Bridging the gaps between OpenStack and business logic with Adjutant

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catalyst cloud

An introduction and project update

- A bit of history around the project
- A live demo of Adjutant
- Why it fits an official project

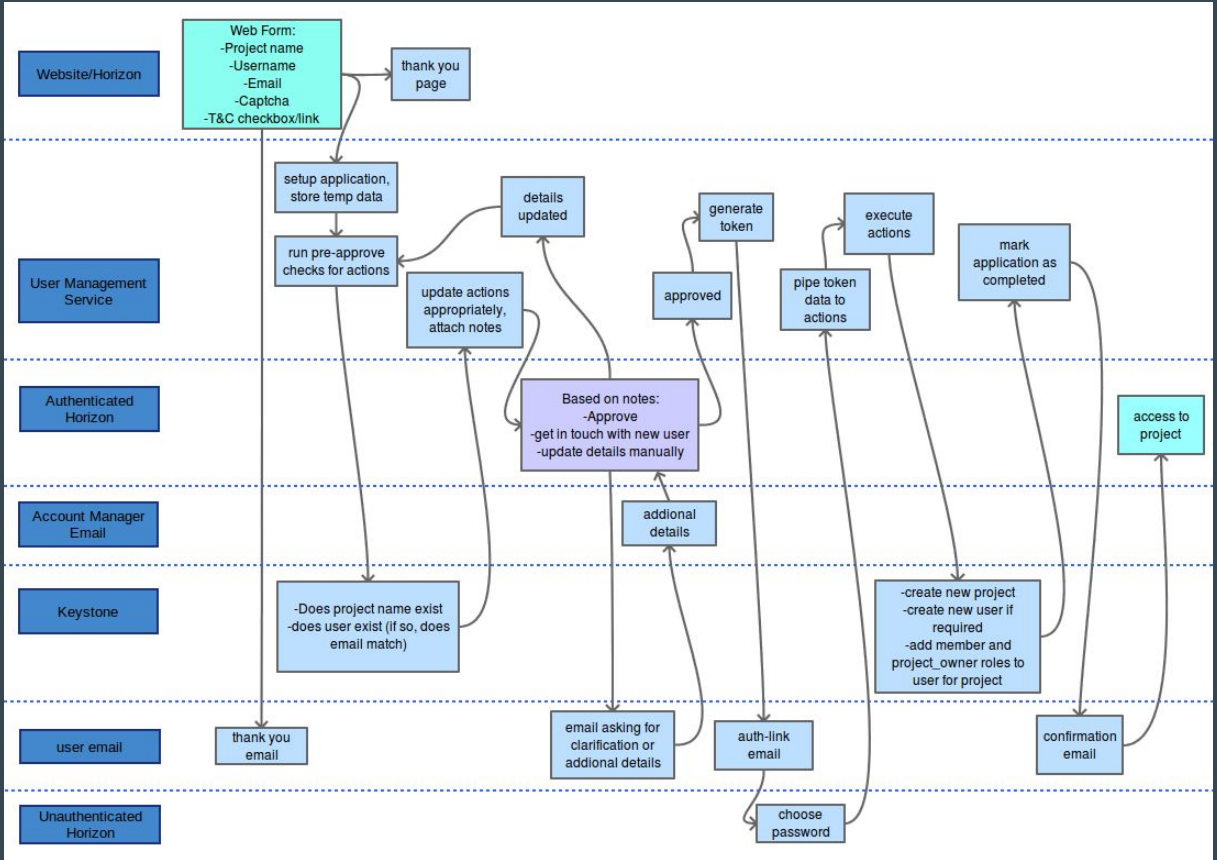
Why does Adjutant exist?

- Deployers need extra business logic
- OpenStack had no existing place for it
- It needed to fit within OpenStack

Customer data doesn't belong in Keystone

- Existing services shouldn't be bloated with unnecessary data
- We shouldn't be building another CRM
- Why not build something to with with existing systems

Adjutant's primary use case: Signup and user registration



Website/Horizon

Web Form:
-Project name
-Username
-Email
-Captcha
-T&C checkbox/link

thank you page

User Management Service

setup application, store temp data

run pre-approve checks for actions

details updated

update actions appropriately, attach notes

approved

generate token

pipe token data to actions

execute actions

mark application as completed

Authenticated Horizon

Based on notes:
-Approve
-get in touch with new user
-update details manually

access to project

Account Manager Email

addional details

Keystone

-Does project name exist
-does user exist (if so, does email match)

-create new project
-create new user if required
-add member and project_owner roles to user for project

user email

thank you email

email asking for clarification or addional details

auth-link email

confirmation email

Unauthenticated Horizon

choose password

Features beyond sign-up

- Allowing non-admin users to invite others to their project.
- Manage the roles of users on your project based on a role hierarchy.
- Letting users reset their password by sending an email token to them.
- Request quota increases for their projects.
- Manage and create child-projects in a single domain environment.

Adjutant plugins

- keep the codebase free of deployer specific code
- adding a lot of flexibility where it is needed

Linking OpenStack to our user data

- Adjutant doesn't solve that problem for you
- it gives you the pieces to make that solution

Why is Adjutant useful to OpenStack

- It's a tough problem space
- No "one size fits all solution"
- Adjutant promotes collab in an area there has never been any

What exactly is Adjutant?

- For users: An API service and Horizon gui for account management actions
- For deployers: a framework to build small custom APIs for these actions, and a service to deploy them in easily that limits those actions by roles

Live demo!

Let’s start, with a sign-up

The future of Adjutant

- Roadmap for Stein
- More flexibility with plugins
- Far future wishlist

Where do we go from here?

- Growing the community around Adjutant
- New developers and contributors
- Continuing to push the project forward

Questions?