**BUILD AND DEPLOYMENT FRAMEWORK FOR “Absolute API web service”:**

A screenshot of a cell phone

Description automatically generated

1. **Setup:**

* Using Ansible playbook to setup Jenkins server, Miniuke (include local image registry) and initiate helm chart.
* Doing configuration if any.
* Preparing the helm chart and push it to git repository.

1. **Build:**

* Jenkins server will pull the source code from Git repository and build the application base on the source code.
* Then, Jenkins will package Docker image by using Dockerfile and push the image in to the registry.

1. **Deployment:**

* After that Jenkins is going to trigger helm command to upgrade helm chart and deploy new docker image into the Minikube.

1. **Destroy the environment when the demo is over:**

* Trigger Ansible playbook for destroying the framework whenever we’ve done the demo.