# **■** NetApp

# **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.

Postgres is a validated app for Astra. 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.
- Updated versions of Helm (version 3.2+) and Kubectl installed.
- Kubeconfig configured using the gcloud tool with a command like gcloud container clusters getcredentials my-cluster-name

## **Install Postgres**

Two important notes on this process:

- You must deploy your app after the cluster is added to Astra, 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 conamespace level or u	online, you can u using a helm labe	manage the	e app with	n Astra.	Astra	allows	you	to	manage	an	арр	at	the

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