Open Standards

- **Definition:**
  - Public, open specifications for interoperability.
  - Avoids vendor lock-in, promotes flexibility and integration.
- **CNCF & Open Standards:**
  - Promotes open standards for cloud-native technologies (e.g., Kubernetes, Helm).
  - Ensures cross-platform compatibility.
- **OCI (Open Container Initiative):**
  - Defines standards for container runtimes and images.
  - **runC:** First open standard for container runtimes.
  - **Runtime Specification:** Standardizes container execution.
  - **Image Specification:** Defines format for container images (layers, metadata).
  - **Distribution Specification:** API for managing container images across systems.
- **Container Storage Interface (CSI):**
  - Open standard for storage integration in container orchestration.
  - Allows compatibility with multiple storage solutions through a single plugin.
- **Container Runtime Interface (CRI):**
  - API for Kubernetes to interact with different container runtimes.
  - Provides flexibility in choosing containerization solutions.
- **Benefits of Open Standards:**
  - Promotes interoperability between vendors and technologies.
  - Ensures flexibility, avoiding reliance on a single vendor.