

DevOps Tools

CodeDeploy



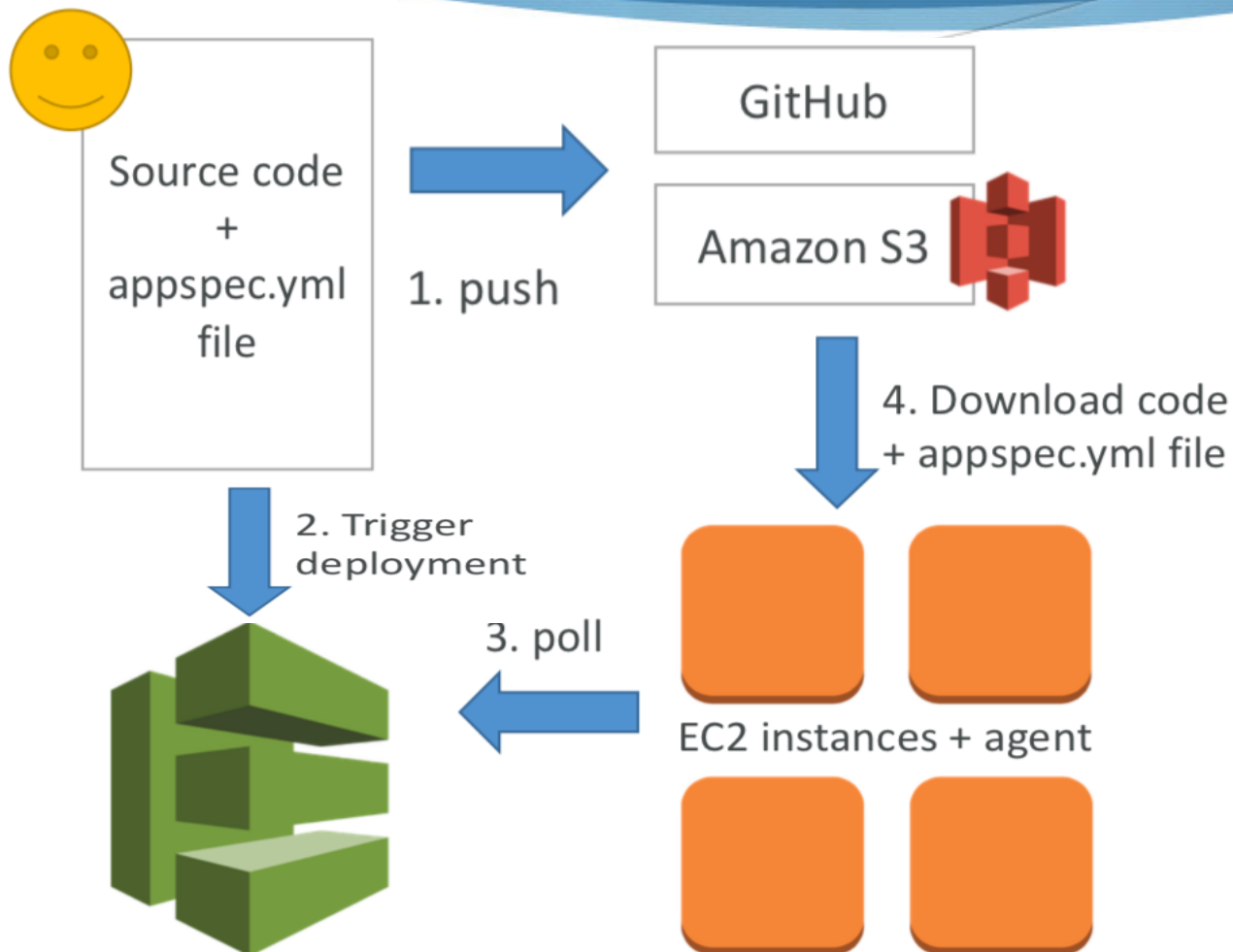
AWS CodeDeploy

- ◆ We want to deploy our application automatically to many EC2 instances
- ◆ There are several ways to handle deployments using open source tools (Ansible, Terraform, Chef, Puppet, etc...)
- ◆ We can use the managed Service AWS CodeDeploy

AWS CodeDeploy-Steps

- ◆ Each EC2 Machine (or On Premise machine) must be running the CodeDeploy Agent
- ◆ The agent is continuously polling AWS CodeDeploy for work to do
- ◆ CodeDeploy sends appspec.yml file.
- ◆ Application is pulled from GitHub or S3 or CodeCommit
- ◆ EC2 will run the deployment instructions
- ◆ CodeDeploy Agent will report of success / failure of deployment on the instance

AWS CodeDeploy Process



AWS CodeDeploy

- ◆ EC2 instances are grouped by deployment group (dev / test / prod)
- ◆ Lots of flexibility to define any kind of deployments
- ◆ CodeDeploy can be chained into CodePipeline and use artifacts from there
- ◆ CodeDeploy can re-use existing setup tools, works with any application, auto scaling integration
- ◆ Note: Blue / Green only works with EC2 instances (not on premise)
- ◆ Support for AWS Lambda deployments, EC2
- ◆ CodeDeploy does not provision resources

Exercise 05.1- Deploying a sample Web Application

- ◆ Create a new Application
- ◆ Create Development Deployment Group
- ◆ Create Production Deployment Group
- ◆ Discuss Blue/Green Deployment Configuration
- ◆ Discuss `appspec.yaml`
- ◆ Monitoring Deployments with CloudWatch

Exercise 05.2- Assignment- Deploying to a group of instances