Using AWS Code Tools

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Overview

IaC fundamentals

Source control and automation

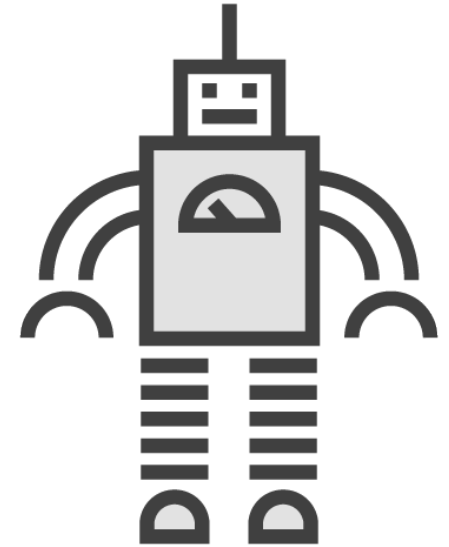**Adopting AWS Code tools**

Infrastructure as Code Fundamentals

Software defined

Reusable and repeatable

Source control

Automation

Source Control Management
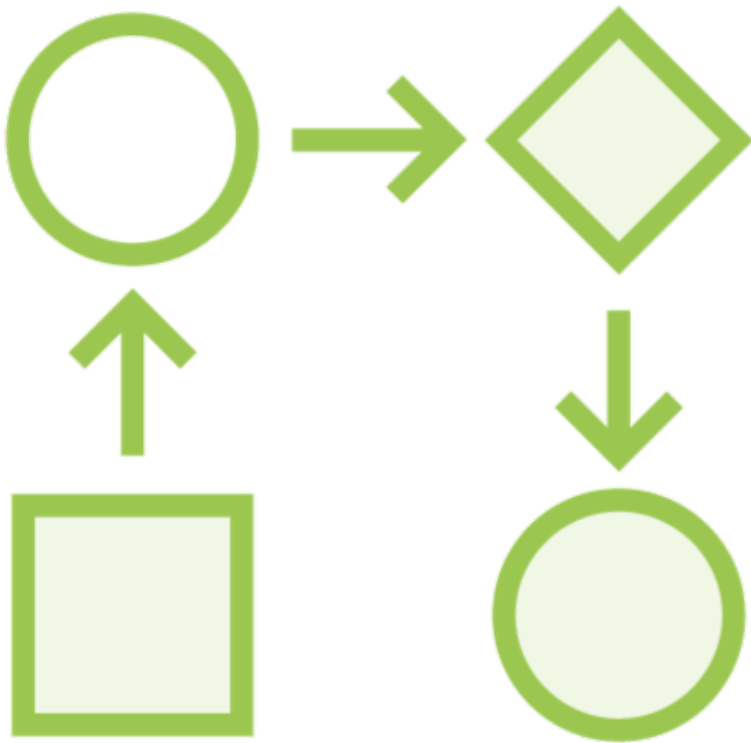
Multiple formats
– Git, TFVC, Subversion

Multiple platforms
– GitHub, BitBucket, GitLab, CodeCommit

Enable collaboration

Version controlled

CI/CD Pipelines

Multiple platforms
- – Jenkins, CodePipeline, Bamboo

Continuous Integration for code check-in

Continuous Delivery of builds

Automated testing and validation

Multiple environments
- – Development, UAT, QA, Production

Terraform Workspaces

- **Common configuration**
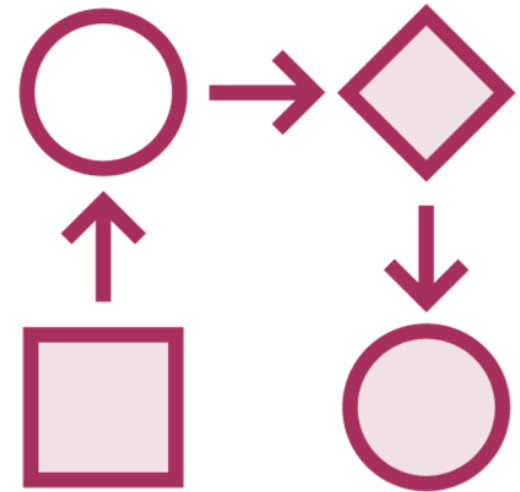- **Separate state data**
- **Multiple environments**
- **terraform.workspace**

AWS Code Tools

CodeCommit

CodeBuild

CodePipeline

Initial Deployment

buildspec.yaml

Source

Plan

Apply

State data

Source

Development

Logs & Artifacts

Expanding the Pipeline

UAT

Development

Production
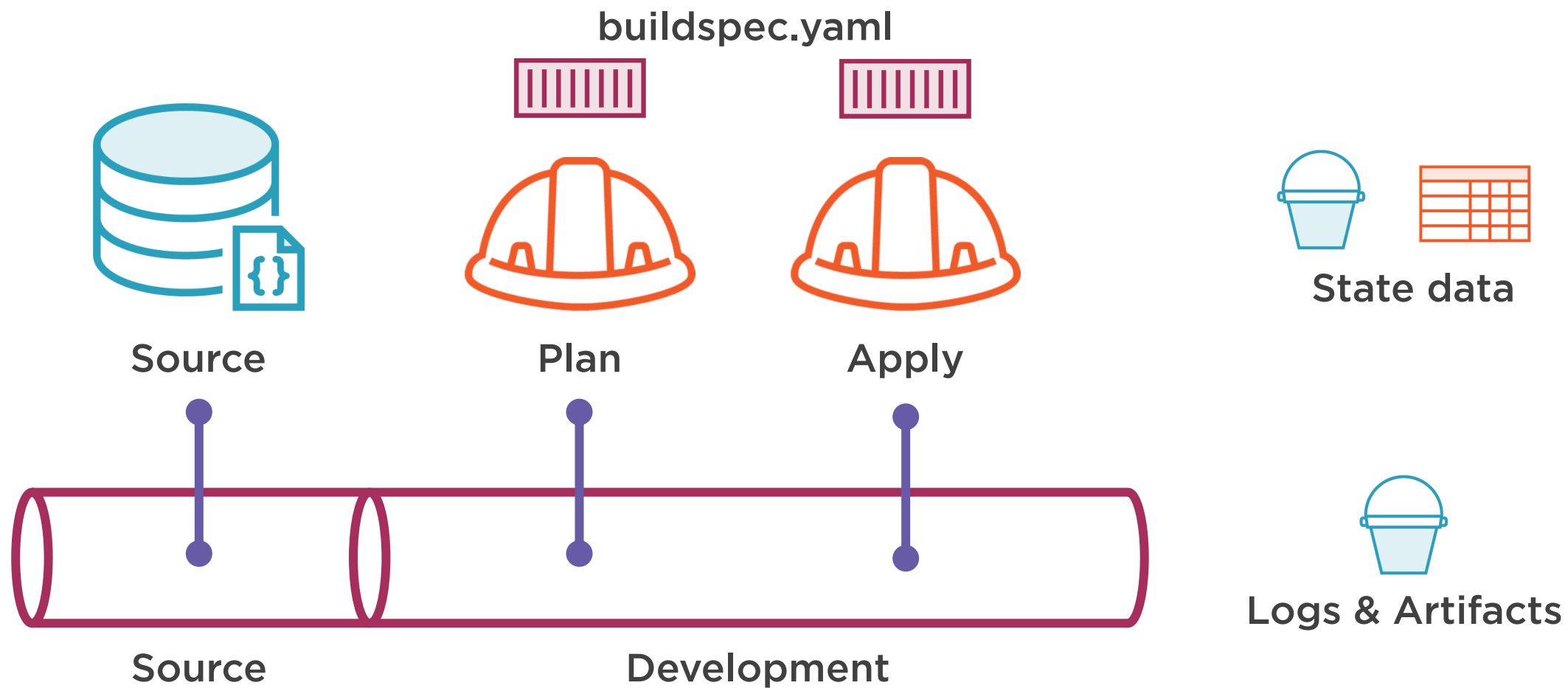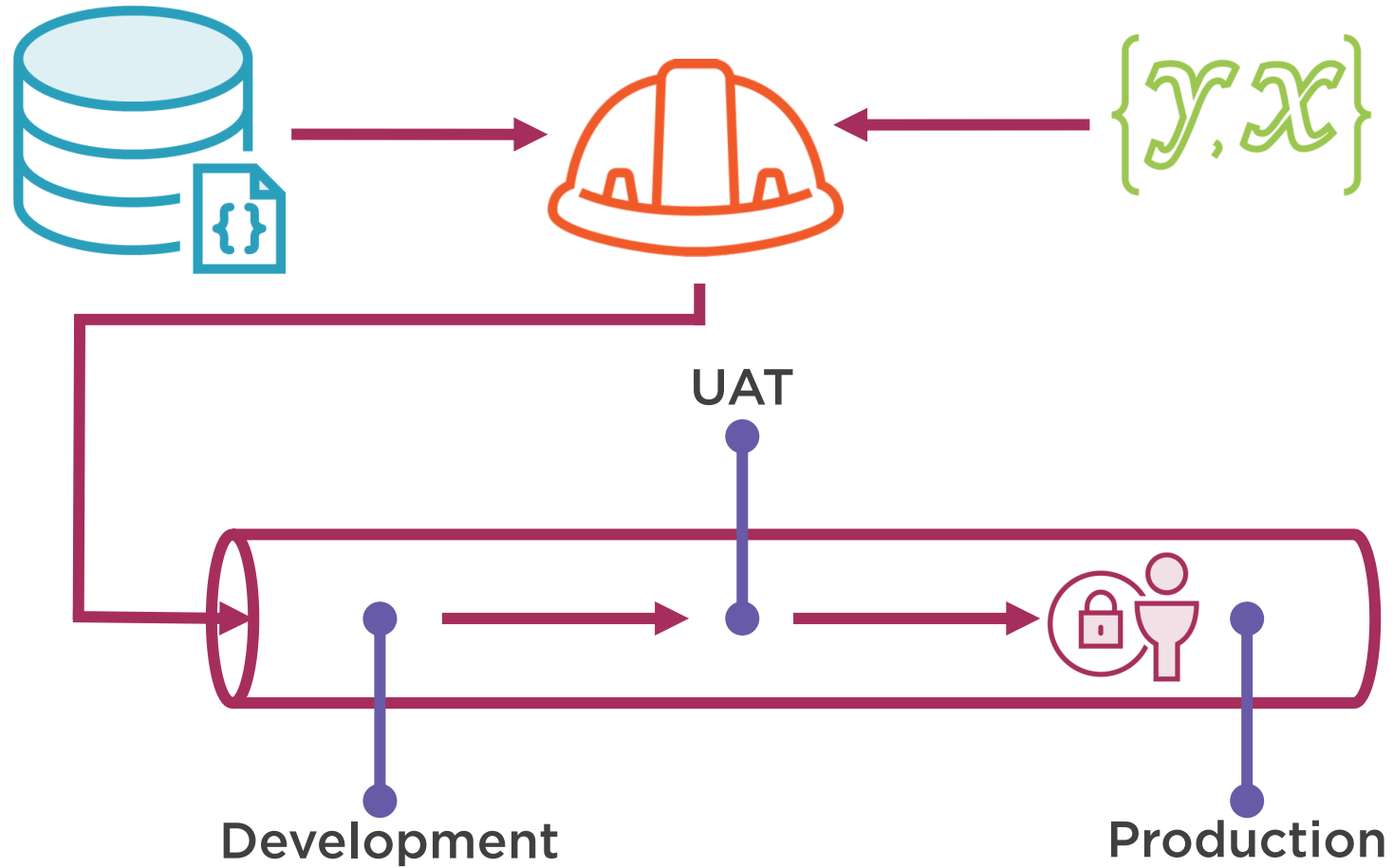
Summary

Use source control

Automate your deployments

Add testing for infrastructure

Coming up:
 – Build on your infrastructure
 – Using CloudFormation