Getting Started with Concourse

PREPARING A CONCOURSE PIPELINE

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Overview

Explore key concepts

Iterate the core building blocks

Review the Concourse architecture

Review the fly CLI commands

Configure our local environment

Look at user roles

Deploy a pipeline

Dig into the Concourse dashboard

Concourse
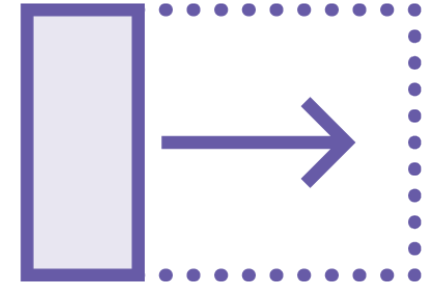
"Concourse is a pipeline-based continuous thing-doer."

https://concourse-ci.org/docs.html

Key Concepts

Declarative pipelines

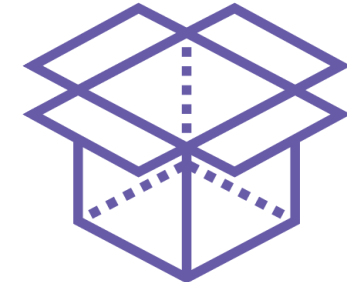**Tasks run in ephemeral containers**

Extensible without plugins

Offers teams and role-based access

API, CLI, and Portal experiences

Fully open source

Concourse Building Blocks

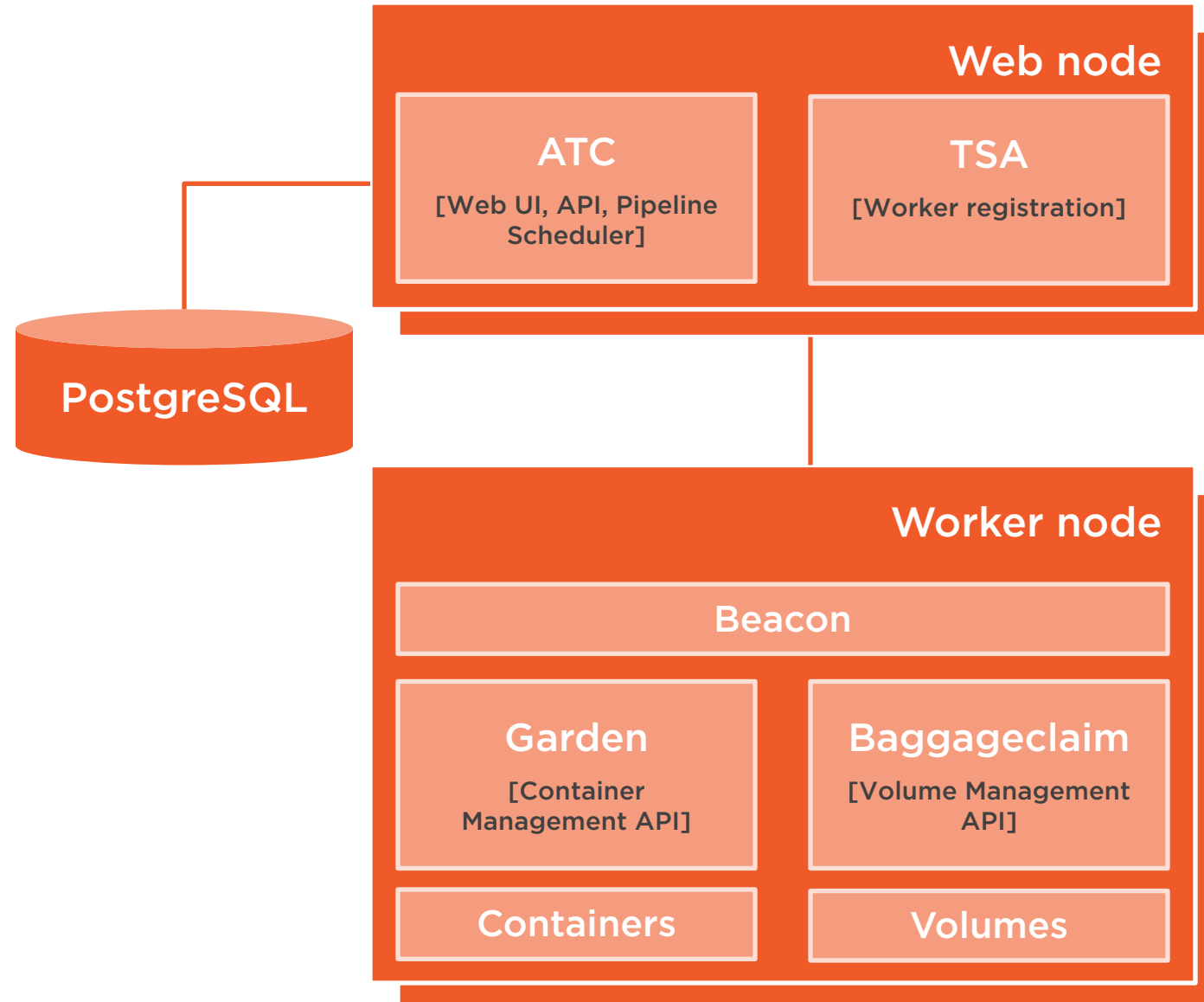|		
Resource	**Resource Type**	**Task**
Job	**Pipeline**	**Build**

The Concourse Architecture

```
> fly targets

> fly --target ps login

> fly --target ps status

> fly --target ps execute
--config task1.yml

> fly --target ps set-
pipeline --pipeline mypipe
--config pipeline.yml

> fly --target ps jobs
--pipeline mypipe
```

◄ **Fly CLI is the primary interface for configuring pipelines**

Demo

Configure our local workstation with Visual Studio Code, Docker, and the Fly CLI

Instantiate a local Concourse environment

Log into our local environment

User Roles in a Concourse

Concourse Admin

Team Owner

Team Member
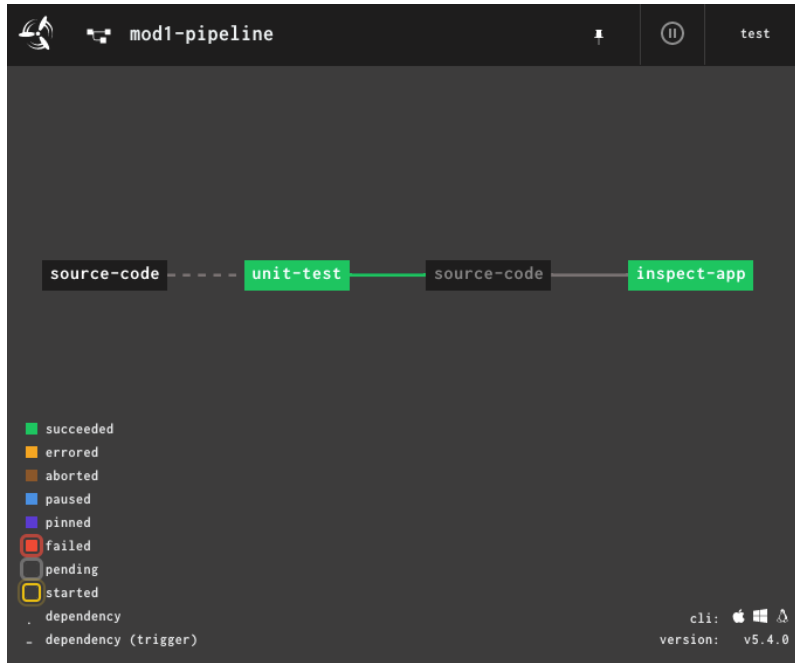
Pipeline Operator

Team Viewer

Anonymous

What You Can Do with the Dashboard

See a list of all deployed pipelines

View resources and jobs in a pipeline

See groups of resources and jobs

Monitor the running state of a pipeline

Navigate to build details

View a legend of states and indicators

Demo

Review a simple Concourse pipeline

Deploy that pipeline to Concourse

Trigger the pipeline and watch it complete

Explore the Concourse Dashboard

Summary

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