

Running a Playbook Using GitHub Actions



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Overview



Deploying a playbook to the test environment

Deploying from the main branch only

Deploying also to production

Require an approval before deploying



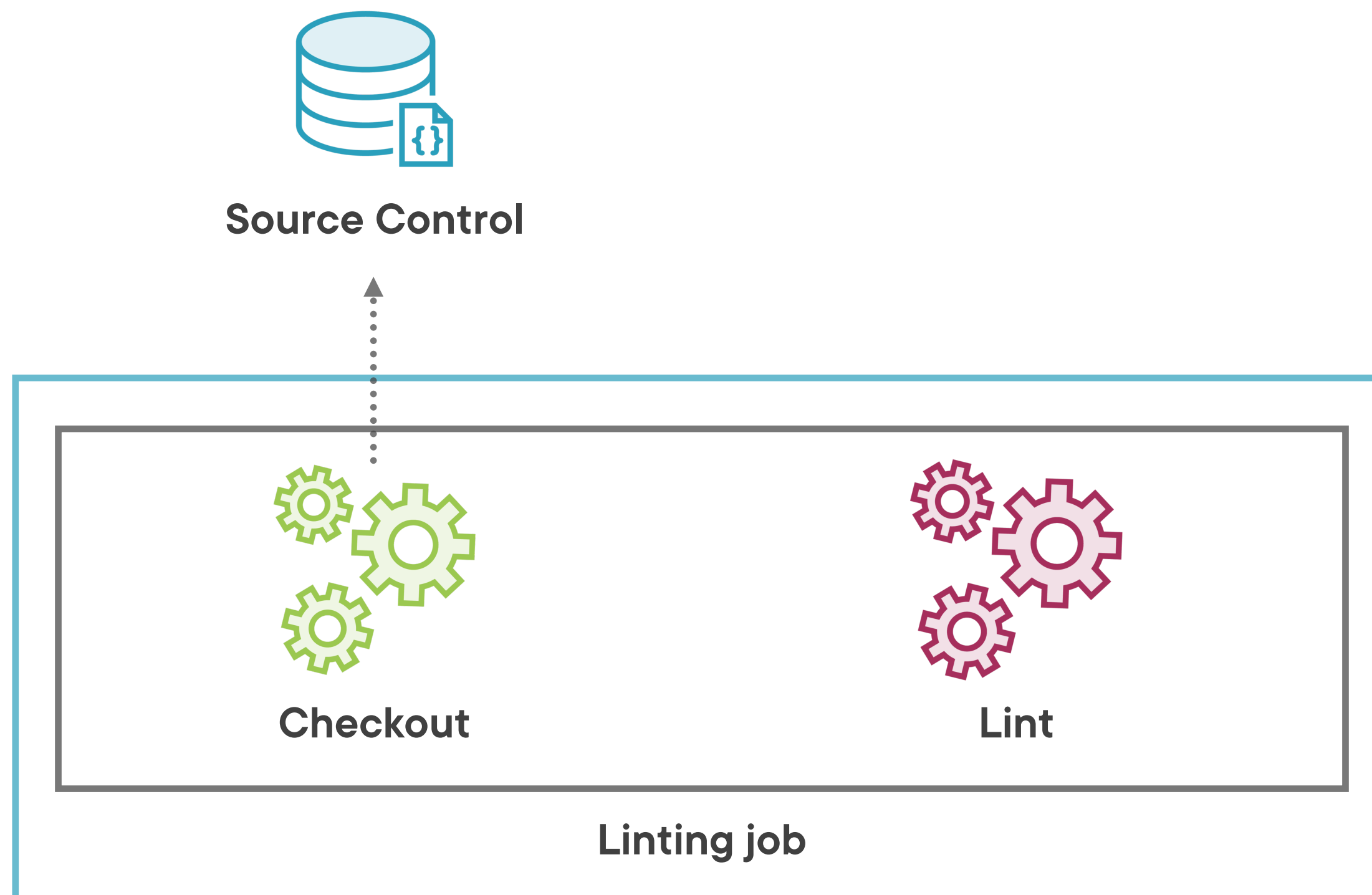
Demo



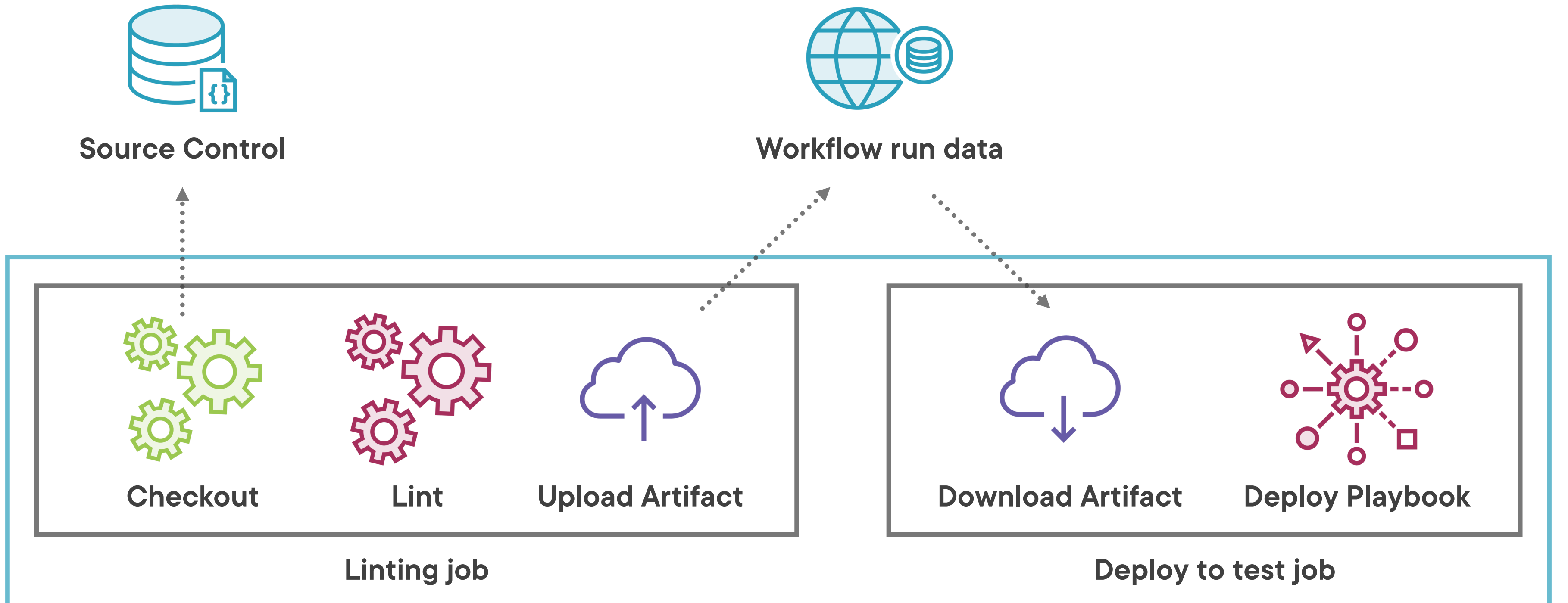
Deploying to the test environment



Deploying to Test



Deploying to Test



Storing the Playbooks as an Artifact

An immutable artifact

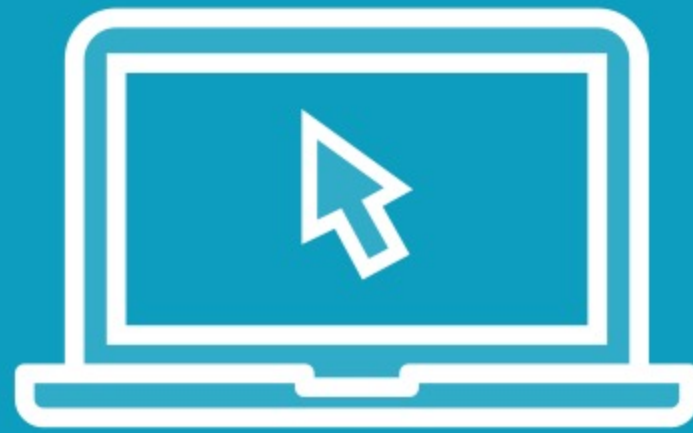
Ensures you use the same files on every consequent use, even in different jobs or when the sources change

Repeatability

If you ever need to rerun an job from two weeks ago, you can – as you have retained all the files involved



Demo



Adding the test inventory

Adding the upload artifact action

Adding a second job

- Download artifact action
- Run Ansible playbook

Adding the repository secret



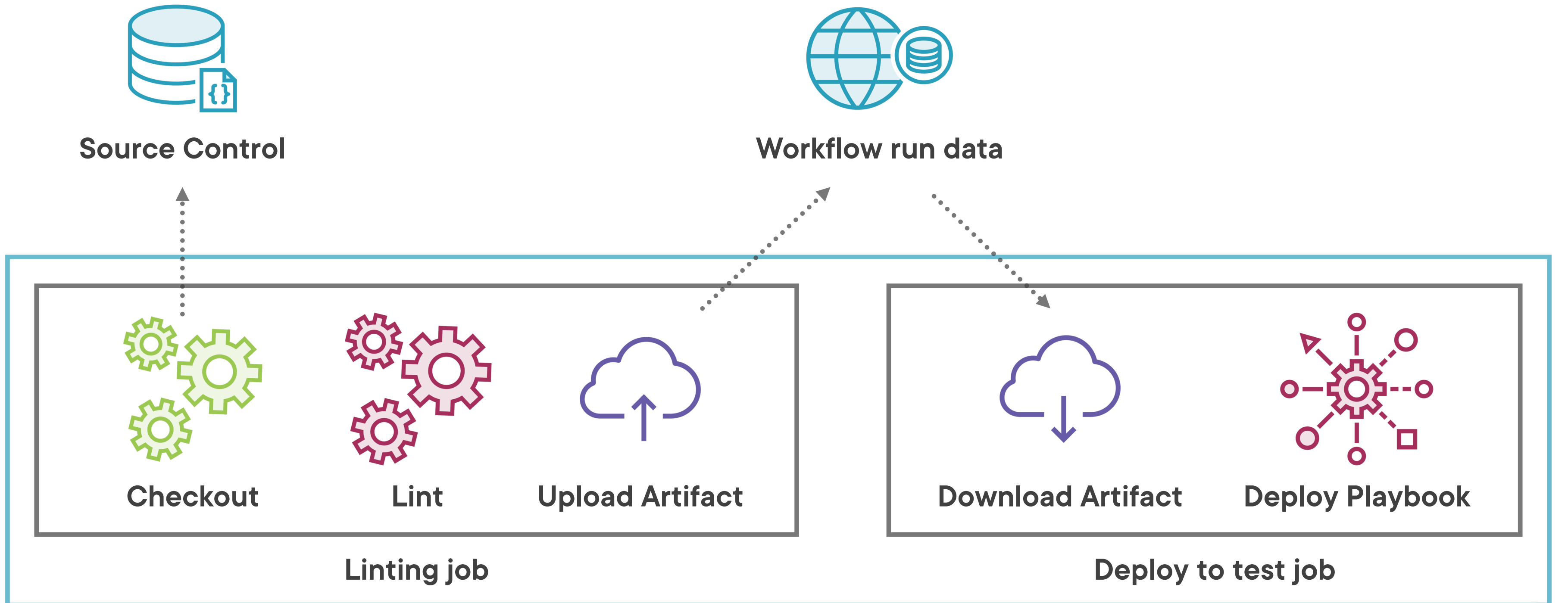
Demo



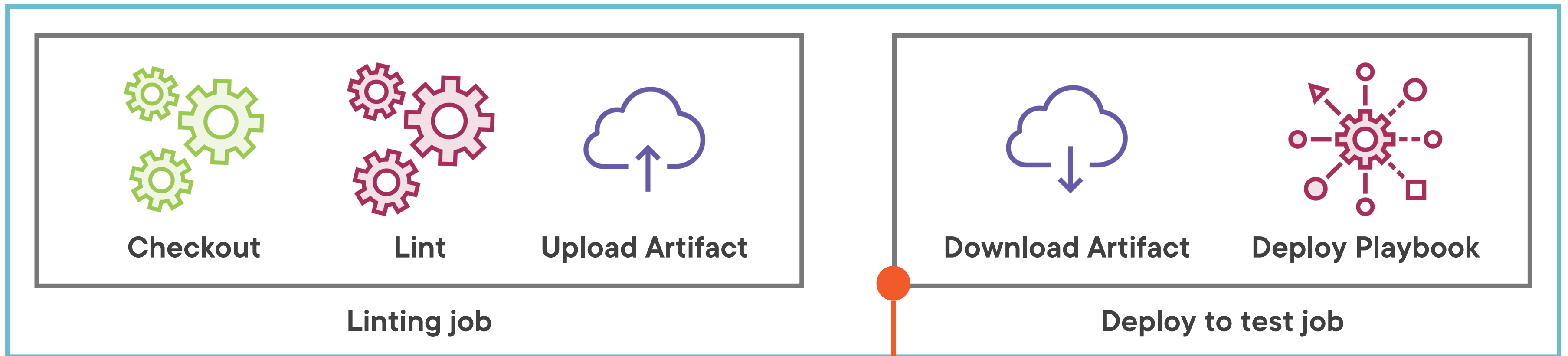
Deploying only from the main branch



Adding a Condition



Adding a Condition



Condition: only run when
the workflow started from
the main branch



Demo



Deploying only from the main branch



Actions notation for expressions

[https://docs.github.com/en/actions/
reference/context-and-expression-
syntax-for-github-actions](https://docs.github.com/en/actions/reference/context-and-expression-syntax-for-github-actions)



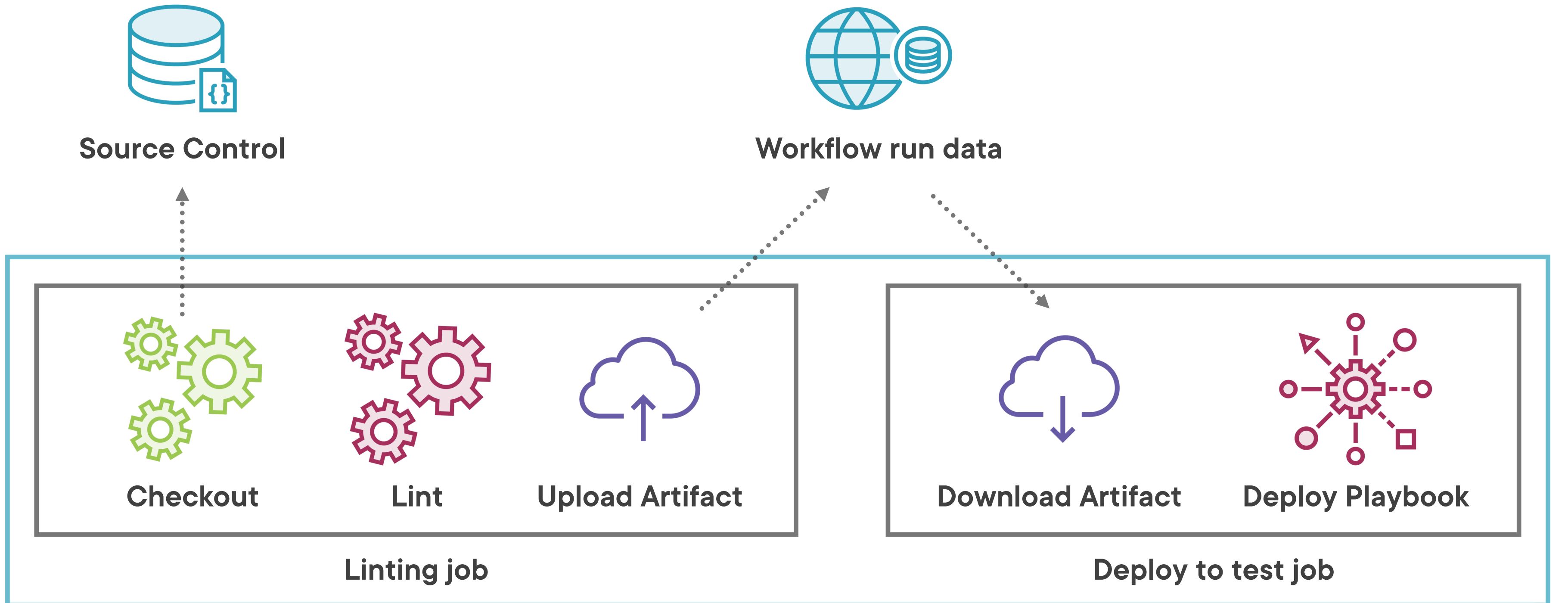
Demo



Deploying to production



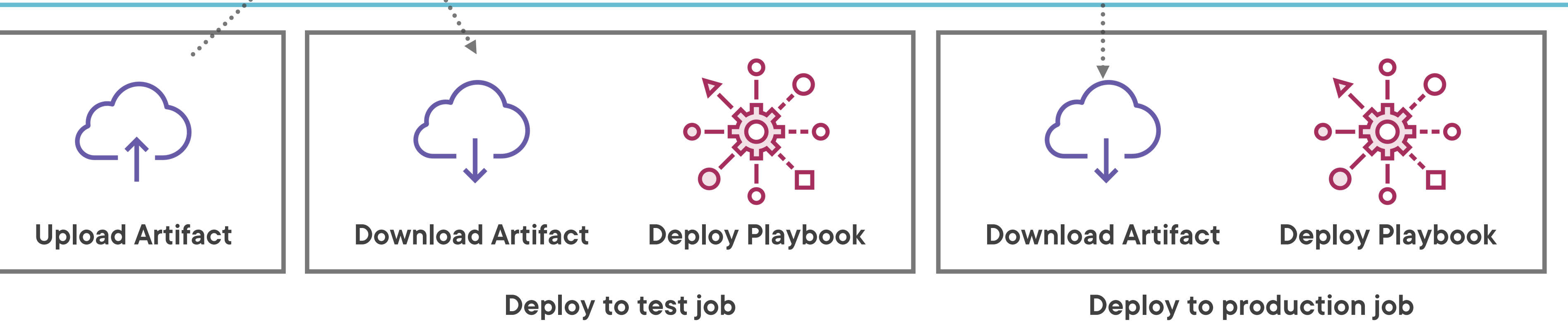
Deploying to Production



Deploying to Production



Workflow run data



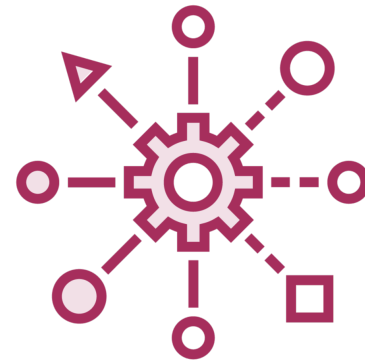
Deploying to Production



Upload Artifact



Download Artifact

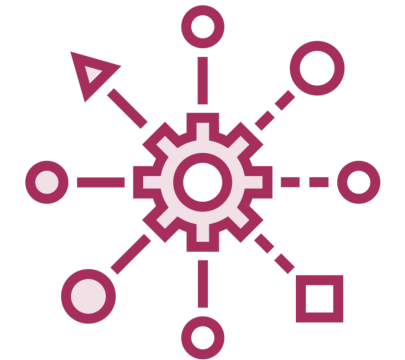


Deploy Playbook

Deploy to test job



Download Artifact



Deploy Playbook

Deploy to production job

Condition: only run when test job ran, and it ran successfully



Demo



Add the production inventory file

Add a third job to deploy to production

Add the production secret



Summary



Deployed playbooks using GitHub Actions

Multiple environments

Implemented some change control

- Limited deployments to the main branch
- Imposed order between deployments

