

Rolling updates and Rollbacks in Kubernetes: Rolling updates allow us to update the configuration of the pods gradually. New pods are added gradually and the old pods are terminated gradually. Using deployment rolling updates we can upgrade the image used by a deployment. The state of deployment is saved which allows us to roll back to any previous versions of the deployment. When an application fails due to an incorrect image or the deployment is unstable, we may want to rollback the Deployment. By default, all of the Deployment's rollout history is kept in the system that can be used later to rollback in case of unstable deployment. We can use this history to rollback anytime we want.

Commands and Argument in Docker: We can run command in either of the way- One way to specify commands when you start a container is by issuing the name of the executable when we run the container. The other way is using CMD in dockerfile. There can only be one CMD instruction in a Dockerfile. If you list more than one CMD then only the last CMD will take effect. The `ENTRYPOINT` instruction says Docker that whatever we have specified there, must be run when the container starts. In other words, if we are to pass in arguments, they will get *appended* to what we have specified there as the `ENTRYPOINT`.

Commands and Argument in Pods: We you can define arguments by using environment variables. To set environment variables, include the `env` or `envFrom` field in the configuration file. The environment variables set using the `env` or `envFrom` field override any environment variables specified in the container image. Environment variables may reference each other, however ordering is important. Variables making use of others defined in the same context must come later in the list. Similarly, avoid circular references.

Environment Variables with Kubernetes secrets: Using Kubernetes secrets we can set environment variables in a Pod's container. The first step is to create a secret in Kubernetes. There are multiple ways to create a secret. Secret help us to keep the data in encrypted form.