Adding Terraform to a CICD Pipeline

Ned Bellavance

MICROSOFT MVP, CLOUD AND DATACENTER MANAGEMENT

@ned1313   www.nedinthecloud.com

Overview

Level set with terminology
- Don't be scared!

Automation at Globomantics

Jenkins, GitHub, and supporting services

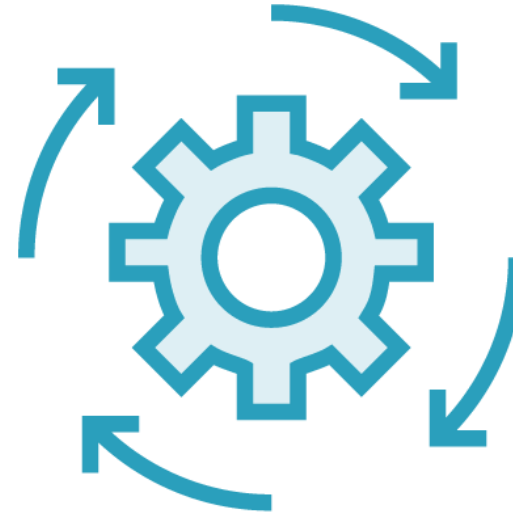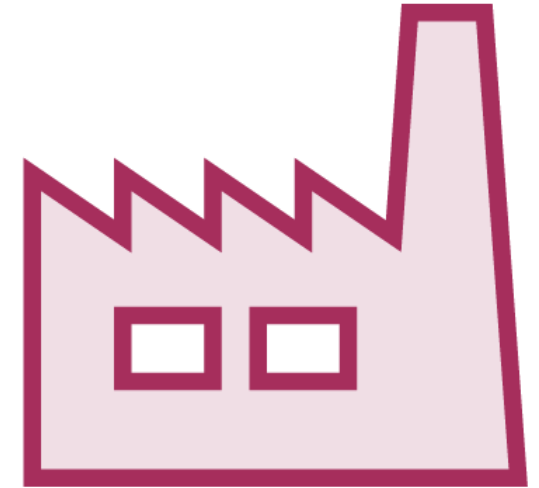**Considerations for automation and CICD**

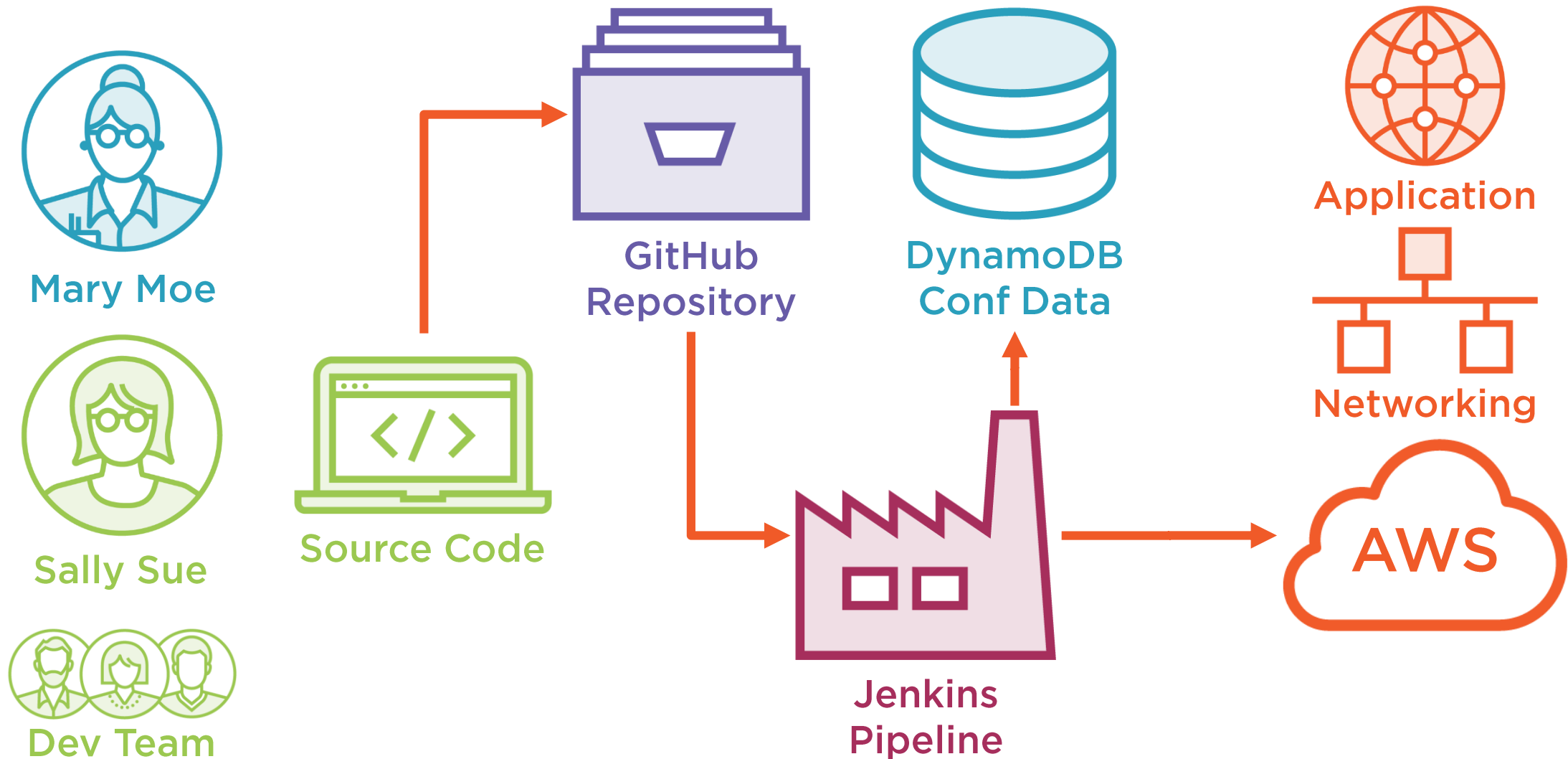# Terminology Time

Source Control Management (SCM)

Repositories

Continuous Integration/ Deployment (CICD)

Pipeline

Automation at Globomantics

Supporting Services
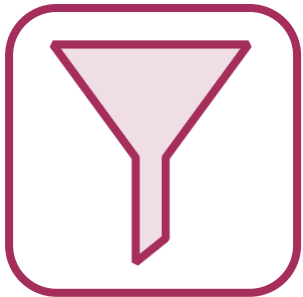
Lamba/API	DynamoDB	AWS IAM	AWS S3
API Gateway	ddt-tfstatelock	Networking	ddt-networking
Lambda	ddt-datasource	Application	ddt-application

Demo

Examine the Terraform setup file

Deploy the configuration

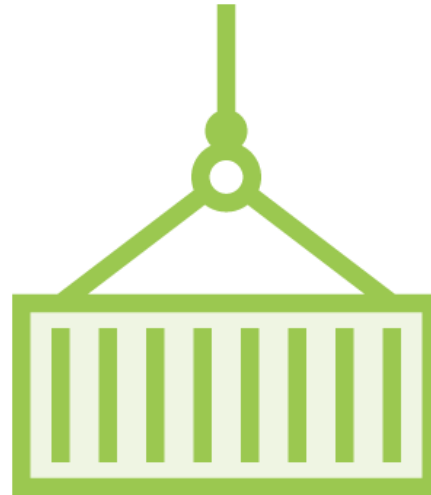**Review the results**

Play along!

- AWS account

- Terraform software (terraform.io)

- Demo files and GitHub account

- Jenkins software or Docker installed

Jenkins Setup

Install Jenkins as a traditional app

Deploy Jenkins in a container

Deploy Jenkins in the cloud

Running Automation in Terraform

Plugin Source	**Workspace Usage**	**State Control**
Output Control	**Deploy Pattern**	**Error Handling**

Summary

Automation is challenging!

Automation is rewarding!
- Truly understand your environment

Focus on concepts not tools

Coming up:
- Implementing Configuration Management
- Using Ansible to deploy configuration