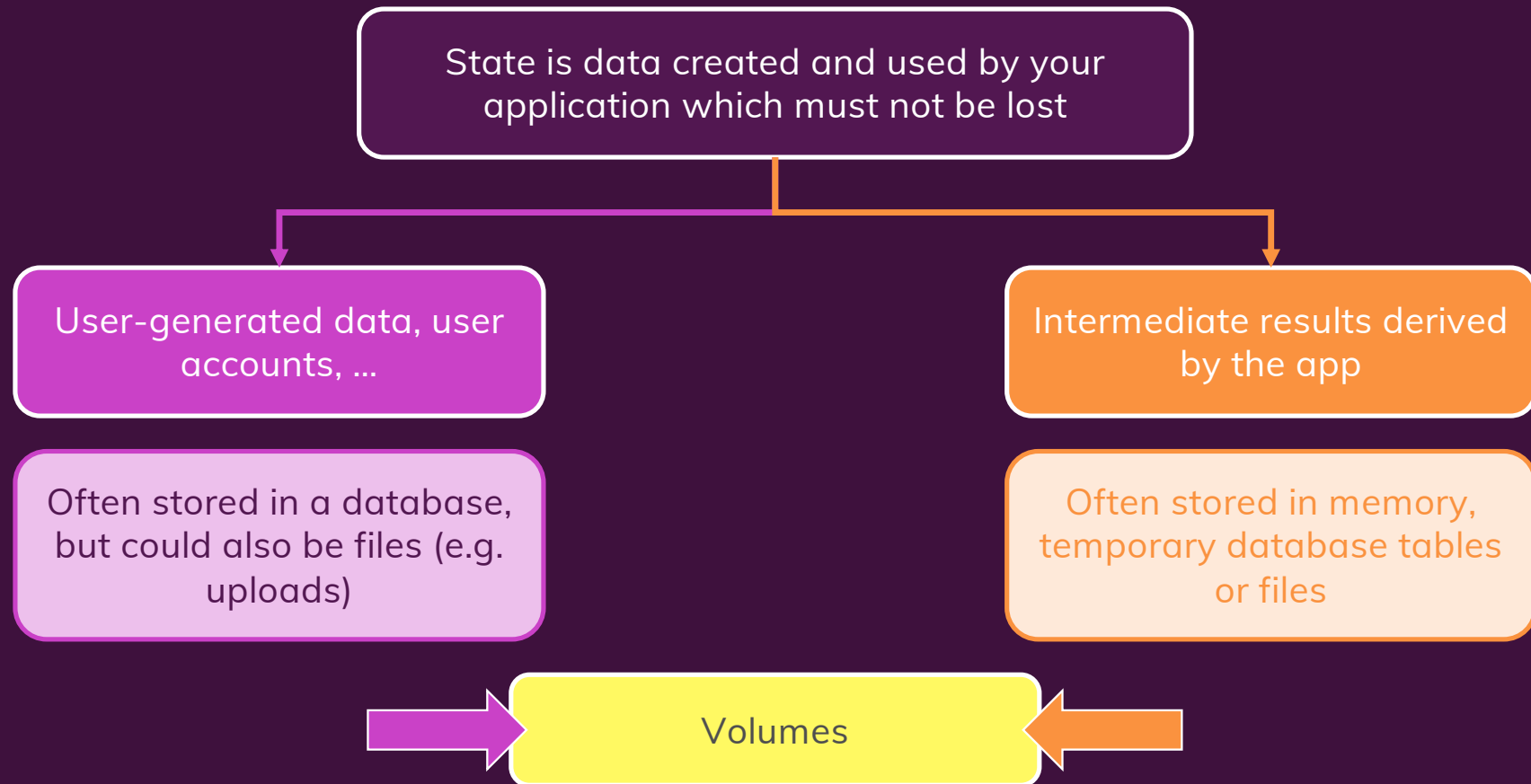
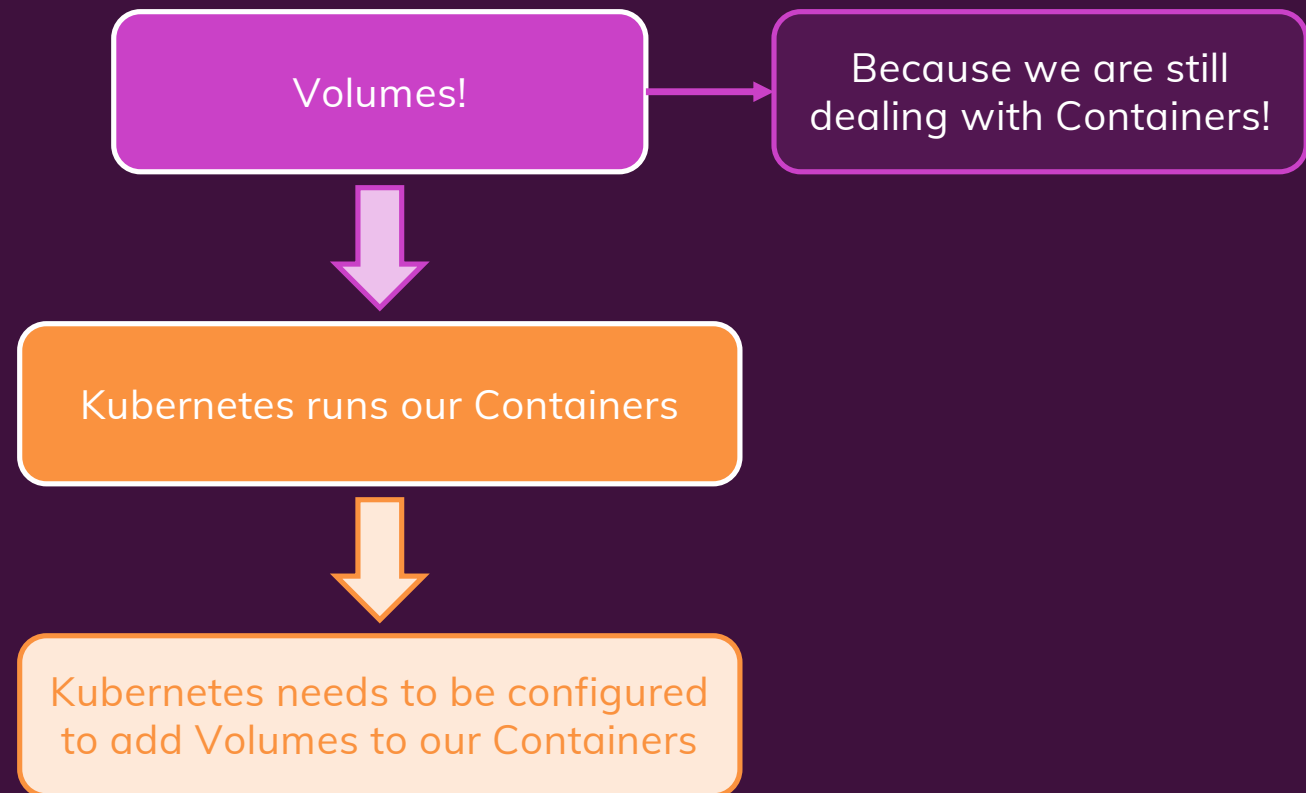


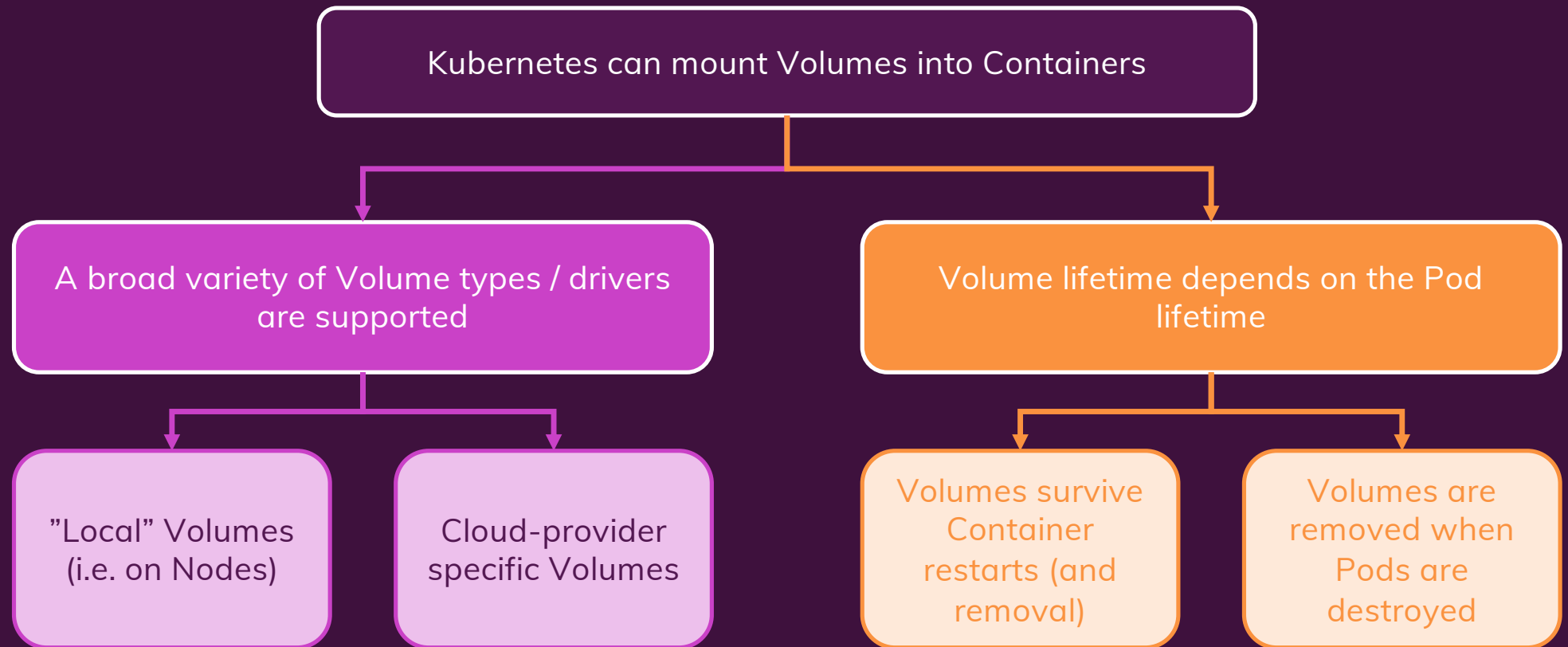
Understanding “State”



We Already Know The Solution!



Kubernetes & Volumes



Kubernetes Volumes vs Docker Volumes

Kubernetes Volumes

Supports many different Drivers
and Types

Volumes are not necessarily
persistent

Volumes survive Container restarts
and removals

Docker Volumes

Basically no Driver / Type Support

Volumes persist until manually
cleared

Volumes survive Container restarts
and removals

Persistent Volumes

Volumes are destroyed when a Pod is removed

hostPath partially works around that in “One-Node” environments

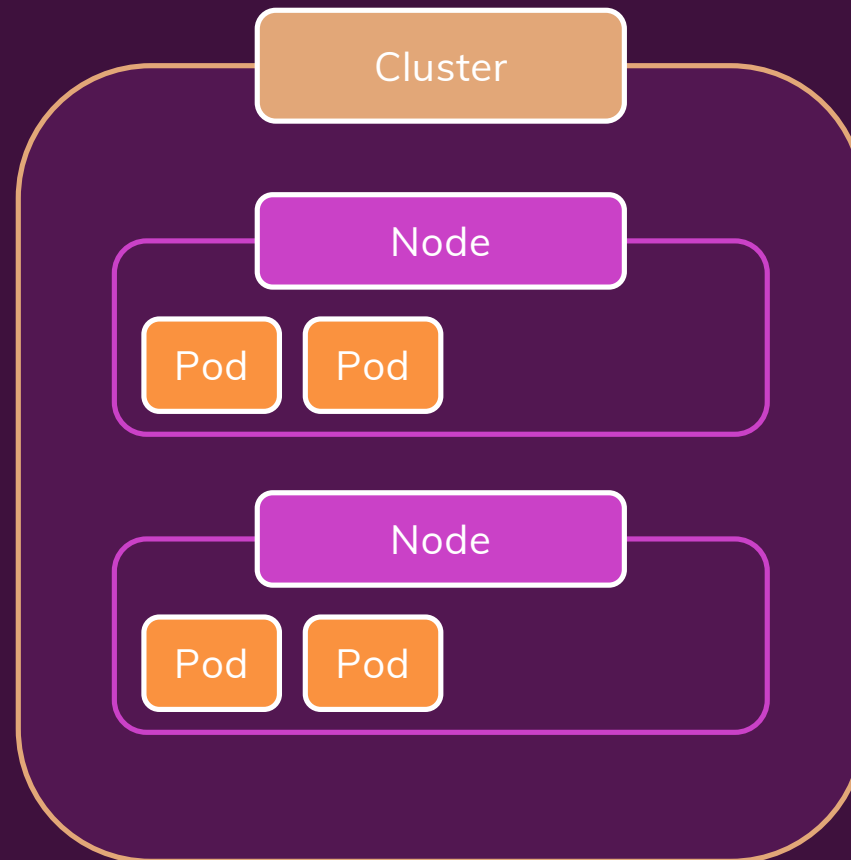


Pod- and Node-independent Volumes are sometimes required

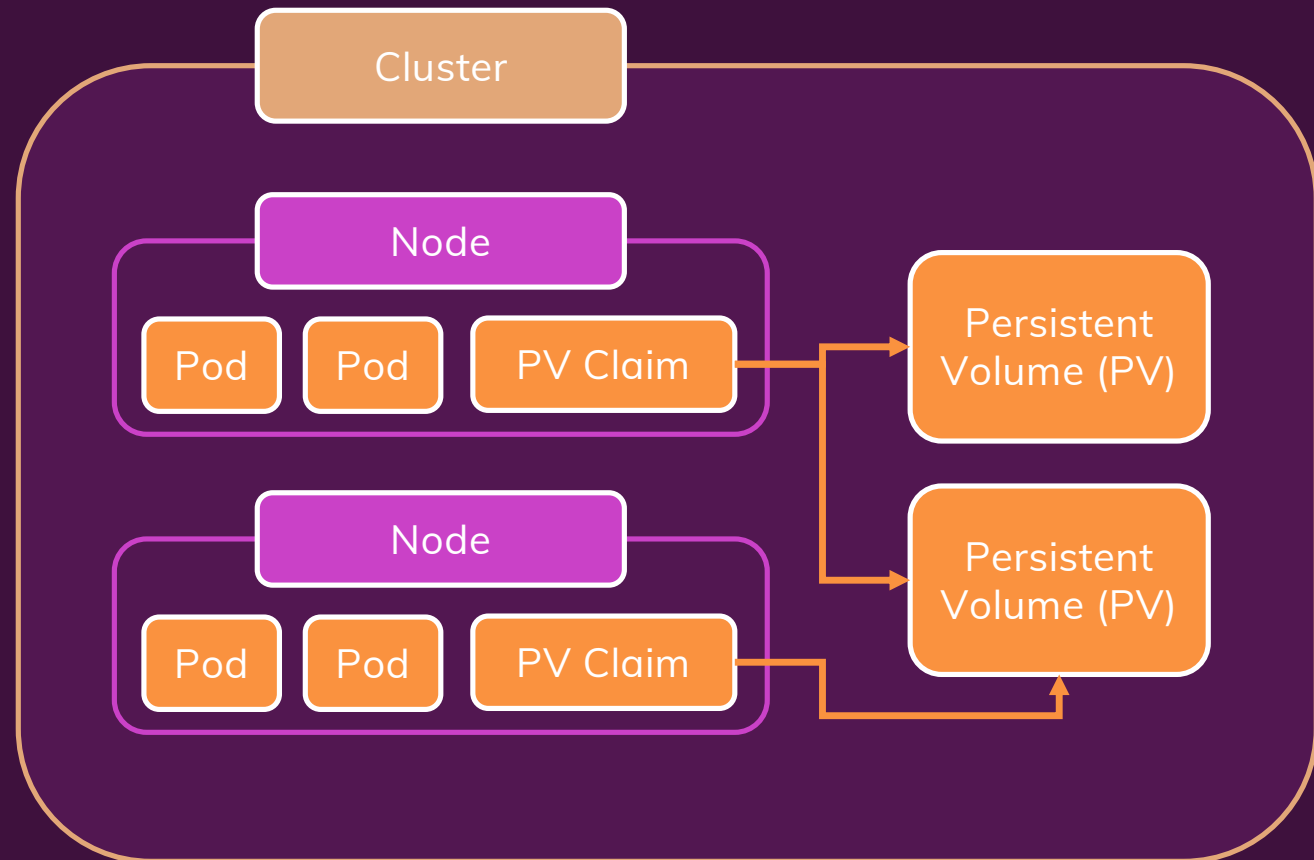


Persistent Volumes

From Volumes To Persistent Volumes



Persistent Volumes & Persistent Volume Claims



"Normal" Volumes vs Persistent Volumes

Volumes allow you to persist data

"Normal" Volumes

Volume is attached to Pod and Pod lifecycle

Defined and created together with Pod

Repetitive and hard to administer on a global level

Persistent Volumes

Volume is a standalone Cluster resource (NOT attached to a Pod)

Created standalone, claimed via a PVC

Can be defined once and used multiple times