



Deploy Postgres from a Helm chart

Astra

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Deploy Postgres from a Helm chart

Learn how to deploy Postgres from the Bitnami Helm chart. After you deploy Postgres on your cluster, you can register the application with Astra Control.

Postgres is a validated app for Astra Control. [Learn the difference between Validated and Standard apps.](#)



Applications deployed from Google Marketplace have not been validated. Some users report issues with discovery and/or backup with Google Marketplace deployments of Postgres, MariaDB, and MySQL.

Requirements

- A fresh GKE cluster which has been added to Astra Control Service.
- Updated versions of Helm (version 3.2+) and Kubectl installed.
- Kubeconfig configured using the gcloud tool with a command like `gcloud container clusters get-credentials my-cluster-name`

Install Postgres

Two important notes on this process:

- You must deploy your app after the cluster is added to Astra Control, not before.
- You must deploy the Helm chart in a namespace other than the default.

Add the Bitnami chart repo:

```
helm repo add bitnami https://charts.bitnami.com/bitnami
```

Deploy Postgres with the command:

```
kubectl create namespace testdb && helm install bitnami/postgresql  
--namespace testdb --set  
postgresqlPassword=U9dH9HT4pWS,postgresqlDatabase=test_db --generate-name
```

This does the following:

- Creates the `testdb` namespace.
- Deploys Postgres on the `testdb` namespace.
- Creates a database named `test_db`
- Creates a user `test_db_user` with password `U9dH9HT4pWS`



This method of setting the password at deployment is insecure. We do not recommend this for a production environment.

After the pods are online, you can manage the app with Astra Control. Astra Control allows you to manage an app at the namespace level or using a helm label.

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