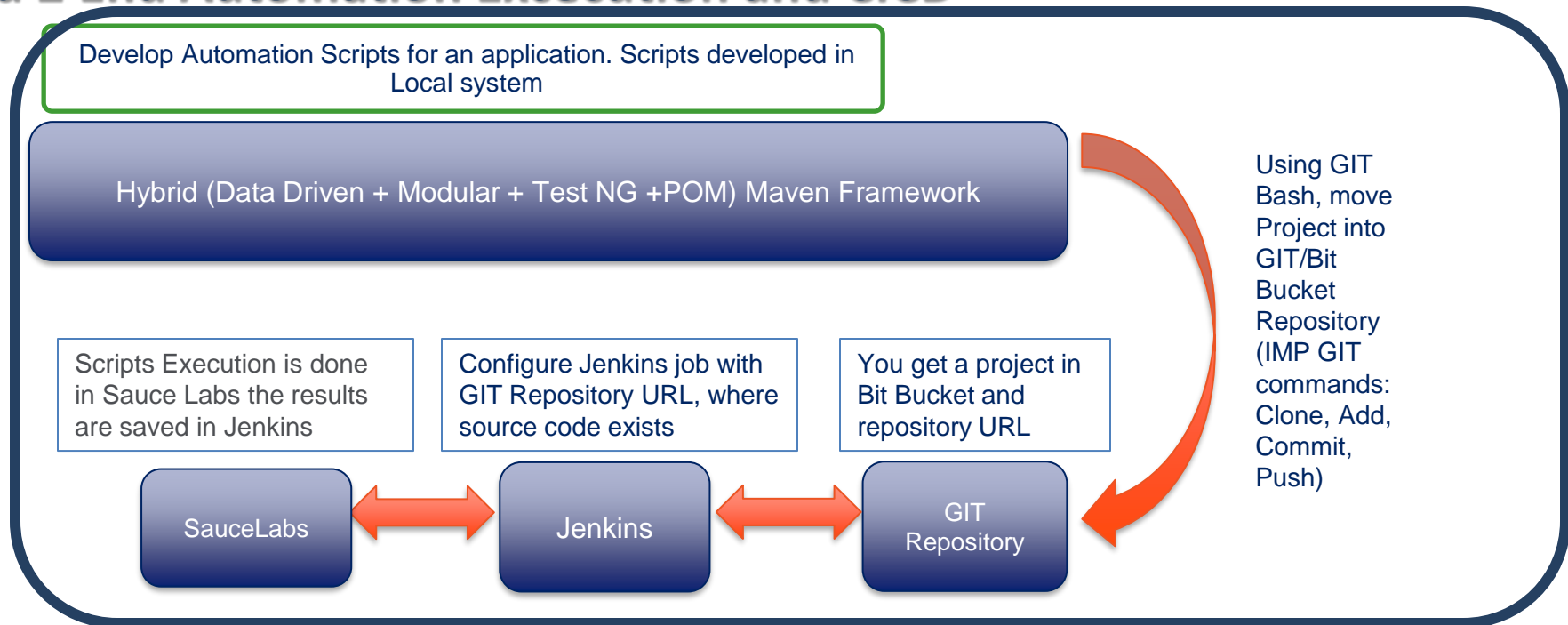


End 2 End Automation Execution and CI/CD



- Using Hybrid framework write automation scripts for the application.
- After Scripting is completed push the automation script to GIT Repository.
- Launch Jenkins and navigate to the project created for automation needs. Configure Jenkins to pull the maven source code/Project from GIT repository and other related configuration features.
- Build/Schedule a job to execute Automation Scripts from Jenkins console .
- Scripts Execution can be done in Sauce Labs or Local Machine and the results are published in Jenkins

CI Implementation Steps

Step 1

- Analyze the user story, Identify test cases to be automated

Step 2

- Develop Automation Scripts in Selenium and Dry run the Selenium Scripts

Step 3

- Push the Selenium Framework in GIT repository.

Step 4

- Setup Job in Jenkins
 - ✓ Configure Job with GIT URL (where Selenium Automation scripts are present), Schedule, Email Notification
 - ✓ Login to Jenkins
 - ✓ Create Project folder
 - ✓ Create Job

Step 5

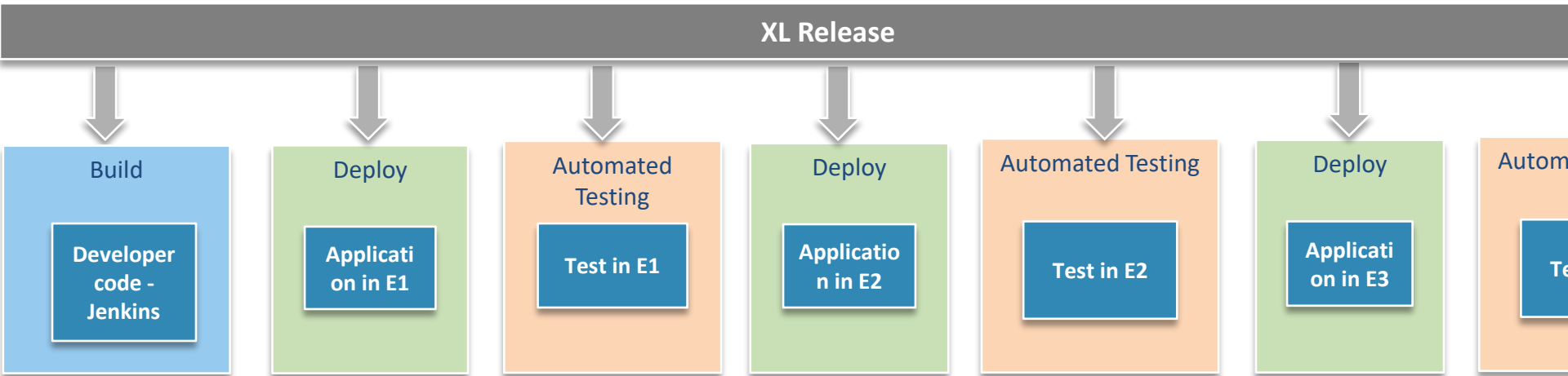
ns Job created

k on

Step 6

- Scripts executed in Sauce labs..
- View Progress and Completion report from Jenkins

CI/CD Flow



Tools used for Selenium based Automation Framework

Rally/JIRA - for Requirement Management, Test case Execution and Asset/Execution results upload

Eclipse IDE, Selenium & Java - is chosen for functional Automation as it is universal accepted tool for functional automation

SauceLabs - is the cloud based solution for Continuous Integration. It provides infrastructure required (Virtual Machine , Browsers , Mobile Devices) to execute the test scripts.

Jenkins - is selected as the build tool for CI

XL Release - is an end-to-end pipeline orchestration tool for Continuous Delivery and DevOps teams. It handles dependencies, release trains, and integration with change and release management.

XL Release Tool - will integrate with Jenkins and Sauce Labs. Jenkins is used as a Build tool and SauceLabs (for Selenium) as Test Management tool

Hybrid (Data Driven+ POM+Test NG + Modular) Automation Maven Frame work

Automation Coverage

[illegible]