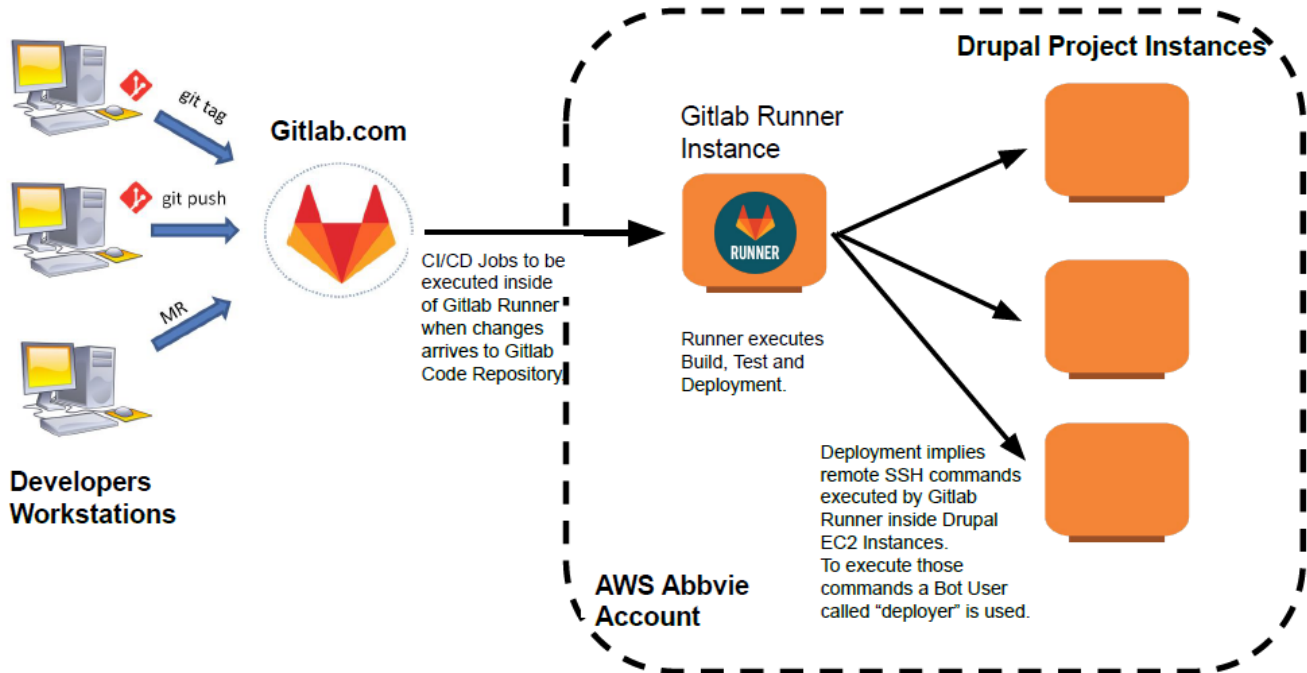


GitLab - Architecture Diagram Overview

This page has been created to understand the Pipeline structure created for GitLab deployments

The Architecture Diagram:



Explanation:

1. When developers PUSH changes to the private GitLab Repository, the CI pipeline creates certain Jobs to be executed.
2. Those Jobs are fetched by GitLab Runner instance and are executed inside of it.
3. GitLab Runner <--> Gitlab.com communication is executed by HTTPS and GitLab Runner Instance is able to fetch Jobs from the Gitlab.com private project.
Because in the installation procedure we use a Private Token which directly associates this runner with this private project. After the runner installation, this one appears as an available runner inside of the GitLab project.
4. If Build and Test jobs run properly (Without errors), the deployment job is executed.
5. The deployment Job consists of a set of scripted remote SSH commands that are executed every time in the same order to avoid (if possible) manual actions.

Usual steps are:

- Pull latest code changes.
- Install new modules if needed.
- Apply database updates.
- Clear caches.

6. GitLab has a secret variable to store the private SSH key of the bot user that is used to execute the deployment.

The public key matching the private one is added in the deployer user `authorized_keys` file inside of Drupal EC2 Instances.