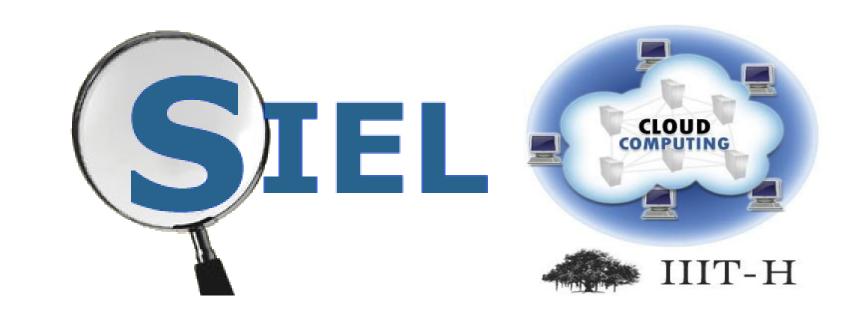


# VISUAL WORK-FLOWS FOR OPENSHIFT

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#### PROBLEM

Identify enterprise work-flows for deploying applications to Openshift and build a client which provides an interface to the Broker-API for simple deployments as well as more complicated work-flows using –

- 1. Keystone authentication
- 2. Openshift REST API
- 3. Abstract interface to create your own work-flows

## CONTRIBUTIONS

We designed and implemented a system which can take as an input, an enterprise workflow for Openshift and then deploys it to the cloud. Some salient features of our project are –

- 1. HTML5 based drag and drop interface for building work-flows.
- 2. Ability to deploy to all Openshift distributions
- 3. Extensible

## ARCHITECTURE Openshift Broker **Openshift REST API** Server (Proxy) HTML/JSON Angular JS Controller DOM Model **Upda**te Watch for Requests updates Controllers Views Directives Compile **AngularJS**

## USER INTERACTIONS Node JS Browser HTTPS Connection — Client App Proxy 1.Creates Application Usjer REST API Calls Openshift Broker Git Deployment 2. Authentication Streamline Authentication REST Server 3. Create a New Gear 4.Configure Cartridge Gears 5.Set Up Git Repository Cartridges





## FUTURE WORK

We would like to extend the application to managing deployed apps as well. Particularly, setting auto-scale parameters and controlling the lifecycle.

We would also like to add a mechanism by which the user can directly deploy his code using our portal rather than having to synchronize Git repositories manually.

## SOURCE CODE

The source code for the back and front end is available available at

https://github.com/subszero/ openshift-workflows

