

Module 7

Terraform Pipelining



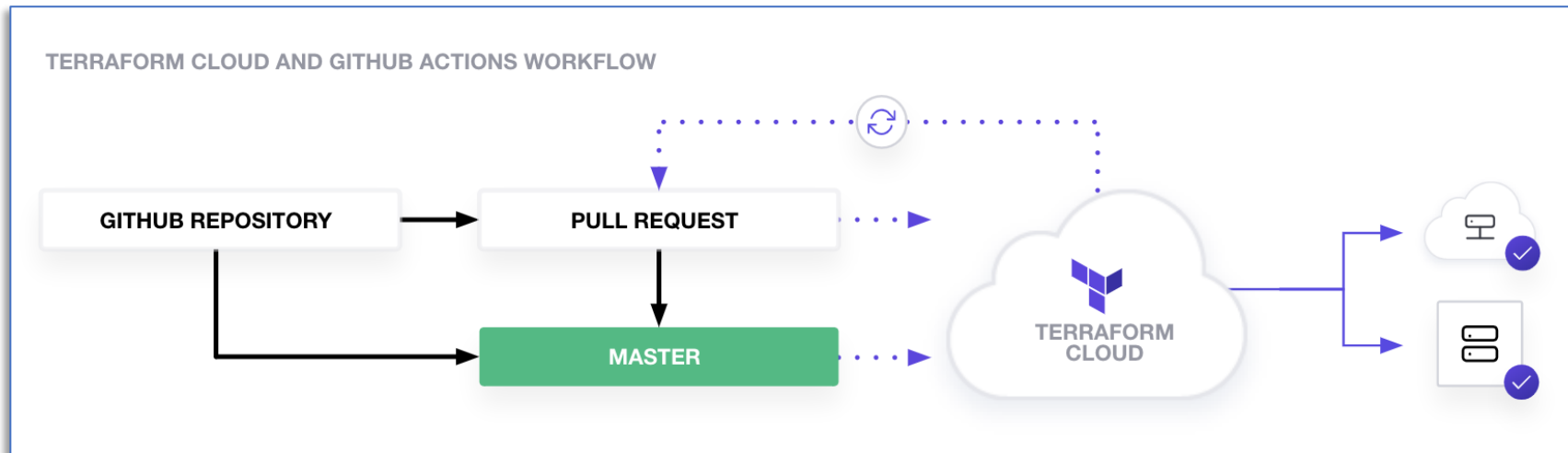
Agenda

- Introduction
- Workflow
- Lab 7



Introduction

GitHub Actions add continuous integration to GitHub repositories to automate your software builds, tests, and deployments. Automating Terraform with CI/CD enforces configuration best practices, promotes collaboration and automates the Terraform workflow



Source: <https://developer.hashicorp.com/terraform/tutorials/automation/github-actions>

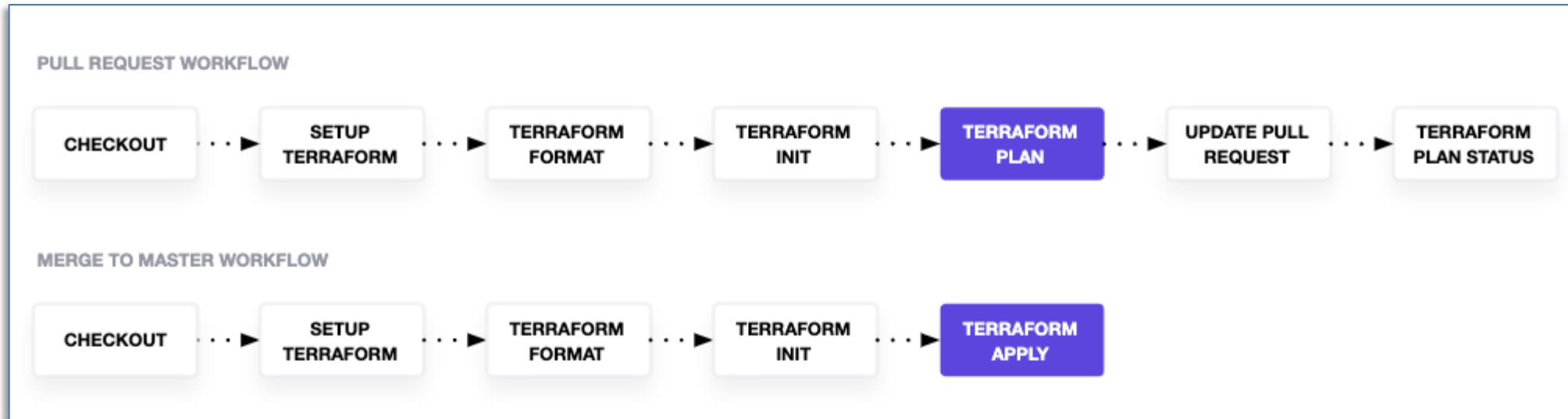


Workflow

- Create TF files
- Create GitHub Actions workflow YAML file
 - Triggers on push or pull_request targeting main branch and terraform path changes
 - Environment variable for backend and possibly credential – secrets
- Job definition
 - Pull Request received – generate plan of incoming changes, add this as comment to the Pull Request
 - If Pull request approved – merge changes to 'main', triggering `terraform apply`



Pull and Merge Workflows



Source: <https://developer.hashicorp.com/terraform/tutorials/automation/github-actions>



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Lab 7

Terraform Pipelining

In this lab you will create a new Terraform Cloud workspace and configure integration with Github Actions.

