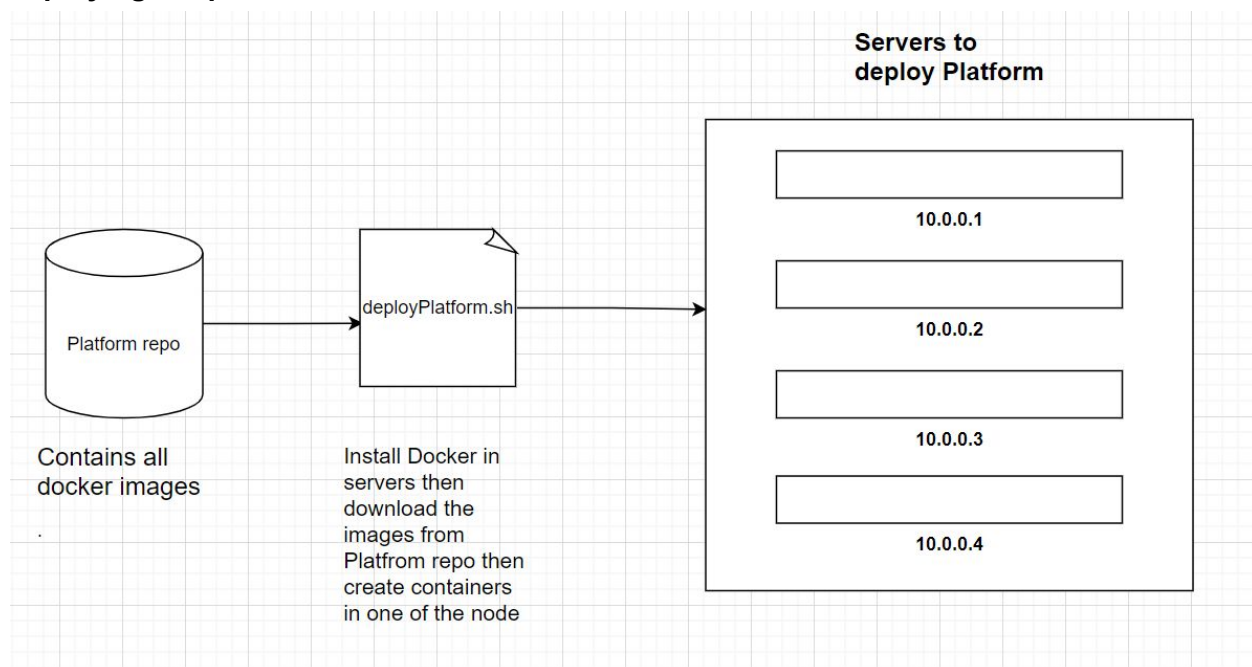# Platform Deployment and Manager

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Our sub team focuses on the following modules

1) Deploying the platform
2) How the application developer will interact with Platform (Platform Manager)

Deploying the platform:

Platform repo: (Search for docker repo)

Platform repo contains the docker images of all the services which are supposed to run in the platform. The following docker image files should be present
1) Platform Manager
2) Scheduler
3) Node Manager
4) Deployment Manager
5) Authorization Service
6) Monitoring Services
7) Sensor Manager
8) Registering a Sensor Service
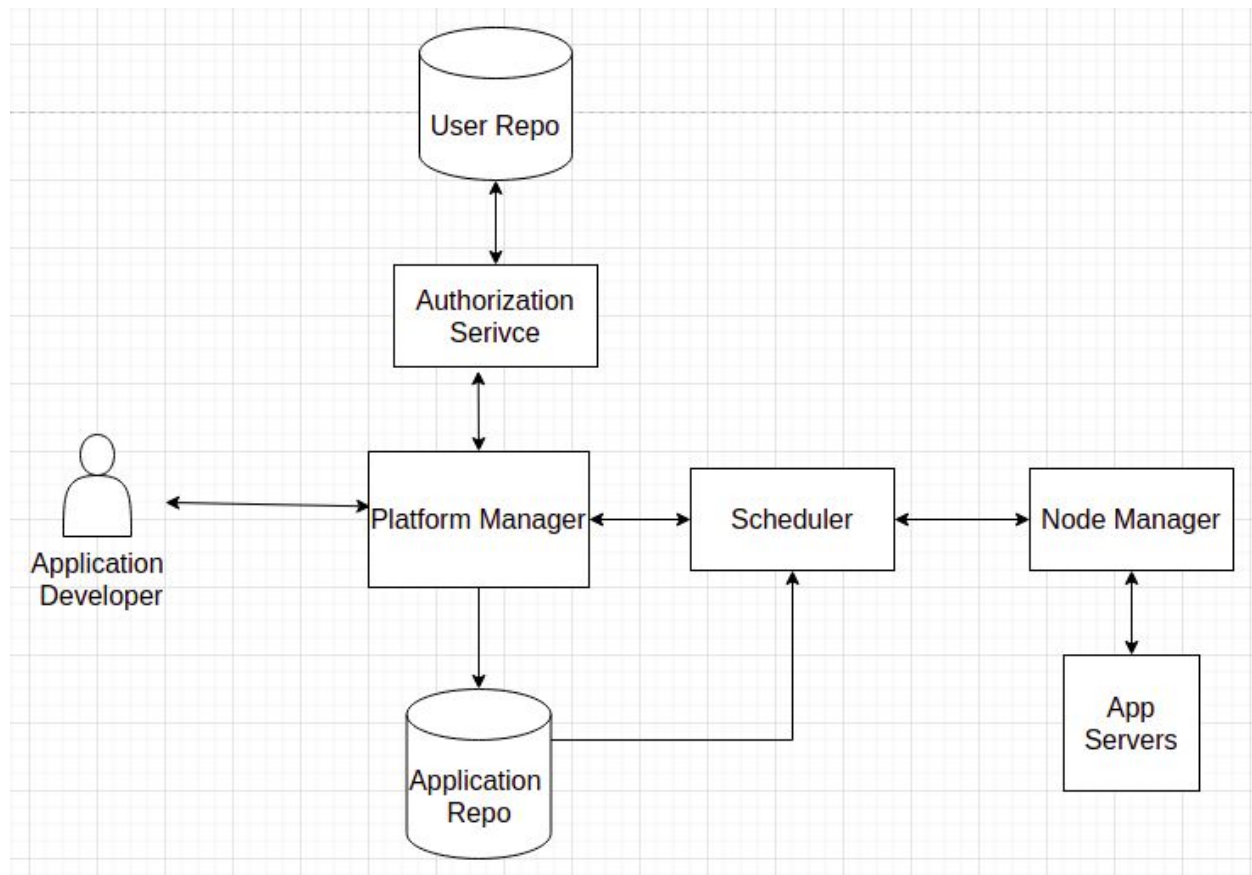9) Action Manager

DeployPlatform.sh :

Input : List of IP addresses where the platform needs to be deployed, location of the platform repo.

Functionalities:
1) Should install docker in all the servers
2) In one of the server (say 10.0.0.1) download all the images from the platform repo and start the container.
3) Now we have servers (10.0.0.2, 10.0.0.3, 10.0.0.4) for deploying the user Applications
4) Install Kafka as a messaging queue

Platform Manager:

This is the interface between Application developer and the platform

Roles and Responsibilities :

1) Provides UI for registering and logging in for the user of the platform(Uses Authorization service)
2) Service to upload or update the respective users application in the Application Repo
3) If the User deploys the application Platform Manager will send the data to the Scheduler to schedule the deployment.