

Aspect	Deployment	StatefulSet
-----	-----	-----
<b>Data persistence</b>	Stateless	Stateful
<b>Pod name and identity</b>	Pods are assigned an ID that consists of the deployment name and a random hash to generate a temporarily unique identity	Each pod gets a persistent identity consisting of the StatefulSet name and a sequence number
<b>Interchangeability</b>	Pods are identical and can be interchanged	Pods in a StatefulSet are neither identical nor interchangeable
<b>Behavior</b>	A pod can be replaced by a new replica at any time	Pods retain their identity when rescheduled on another node
<b>Volume claim</b>	All replicas share a PVC and a volume	Each pod gets a unique volume and PVC
<b>Allowed volume access mode(s)</b>	ReadWriteMany and ReadOnlyMany	ReadWriteOnce
<b>Pod interaction</b>	Requires a service to interact with the pods	The headless service handles pod network identities
<b>Order of pod creation</b>	Pods are created and deleted randomly	Pods are created in a strict sequence and cannot be deleted randomly