

## Objective

Setup Charity platform based on JS Stack on Public Cloud

## Scope

- Assess requirements and provide architectural design
- Setting up CI/CD pipeline using Jenkins
- Enable developer self-sufficient through Jenkins job
- Establish DevOps Process
- Setup environments - Dev, Test and Demo
- Setup web-based log streaming for dev team for debugging

## Challenges

- Cost effective Cloud based setups for Dev, Test, Demo
- Design scalable deployment structure for platform
- Secure Log streaming over web browser

## Technology

- Jenkins
- git
- saltstack
- ansible
- nodeJS
- MongoDB
- JIRA,
- frontail
- Nginx
- LXD
- Linode

## Benefits

- Custom environment dashboards
- Making developers self-sufficient
- Savings on operations cost in Public Cloud using LXD containers
- Enabled secure log streaming in public Cloud using Open Source tools

## Key features

- Setting up platform in Public Cloud with load balancing and high availability
- Almost all open source tools have been used
- Leveraged LXD to create cost effective setups in Public Cloud