Summary

- Configuration maps are objects that provide mechanisms to inject configuration data into containers.

- The values in secrets are always encoded (not encrypted).

- A PVC resource represents a request from an application for storage, and specifies the essential storage characteristics, such as the capacity and access mode.

- Kubernetes supports two volume modes for persistent volumes: `Filesystem` and `Block`.

- Storage classes are a way to describe types of storage for the cluster and to provision dynamic storage on demand.

- A reclaim policy determines what happens to the data on a PV after the PVC is deleted.

- A storage class with block volume mode support can improve performance for applications that can use raw block devices.

- A stateful set is the representation of a set of pods with consistent identities.

- Each stateful set pod has its own unique PV.