Kubernetes Storage

Non-Persistent Storage

By default, Kubernetes storage is **temporary** (non-persistent). **Any storage** defined as **part of a container** in a Kubernetes Pod, is held in the host's **temporary storage space**, which **exists** as long as the **pod exists**, and is then removed. **Container storage is portable, but not durable**.

Persistent Storage

Kubernetes also supports a variety of **persistent storage models**, including **files, block storage, object storage, and cloud services** belonging to these and additional categories.
Storage can be **referenced** directly from **within a pod**, but this **violates the pod's portability** principles and is **not recommended**. Instead, pods should use **Persistent Volumes** and **Persistent Volume Claims (PV/PVC)** to define the storage requirements of their applications.