

Continuous Deployment – Workshop

HS Düsseldorf, 07.05.2019, PT-Support





Capgemini Standards



- A standardized development platform including:
 - IDE
 - Architecture blueprints
 - Processes
 - ...
- OpenSource (<https://www.devonfw.com>)
- Full sample application available (<https://github.com/devonfw/my-thai-star>)

- A standardized “DevOps” Toolchain
- Not open-source



Capgemini Standards



- A standardized development platform including:
 - IDE
 - Architecture blueprints
 - Processes
 - ...
- OpenSource (<https://www.devonfw.com>)
- Full sample application available (<https://github.com/devonfw/my-thai-star>)

- A standardized “DevOps” Toolchain
- Not open-source

<https://mp.cd.ce.capgemini.com>

Workshop Instance



PRODUCTION
LINE

My Services

Jenkins
version: 2.107.2
● Running

Sonarqube
version: 6.7.1
● Running

Lam
version: 6.2
● Running

Selenium
version: 3.5.3
● Running

Nexus3
version: 3.12.1-01
● Running

Gitlab
version: 10.1.4
● Running

Get in Touch

Post On Yammer

Insere-Raise a Ticket

Documentation



Login and General Rules

Go to <https://mp.cd.ce.capgemini.com>

- Login with username userXX and password userXX, where XX ranges from **02** to **25**
- Keep the following in mind:
 - The repositories of user01 are templates, so don't edit them
 - If you login as userXX, e.g. user05 and there are already repositories for this user, it's highly likely that another person is using this account, so please try a different one
- At the end of everything, please delete your repository and your Jenkins-Jobs!





Version Control Details

Click on the Gitlab icon, this will redirect you to Gitlab.

- There, you click on the + left from the search bar on the top and click on "New project"
- Then you pick "import project" -> "git Repo by URL" with the following settings:
 - URL <https://user01:user01@mp.cd.ce.capgemini.com/gitlab/user01/my-thai-star-01-frontend.git>
 - As "Project name" you choose "my-thai-star-**XX**-frontend"
 - As "Visibility Level" you pick "Public"
- Click on "Create project"

Repeat the process with the following URL

<https://user01:user01@mp.cd.ce.capgemini.com/gitlab/user01/my-thai-star-01-backend.git> and the Project name "my-thai-star-**XX**-backend"

(**XX** = Your username-number!)



Build Details

Go back to <https://mp.cd.ce.capgemini.com/> and click on Jenkins

- There you find a "JobCreation"-Job. Click on The Clock with the green Arrow to the right
- After the job is done, you can click on the "userXX" tab or go to
- There you should have two jobs now. Start the Jobs
- While they are running, you can add a GitLab-Webhook.
 - For this Click on your "my-thai-star-01-backend-Java_master" Job, and then on the left you click on "Configure" - Under "Build Triggers", there is a checked checkbox "Build when a change is pushed to GitLab."
 - Under advanced, you will find the "Secret Token" field. Click on generate and copy the Token.
 - Go to your GitLab backend repository and click on "Setting"->"Integrations"
 - In the URL-field you put:
 - http://jenkins-core:8080/jenkins/project/my-thai-star-XX-backend-Java_master
 - http://jenkins-core:8080/jenkins/project/my-thai-star-XX-frontend-Angular_master
 - In the Secret Token field, you put the copied Secret Token. Click in "Add webhook" and you are done.



Exercise

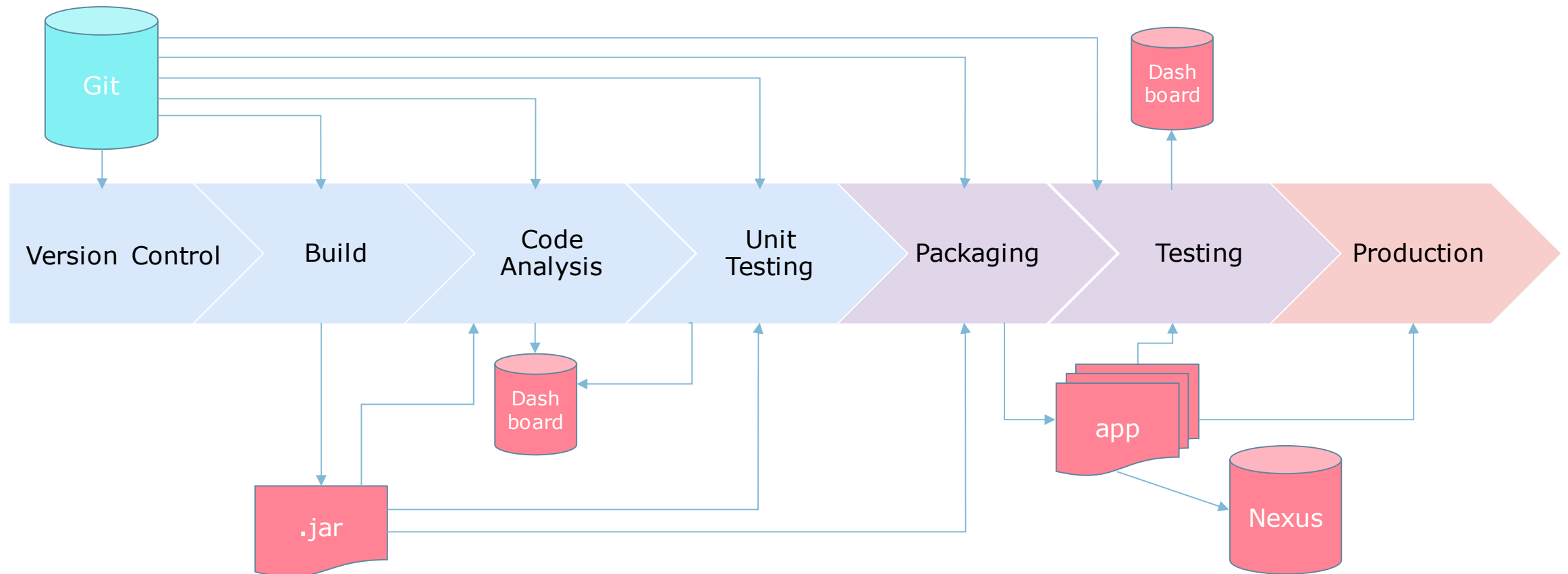
Clone the repositories to your local machine (you should be able to do this on your own)

Go back to your Jenkins-Jobs. You will notice, that both jobs failed. Search the logs, why they failed and try to fix the issues (in the Code). You can see your SonarQube analysis reports by going back to <https://mp.cd.ce.capgemini.com/> and click on SonarQube. There you type "userXX" in the searchBar.



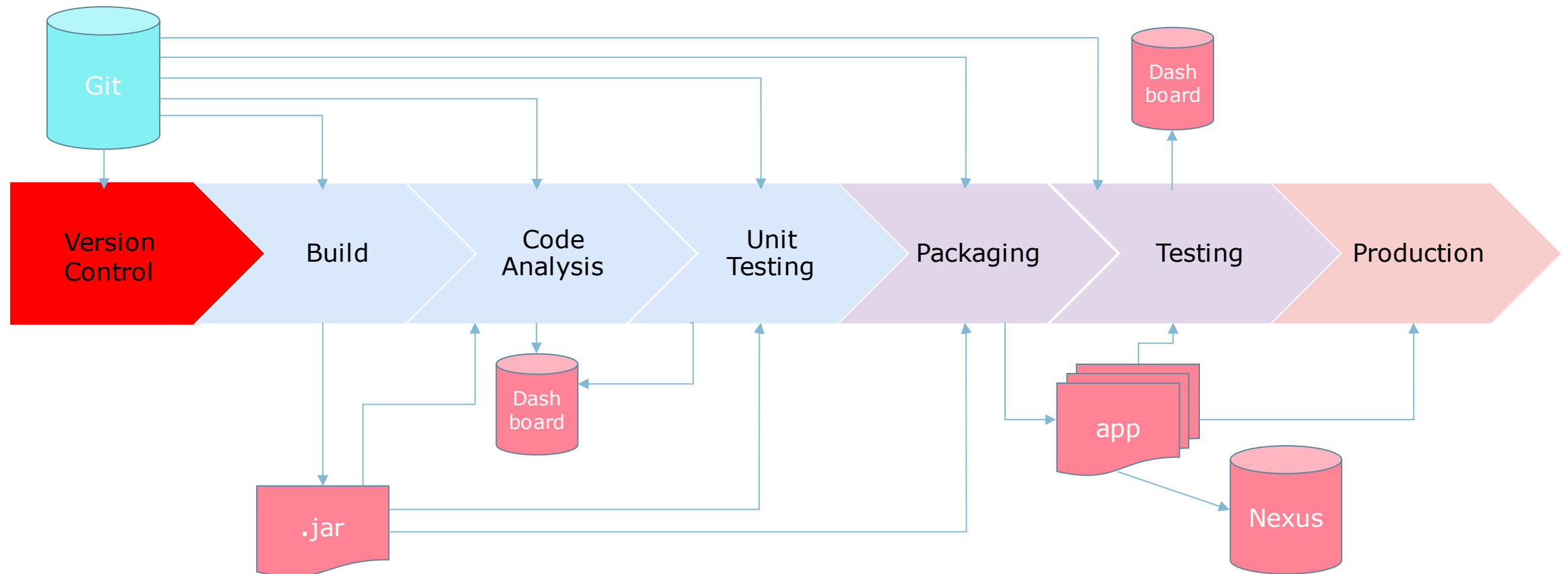
Continuous Deployment Pipeline

Continuous Deployment contains Continuous Integration, Continuous Delivery and adds Deployment to Production.



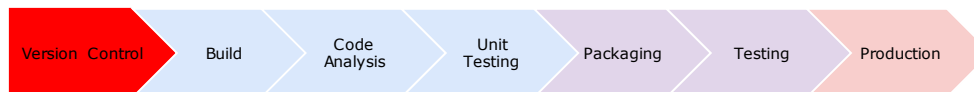
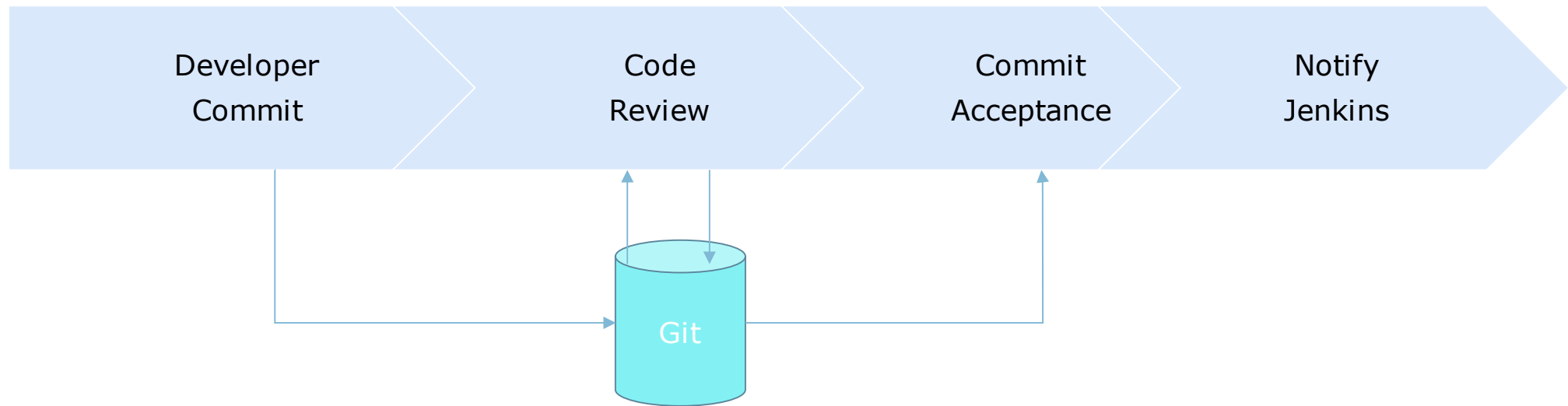


Version Control – Where the Developer begins

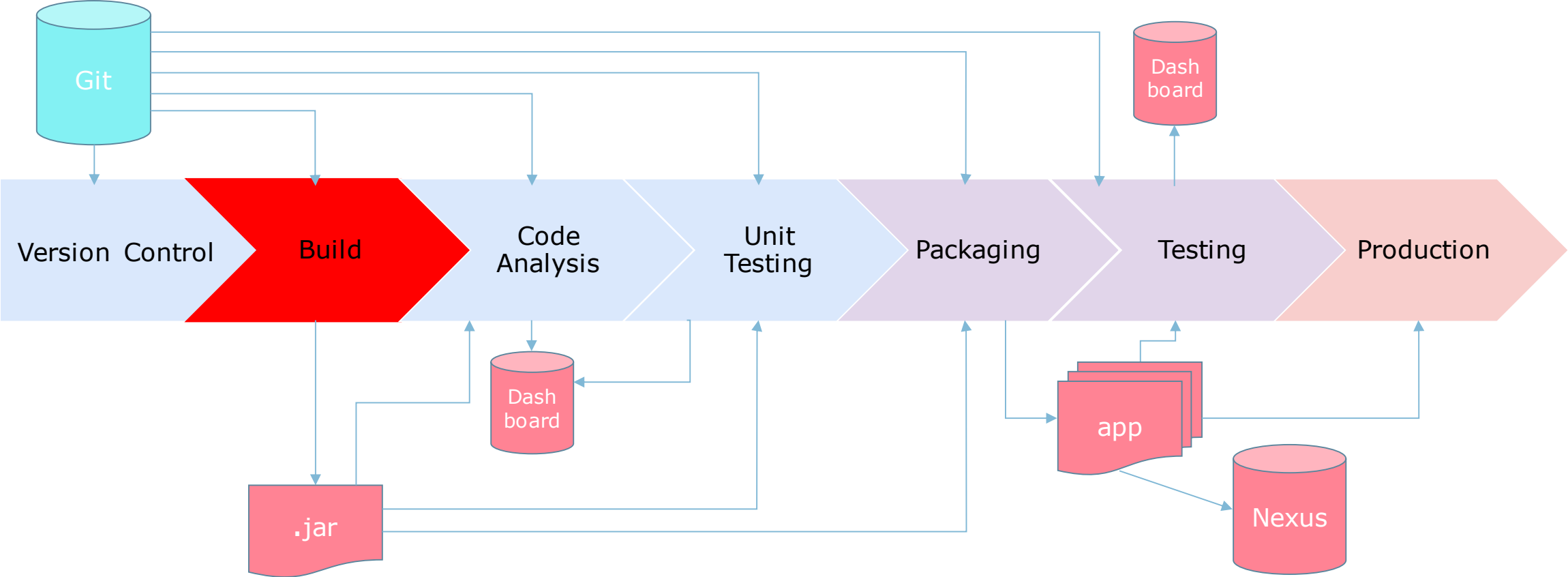




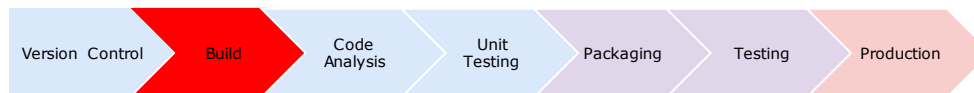
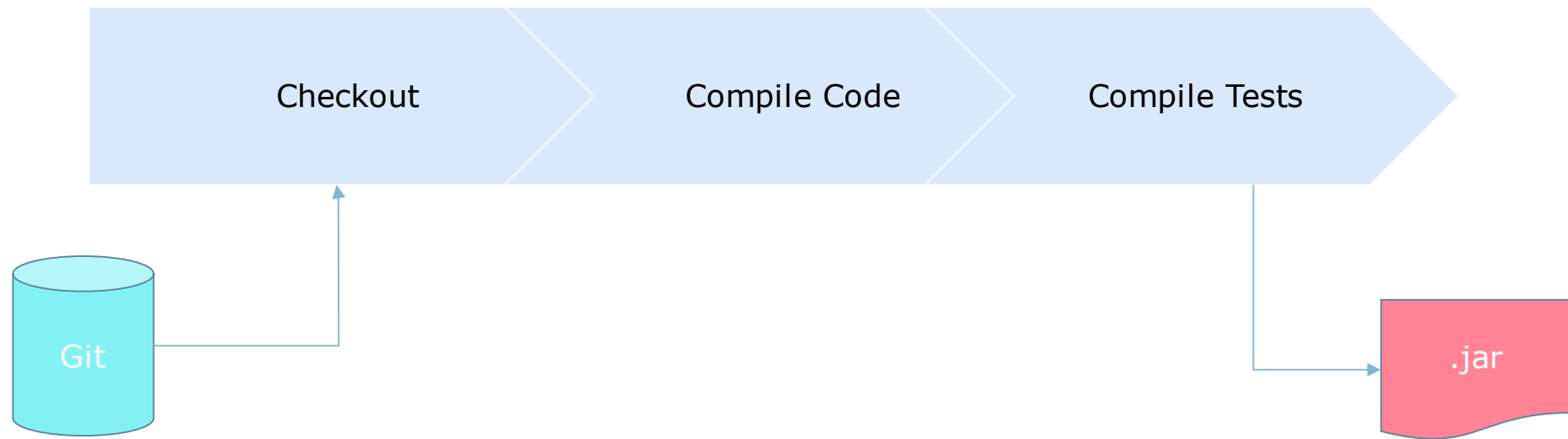
Interacting with the Version Control System



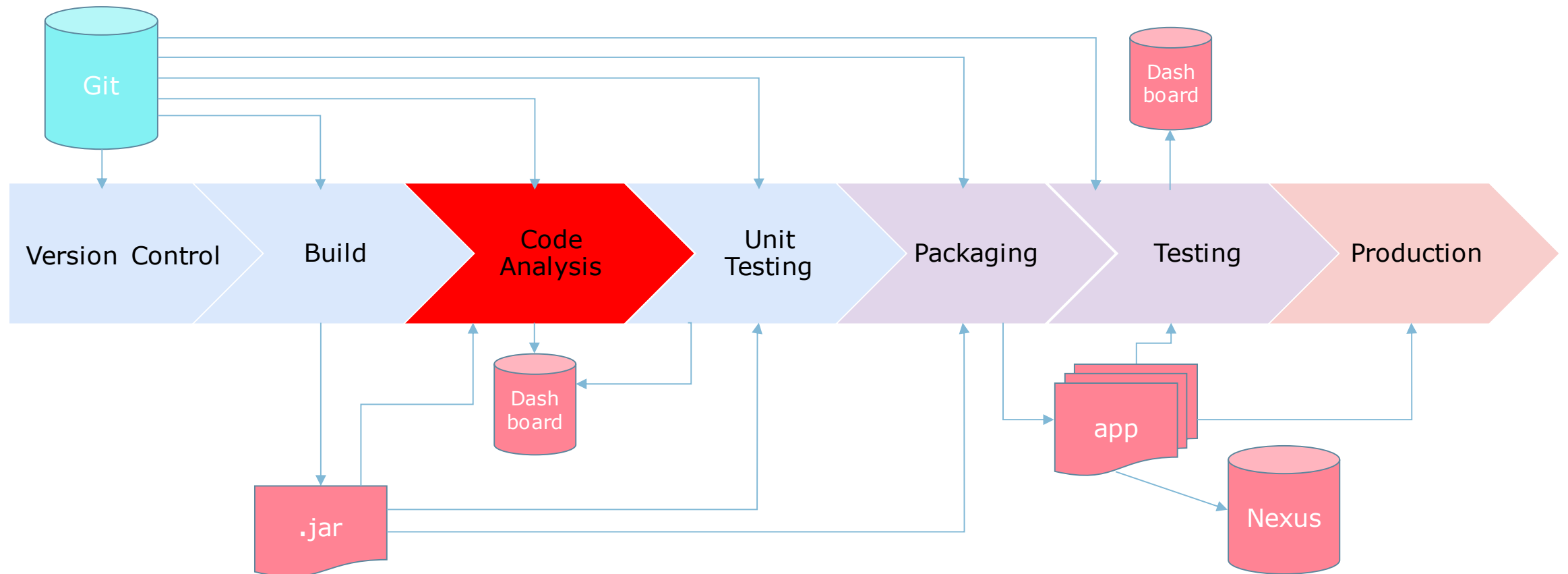
Build – The Automation starts ist work



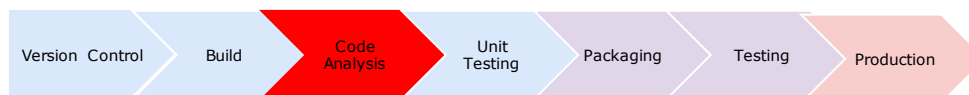
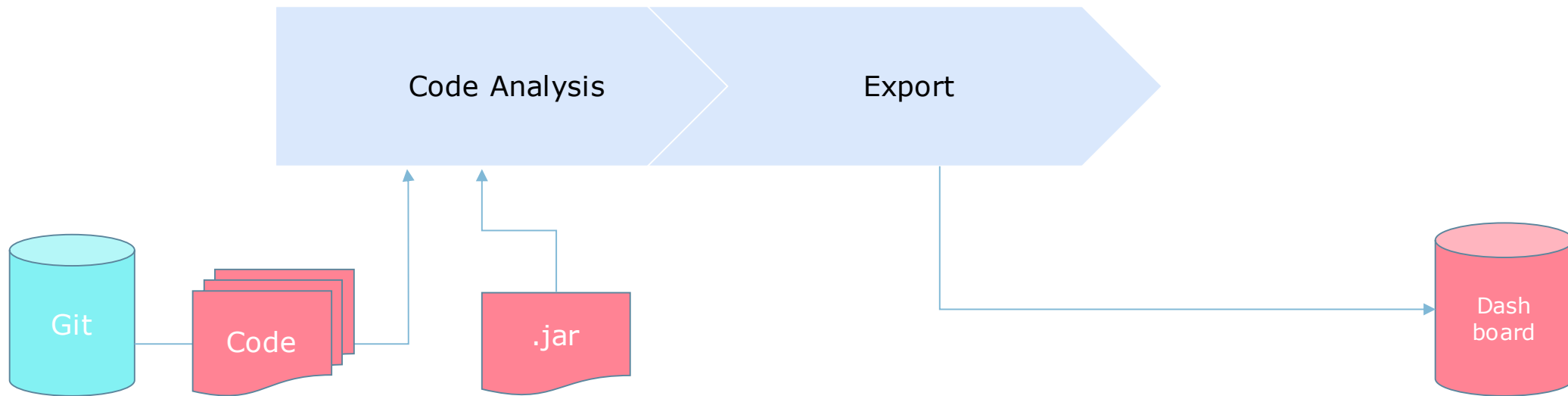
Compiling the Code



Code Analysis – First Step of Quality Assurance

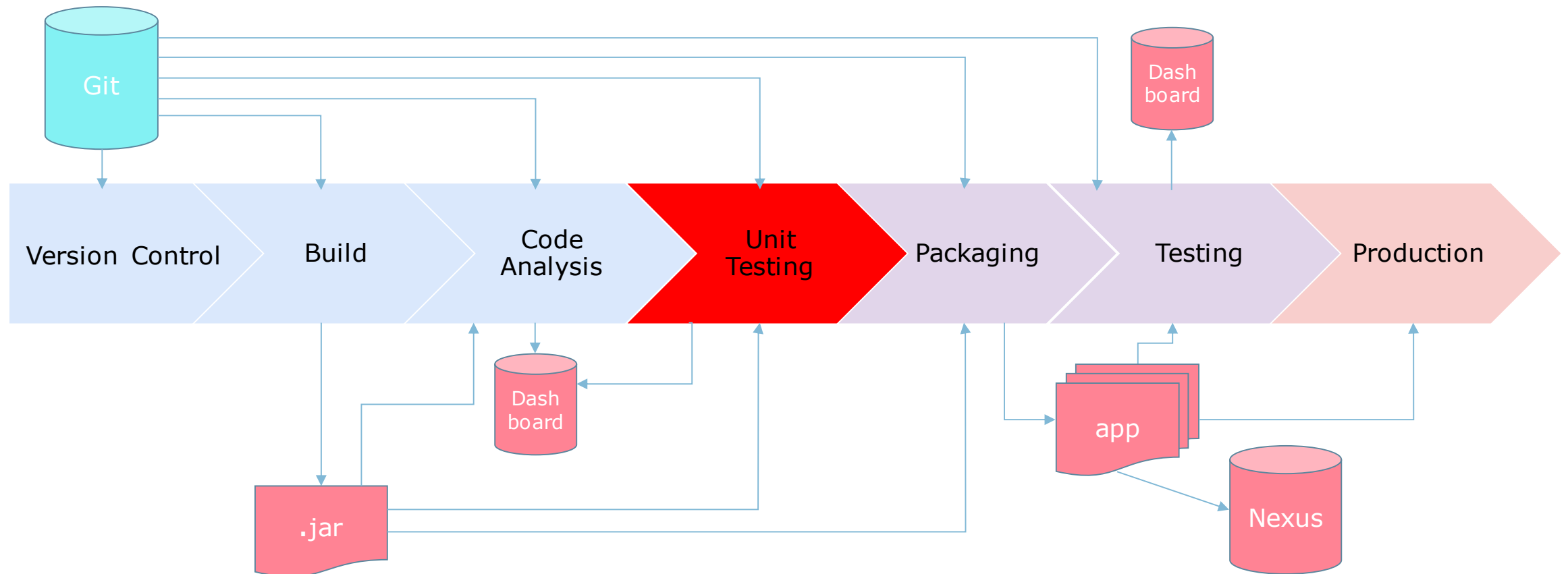


Code Analysis – The Referee Decides if You Followed the Rules

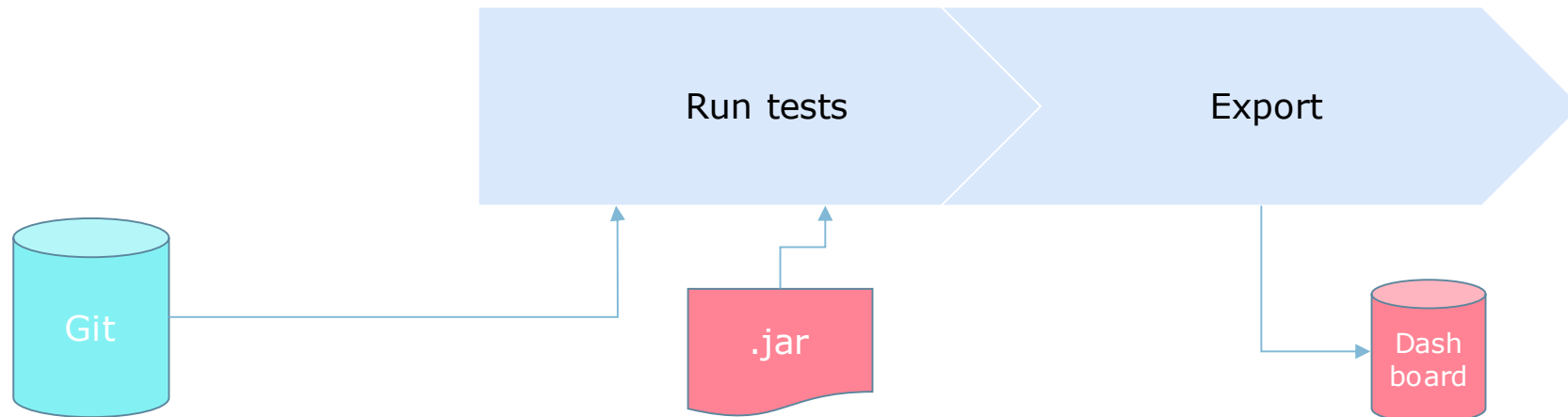




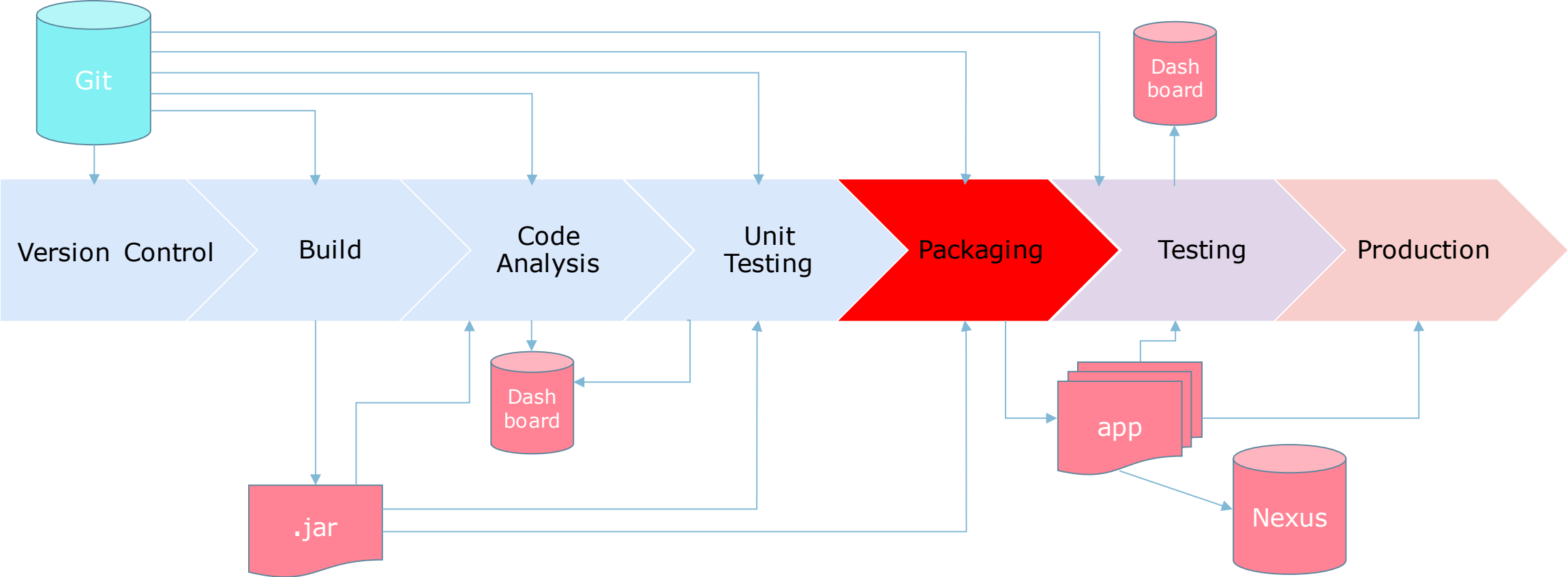
Unit Testing – The Journey of QA goes on



Unit Testing – Do Artefacts Do What They are Intended to Do?

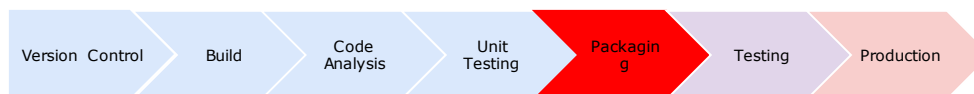
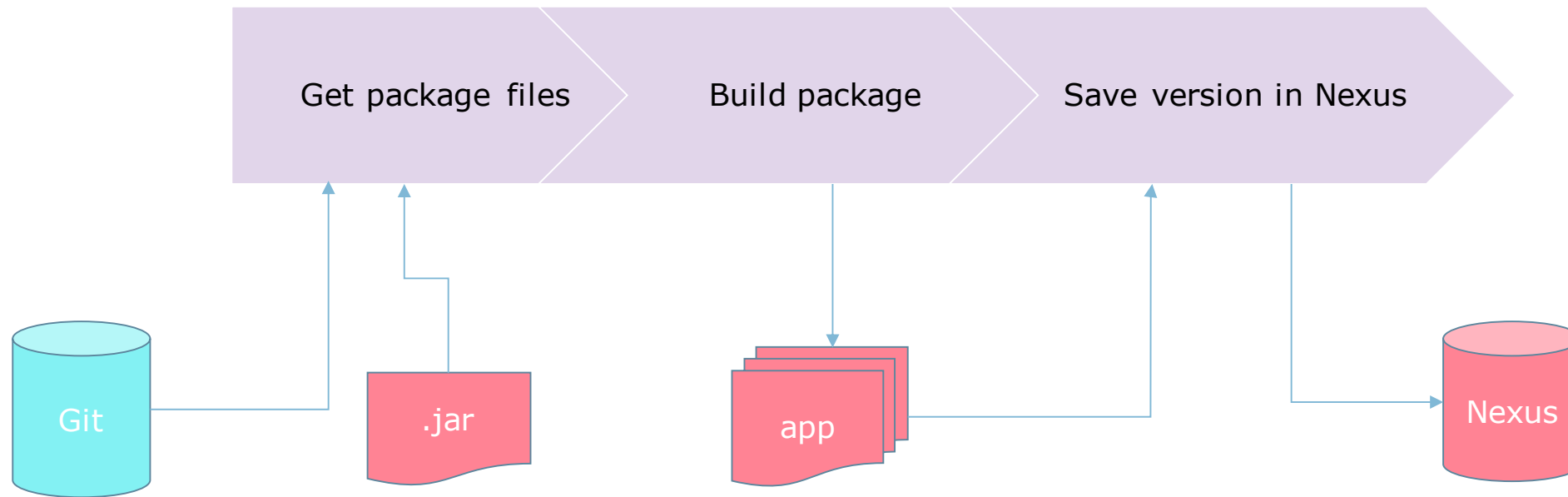


Packaging – Preparation of Deployments



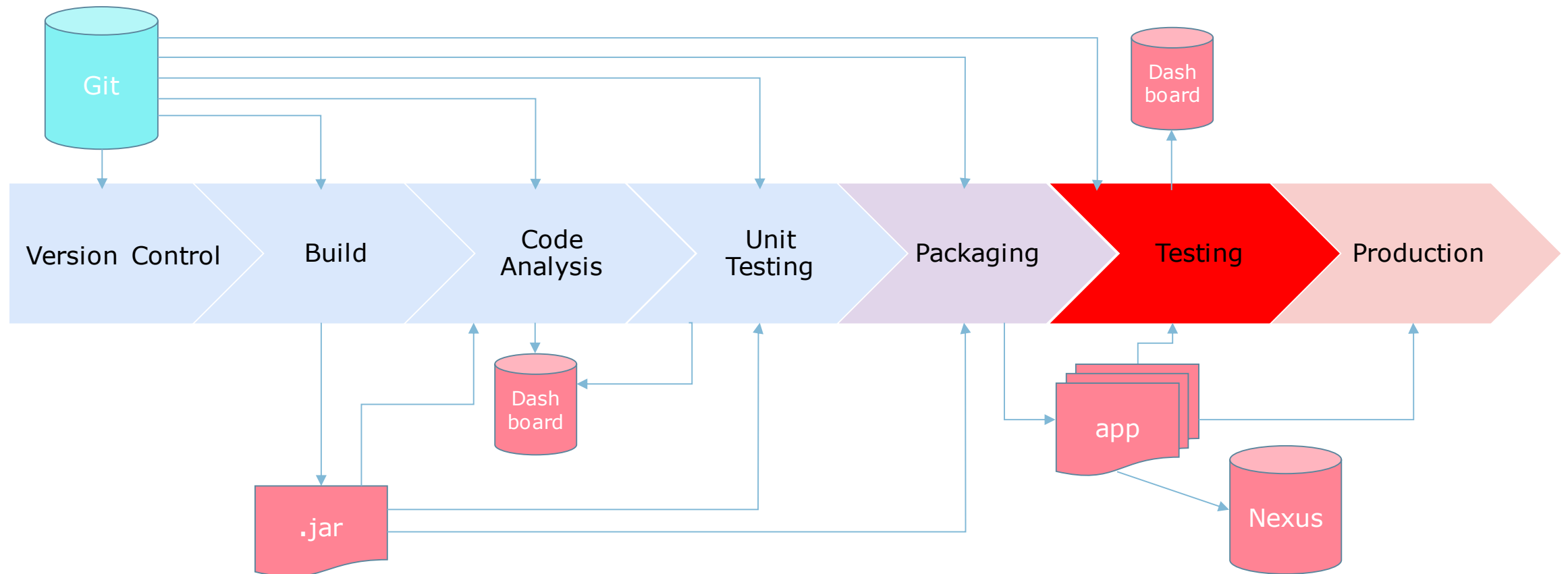


Packaging – Get All Together What is Needed



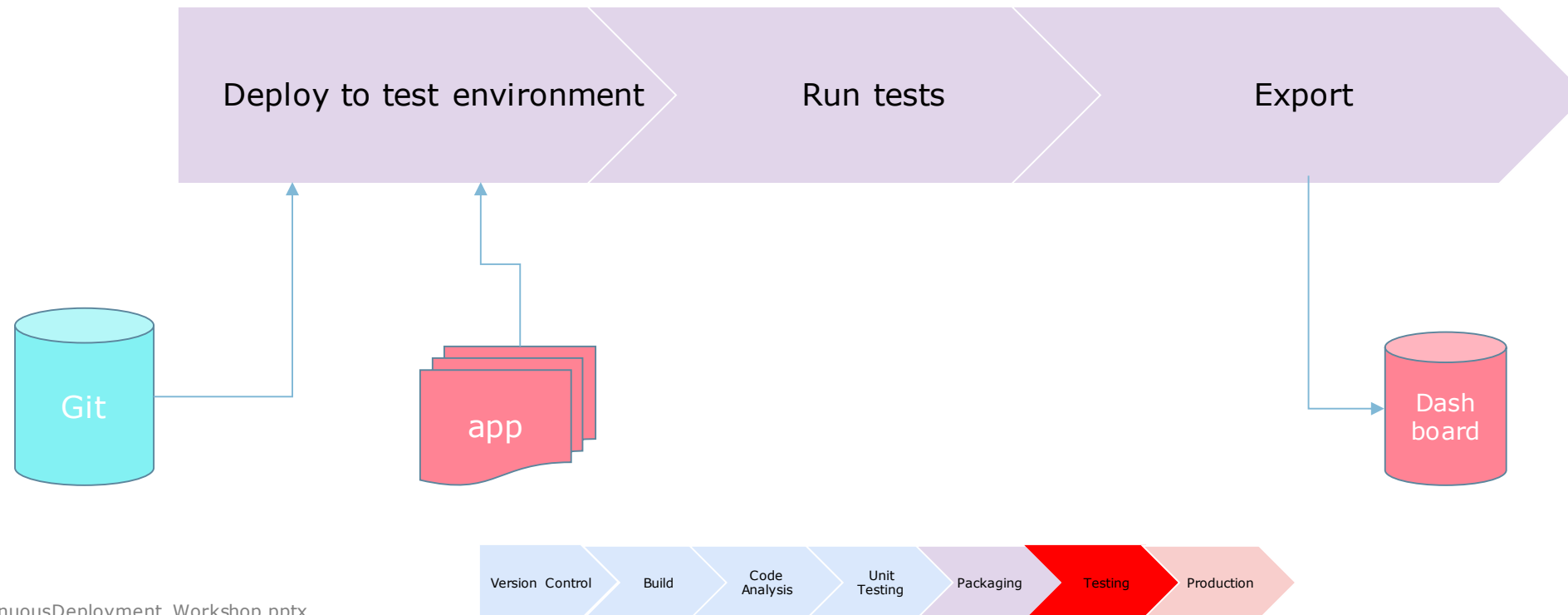


Testing – Does the Software behave as expected

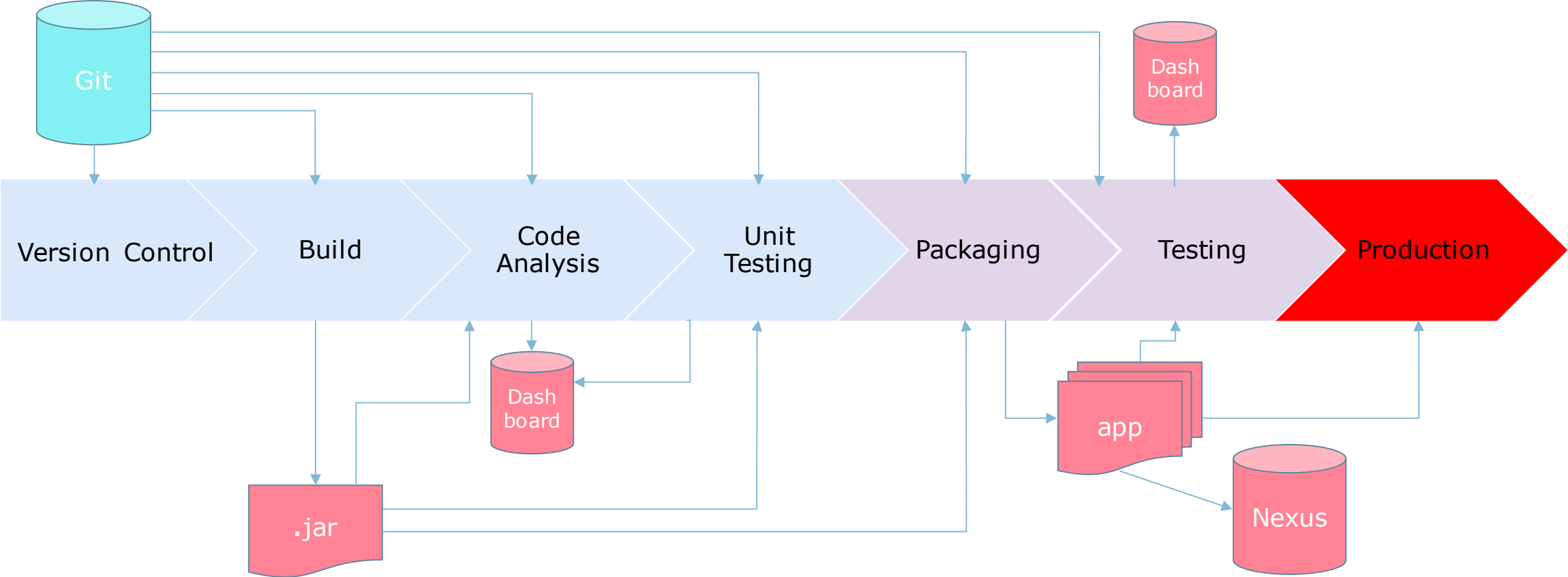




Testing – Let the App Run on Device and Check Functionality

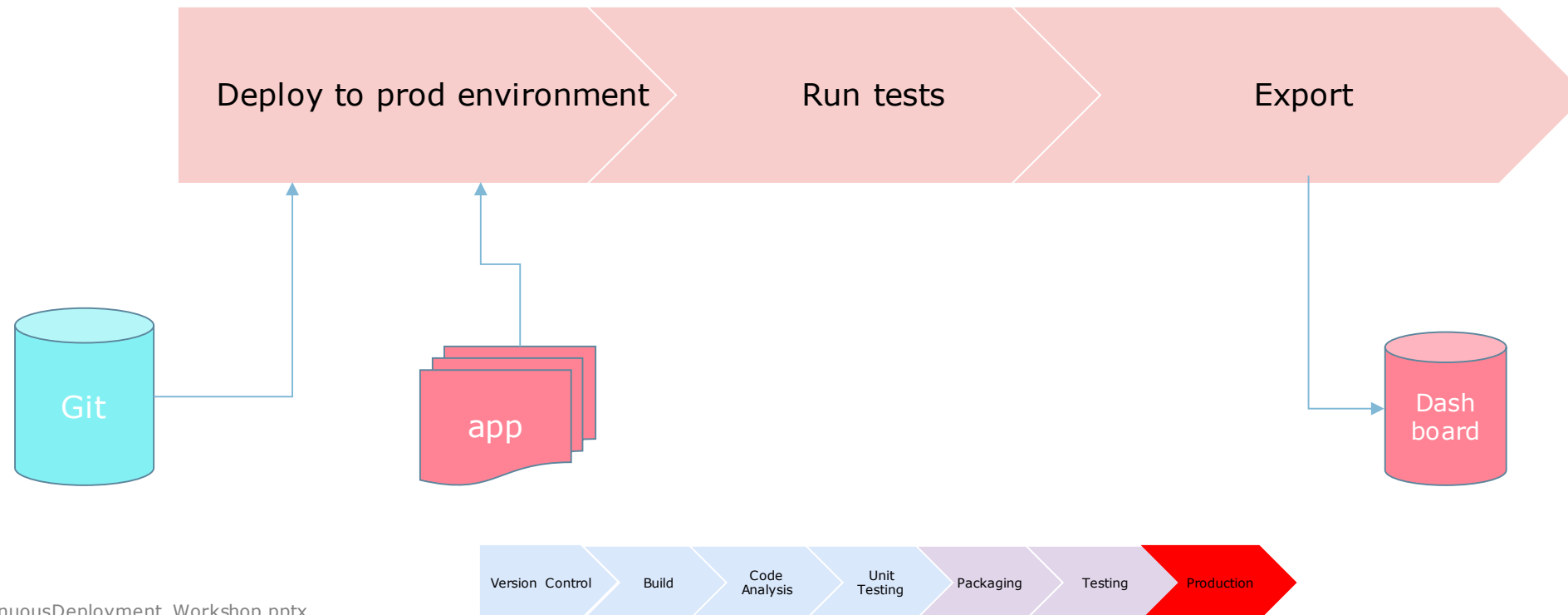


Production – Let's GoLive





Production – Congratulations, You Went Live





People matter, results count.

This message contains information that may be privileged or confidential and is the property of the Capgemini Group.

Copyright © 2018 Capgemini. All rights reserved.

About Capgemini

A global leader in consulting, technology services and digital transformation, Capgemini is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. It is a multicultural company of 200,000 team members in over 40 countries. The Group reported 2016 global revenues of EUR 12.5 billion.

Learn more about us at

www.capgemini.com