# Deployment in Kubernetes

**Problems with ReplicaSet:**

- When upgrading an application from version 1 to version 2, the ReplicaSet simultaneously deletes all pods and creates new ones.
- Simultaneous deletion of pods leads to downtime, causing the application to be inaccessible to users.

**Deployment:**

- Deployment in Kubernetes uses a rolling update strategy.
- It deletes one pod at a time and creates a new pod, ensuring the application remains accessible throughout the update process.
- Rolling updates minimize downtime and allow continuous availability of the application.
- Deployment also enables easy rollback to a previous version if needed.

**Practical Questions and Resources:**

- For practical examples, command references, and relevant files, please check the GitHub repository here - [https://github.com/devopsproin/certified-kubernetes-administrator].