

# Set up your Deployment

An Astro Deployment is an Astro Runtime environment that is powered by the core components of Apache Airflow, including the Airflow webserver, scheduler, and one or more workers.

You can create a Deployment from a Workspace on Astro. After you create a Deployment, you can deploy DAGs to it from the Astro CLI or from a continuous delivery (CI/CD) process. All DAGs and tasks on Astro are executed within a Deployment.

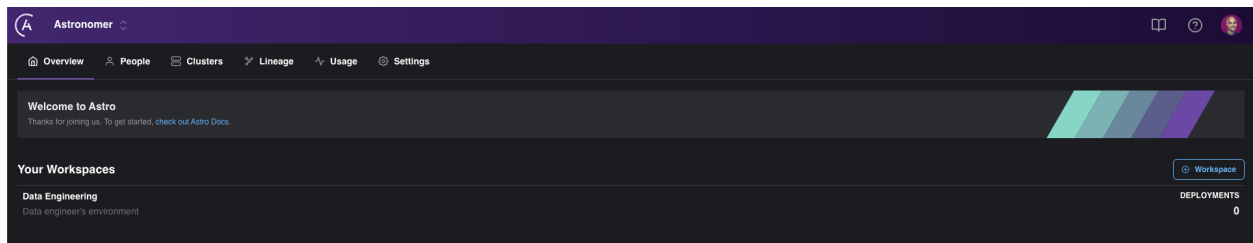
Every Deployment is hosted on a single Astro cluster with its own dedicated resources, which you can customize to meet the unique requirements of your Organization.

## Prerequisites

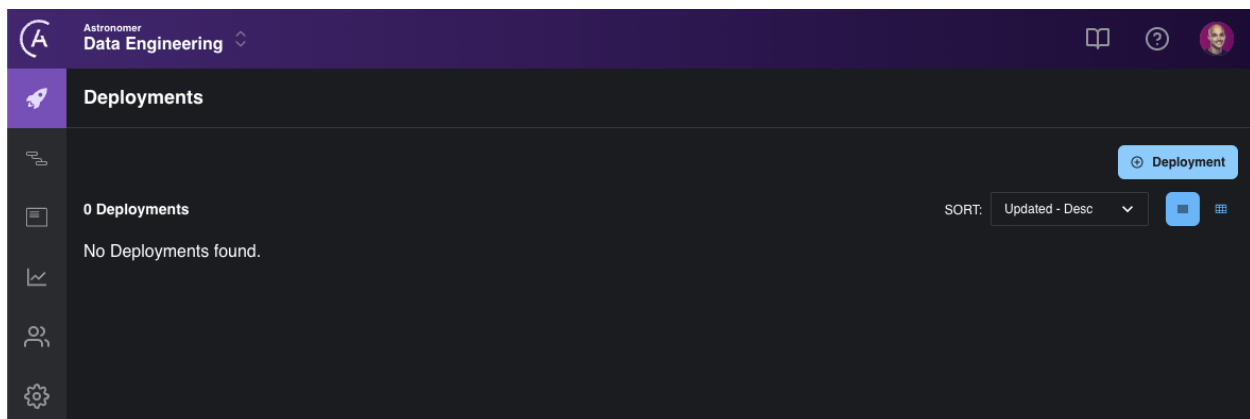
You should have your Workspace set up from the previous activity

## Create your Deployment

On the **Overview tab**, select your Workspace **Data Engineering**

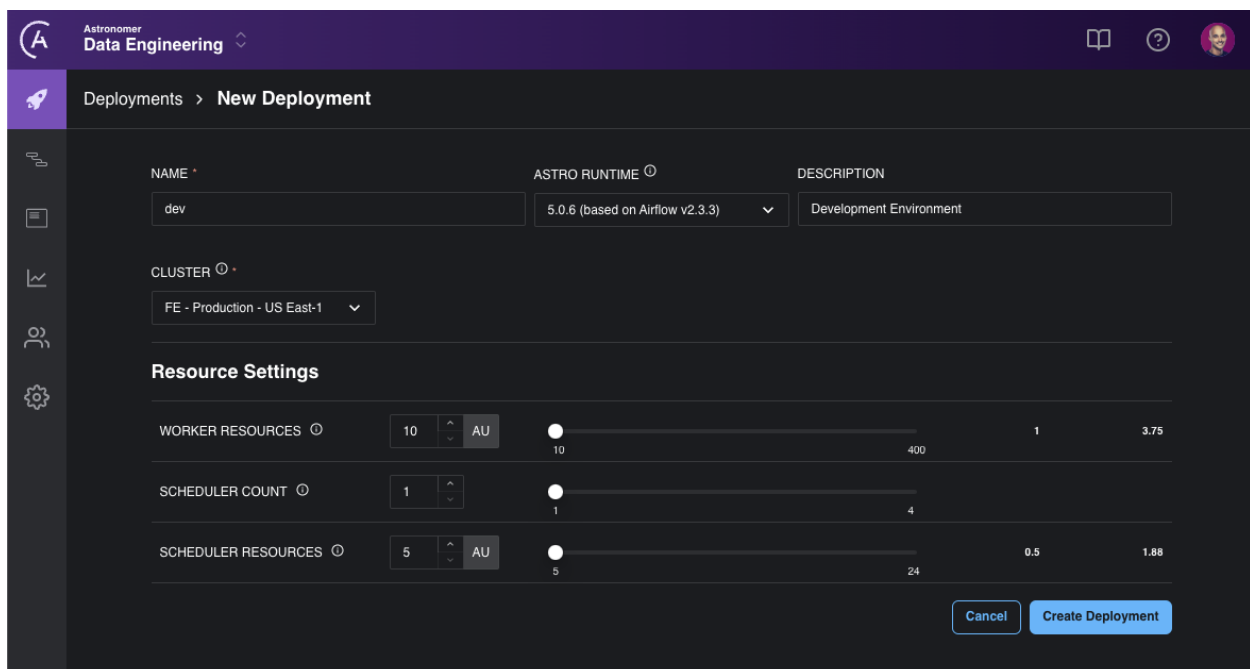


On the Deployments page, click the **+ Deployment** button



Complete the following fields:

- **Name:** `dev`
- **Astro Runtime:** By default, the latest version of Astro Runtime is selected. Keep this one. Notice that you can't downgrade to a lower version. If you want to do that, you will have to create a new Deployment.
- **Description:** `Development environment`
- **Cluster:** Select the Astro cluster in which you want to create this Deployment. You should have your cluster(s) listed here.



Keep the resource settings by default. You will be able to add more resources later if you need to.

Click [Create Deployment](#)

The initial status of all new Deployments is [UNHEALTHY](#)

This indicates that the webserver and scheduler for the Deployment are being created in your Astro cluster. In a few minutes, the status changes to [HEALTHY](#)

The screenshot shows the Astronomer Data Engineering console interface. At the top, the header includes the Astronomer logo, 'Data Engineering', and navigation icons. Below the header, the breadcrumb 'Deployments > dev' is visible. A blue button labeled 'Airflow Unavailable' is present. The main content area displays a deployment card with the status 'UNHEALTHY' highlighted in a red box, with a red arrow pointing to it. The card includes a table with the following data:

STATUS	NAMESPACE	CLUSTER	ASTRO RUNTIME	DOCKER IMAGE	UPDATED	CREATED
UNHEALTHY	ecliptical-flux-5290	FE - Production - US East-1	5.0.6 (based on Airflow v2.3.3)	5.0.6	a few seconds ago	a few seconds ago

Below the table, there are four status indicators: '0 DAGs: 0 of 0 runs failed', 'Tasks: 0 of 0 tasks failed', 'Worker CPU: 0% max of 1 CPU', and 'Worker Memory: 0% max of 3.75GiB'. The 'DESCRIPTION' section shows 'Development Environment'. The 'Configuration' section has an 'Edit Configuration' link. The 'RESOURCE SETTINGS' section includes 'WORKER RESOURCES' (10 AU, 1 CPU, 3.75 GiB MEM), 'SCHEDULER RESOURCES' (5 AU, 0.5 CPUs, 1.88 GiB MEM), and 'SCHEDULER COUNT' (1). There are also links to 'Add Variables' and 'Add API Key'.

After a few minutes, once the status is [HEALTHY](#), click on [Open Airflow](#)

Astronomer  
Data Engineering

Deployments > dev

Open Airflow
Logs
DAGs
Analytics

HEALTHY

NAMESPACE	CLUSTER	ASTRO RUNTIME	DOCKER IMAGE	UPDATED	CREATED
ecliptical-flux-5290	FE - Production - US East-1	5.0.6 (based on Airflow v2.3.3)	5.0.6	5 minutes ago	5 minutes ago

0 DAGs: 0 of 0 runs failed

Tasks: 0 of 0 tasks failed

Worker CPU: 0% max of 1 CPU

Worker Memory: 0% max of 3.75GiB

DESCRIPTION

Development Environment

Configuration

Edit Configuration

RESOURCE SETTINGS

WORKER RESOURCES

10 AU (1 CPU, 3.75 GiB MEM)

SCHEDULER RESOURCES

5 AU (0.5 CPUs, 1.88 GiB MEM)

SCHEDULER COUNT

1

Environment Variables (0)

Add Variables

API Keys (0)

Add API Key

Alert Emails (0)

# Airflow

Hello Airflow on Astro 🙌

DAGs
Browse
Admin
Docs
Astronomer
09:34 UTC

dev

All 1
Active 1
Paused 0

Filter DAGs by tag

Search DAGs

DAG	Owner	Runs	Schedule	Last Run	Next Run	Recent Tasks
<div>astronomer_monitoring_dag</div> <div>monitoring</div> <div>airflow</div>		<div>1</div>	*/5 * * * *	2022-08-10, 09:25:00	2022-08-10, 09:30:00	<div>1</div>

« < 1 > »

Showing 1-1 of 1 DAGs

Well done! You have successfully set up your Deployment and you have a well configured Airflow instance running ready for your data pipelines 😎

## Additional resources

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Upgrade Astro Runtime: <https://docs.astronomer.io/astro/upgrade-runtime>

Astro Runtime release notes: <https://docs.astronomer.io/astro/runtime-release-notes>

Create a Deployment: <https://docs.astronomer.io/astro/create-deployment>

Configure Deployment resources: <https://docs.astronomer.io/astro/configure-deployment-resources>