# Spark Operator

## Pods

Spark Operator is running its own Pods called ‘spark-operator-xxxx’. One is spark operator controller and second is spark operator webhook (if using webhook).

## Services

Spark Operator is running its own Services called ‘spark-operator-xxxx’.

## Service Accounts

Spark Operator’s Pods are using Service Accounts which need to have proper permissions. We can check what are those Accounts by running:

Kubectl get pod <pod-name> -n <namespace> -o yaml

## Webhooks

Spark Operator uses webhooks to talk to a Kubernetes API server in order to modify resources. Webhook is a Pod. They are using certificates for security. Certificates files are mounted into a webhook Pod.

We can how certificates are mounted it by checking webhook Pod specification:

* kubectl get pod -n <namespace> <webhook-pod-name> -o yaml

# SparkApplication

## Created resources

After deploying SparkApplication resource it creates:

* SparkApplication resource
* Spark Driver Pod
* Spark Executor Pods

## VolumeMounts

When we specify a volumeMount for a SparkApplication resource, then it refers to a path inside of a container in the Spark Driver Pod.