Singapore Government Developer Portal

Tech Stack

App Tech Stack

RAILS React	Front end is being developed using Ruby on Rails (RoR) and ReactJs
appian	Back end is being developed using Appian
aws	RoR and Appian DEV, CL, QA environments are deployed in Amazon Web Services (AWS)
Government Private Cloud	RoR and Appian UAT and PROD environments will be deployed in GPC
MOCHA Rspec	RoR developers write Unit Tests using RSpec and MochaJS
TC TeamCity	TeamCity is a build management and continuous integration server
Se Python	QE creates Automated Functional Regression Tests using Robot Framework (Selenium + Python)
FitNesse	Appian developers create Feature Tests using FitNesse test tool

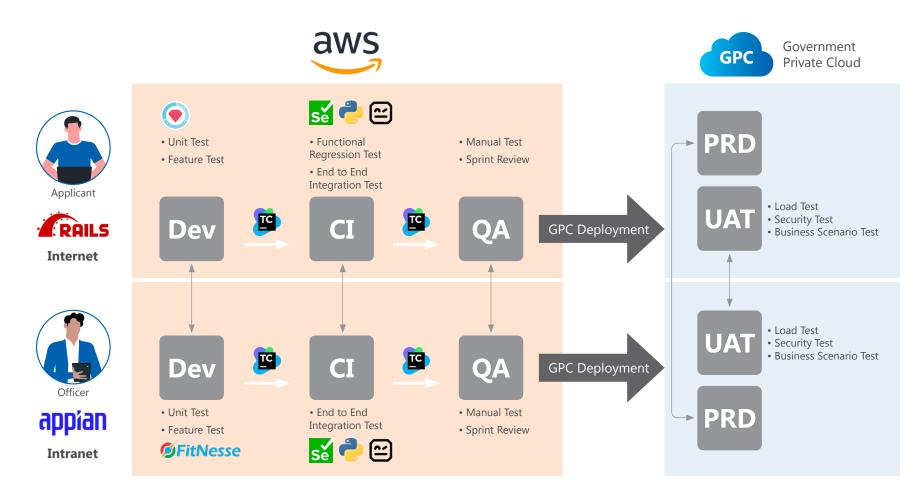# Pipeline

Continuous Integration (CI)

Different features implemented separately and integrated back to overall solution.

Goal: Existing functionality should not break and overall solution functions as expected.
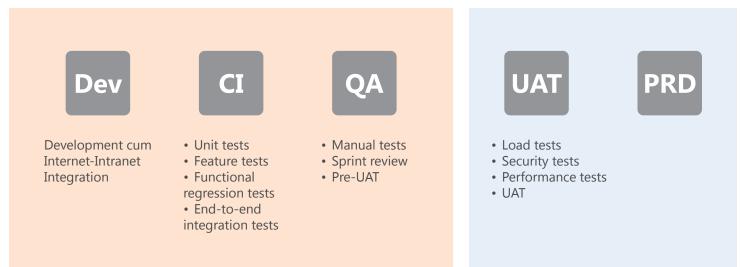
How to achieve?

With automated testing. Each time a feature is developed and pushed to repository, a series of tests are run to achieve the goal. Manual testing is error prone and time consuming. Let machines do it since they do not get tired or make mistakes. They just follow instructions given.

** GPC doesnt allow Continuous Delivery (CD) as it is an isolated environment.

aws – Lower Environment

GPC – Higher Environment

Dev

Development cum Internet-Intranet Integration

CI

- Unit tests
- Feature tests
- Functional regression tests
- End-to-end integration tests

QA

- Manual tests
- Sprint review
- Pre-UAT

UAT

PRD

- Load tests
- Security tests
- Performance tests
- UAT

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