



Protect apps with snapshots and backups

Project Astra

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Protect apps with snapshots and backups

Protect your apps by taking snapshots and backups using an automated protection policy or on an ad-hoc basis.

Snapshots and backups

A *snapshot* is a point-in-time copy of an app that's stored on the same provisioned volume as the app. They are usually fast. Local snapshots are used to restore the application to an earlier point in time.

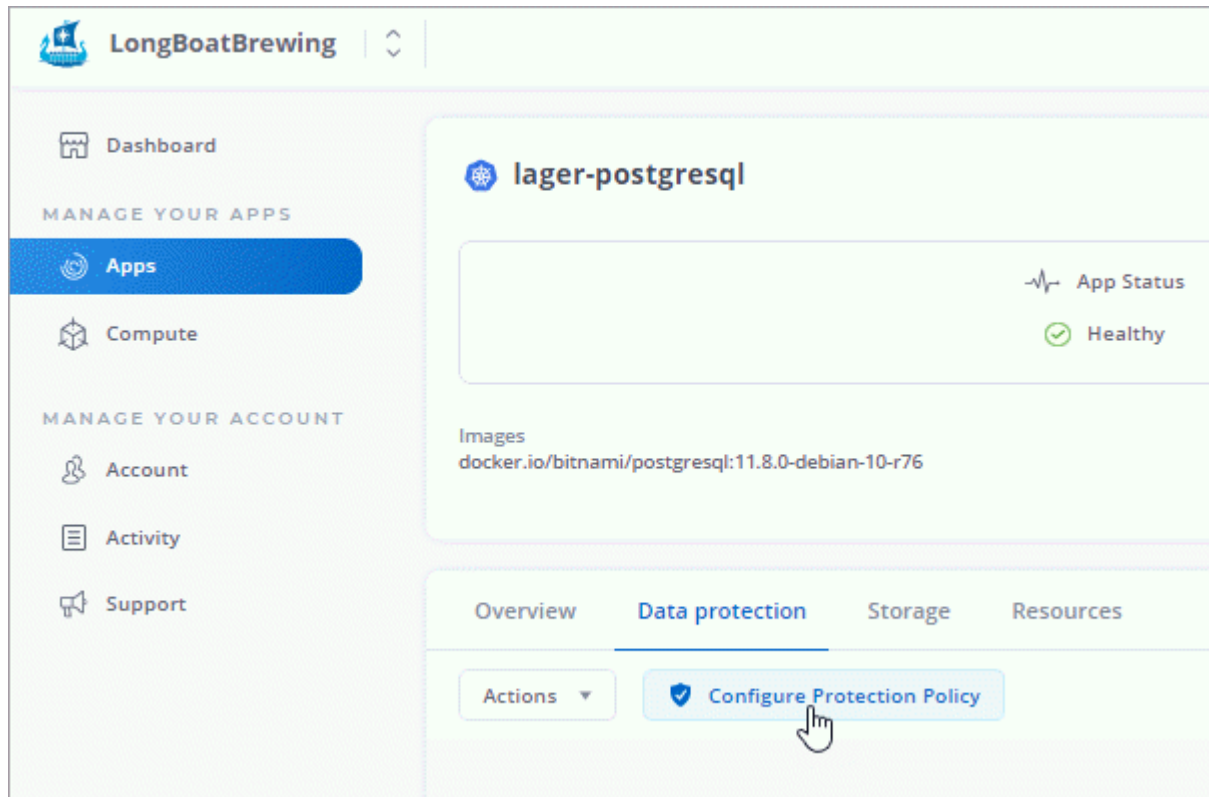
A *backup* is stored on object storage. A backup can be slower to take compared to the local snapshots. However, they can be accessed across regions in the cloud. Backups are used for migrating applications across cloud regions. Also, you can choose to have a longer retention period for backups.

Configure a protection policy

Configure a protection policy to protect an app by creating snapshots, backups, or both at a defined schedule and with a specified number of copies to retain.

Steps

1. Click **Apps** and then click the name of an app.
2. Click **Data Protection**.
3. Click **Configure Protection Policy**.



4. Define a protection schedule by choosing the number of snapshots and backups to keep hourly, daily, weekly, and monthly.

You can define the hourly, daily, weekly, and monthly schedules concurrently. A schedule won't turn active until you set a retention level.

The following example sets a schedule to take snapshots daily and weekly, while retaining the last 14 hourly snapshots and the last 26 weekly snapshots. It also takes monthly backups and retains the last 12 copies. Because 0 copies were selected for hourly, no hourly snapshots or backups are taken.

Configure Protection Policy STEP 1/2: DETAILS

APP DETAILS

Overview

Application Snapshots

Set a schedule to protect your application with snapshots and/or backups of your app metadata and persistent volume contents. Known applications will be quiesced so a consistent backup can be taken. Quiesce operations will take no longer than 60 seconds. Setting Snapshots and Backups to keep to 0 will disable a schedule.

Application: lager-postgresql

Group: pg-lager

Compute: ejk-beta01

PROTECTION SCHEDULE

- Daily at 08:00 (UTC), keep the last 14 snapshots
- Weekly on Monday at 20:00 (UTC), keep the last 26 snapshots
- Every 1st of the month at 20:00 (UTC), keep the last 12 backups

Hourly Daily Weekly Monthly

Time (UTC): 08:00

Snapshots to keep: 14

Backups to keep: 0

Cancel Review Information

5. Click **Review Information**.
6. Click **Set Protection Policy**.

Result

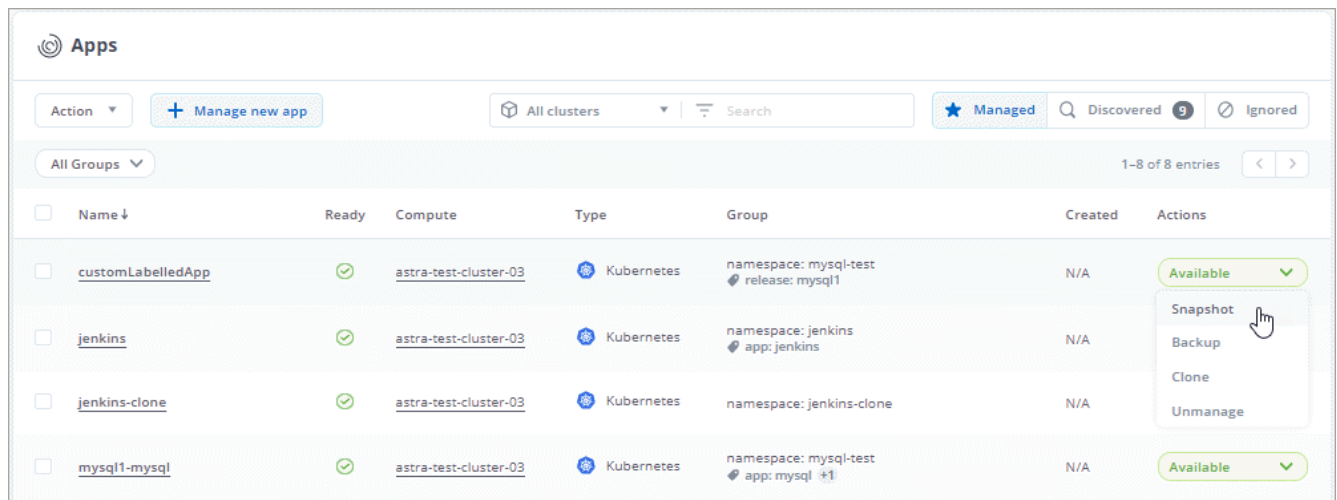
Astra implements the data protection policy by creating and retaining snapshots and backups using the schedule and retention policy that you defined.

Create a snapshot

You can create an on-demand snapshot at any time.

Steps

1. Click **Apps**.
2. Click the drop-down list in the **Actions** column for the desired app.
3. Click **Snapshot**.



4. Customize the name of the snapshot and then click **Review Information**.
5. Review the snapshot summary and click **Snapshot App**.

Result

Astra creates a snapshot of the apps.

Create a backup

You can also back up an app at any time.

Steps

1. Click **Apps**.
2. Click the drop-down list in the **Actions** column for the desired app.
3. Click **Backup**.

The screenshot shows the 'Apps' management page. At the top, there's a header with 'Apps' and a search bar. Below the header, there's a table with columns: Name, Ready, Compute, Type, Group, Created, and Actions. The table lists four applications: customLabelledApp, jenkins, jenkins-clone, and mysql1-mysql. The 'Actions' column for each application has a dropdown menu. The dropdown for 'jenkins' is open, showing options: Snapshot, Backup, Clone, and Unmanage. A mouse cursor is pointing at the 'Backup' option.

Name	Ready	Compute	Type	Group	Created	Actions
customLabelledApp	✓	astra-test-cluster-03	Kubernetes	namespace: mysql-test release: mysql1	N/A	Available ✓
jenkins	✓	astra-test-cluster-03	Kubernetes	namespace: jenkins app: jenkins	N/A	Available ✓ Snapshot Backup Clone Unmanage
jenkins-clone	✓	astra-test-cluster-03	Kubernetes	namespace: jenkins-clone	N/A	
mysql1-mysql	✓	astra-test-cluster-03	Kubernetes	namespace: mysql-test app: mysql 1	N/A	

4. Customize the name of the backup, choose whether to back up the app from an existing snapshot, and then click **Review Information**.
5. Review the backup summary and click **Backup App**.

Result

Astra creates a backup of the app.

View snapshots and backups

You can view the snapshots and backups of an app from the Data Protection tab.

Steps

1. Click **Apps** and then click the name of an app.
2. Click **Data Protection**.

The snapshots display by default.

The screenshot shows the 'Data protection' tab. At the top, there's a header with 'Overview', 'Data protection', 'Storage', and 'Resources'. Below the header, there's a table with columns: Name, Ready, On-Schedule/On-Demand, Created, and Actions. The table lists two snapshots: ns-maria-snapshot-20200923235241 and ns-maria-snapshot-20200923195151. The 'Actions' column for each snapshot has a dropdown menu. The dropdown for 'ns-maria-snapshot-20200923235241' is open, showing options: Available and Unmanage.

Name	Ready	On-Schedule/On-Demand	Created	Actions
ns-maria-snapshot-20200923235241	✓	On-Demand	2020/09/23 23:52 UTC	Available ✓ Unmanage
ns-maria-snapshot-20200923195151	✓	On-Demand	2020/09/23 23:51 UTC	Available ✓ Unmanage

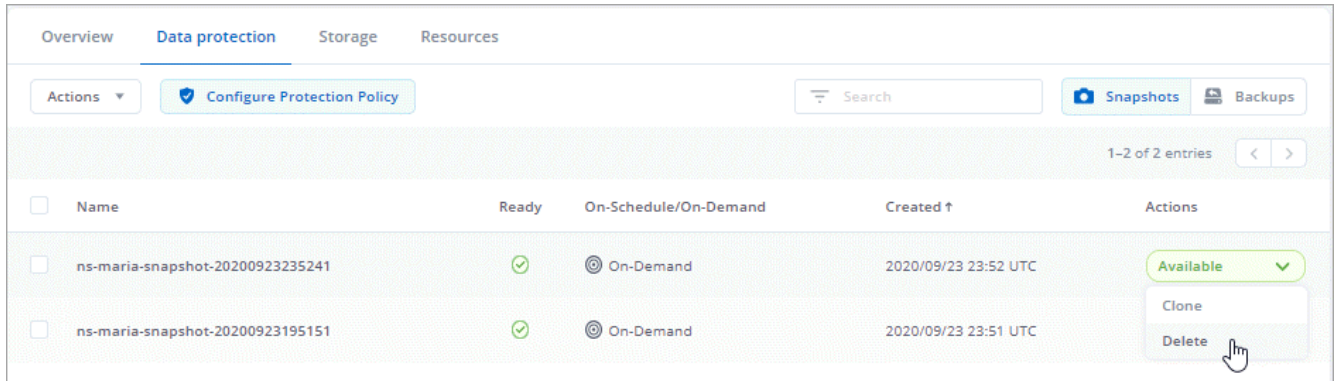
3. Click **Backups** to see the list of backups.

Delete snapshots

Delete the scheduled or on-demand snapshots that you no longer need.

Steps

1. Click **Apps** and then click the name of an app.
2. Click **Data Protection**.
3. Click the drop-down list in the **Actions** column for the desired snapshot.
4. Click **Delete**.



5. Type the name of the snapshot to confirm deletion and then click **Yes, Delete snapshot**.

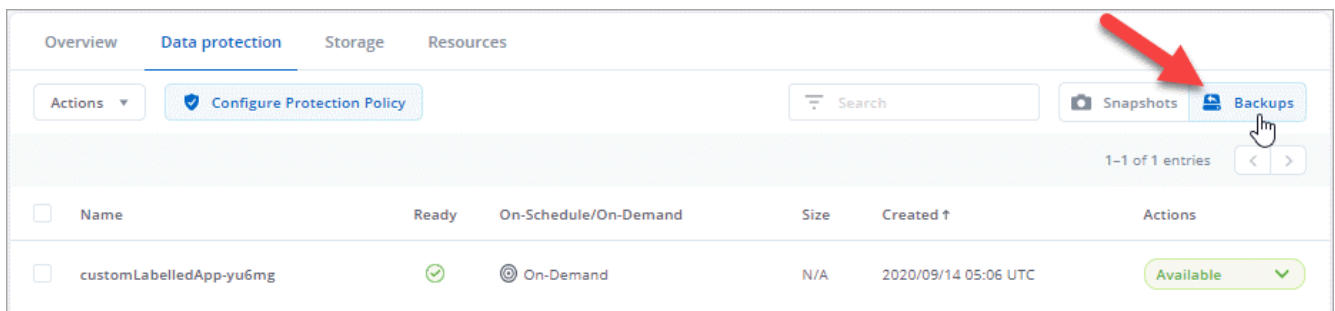
Result

Astra deletes the snapshot.

Delete backups

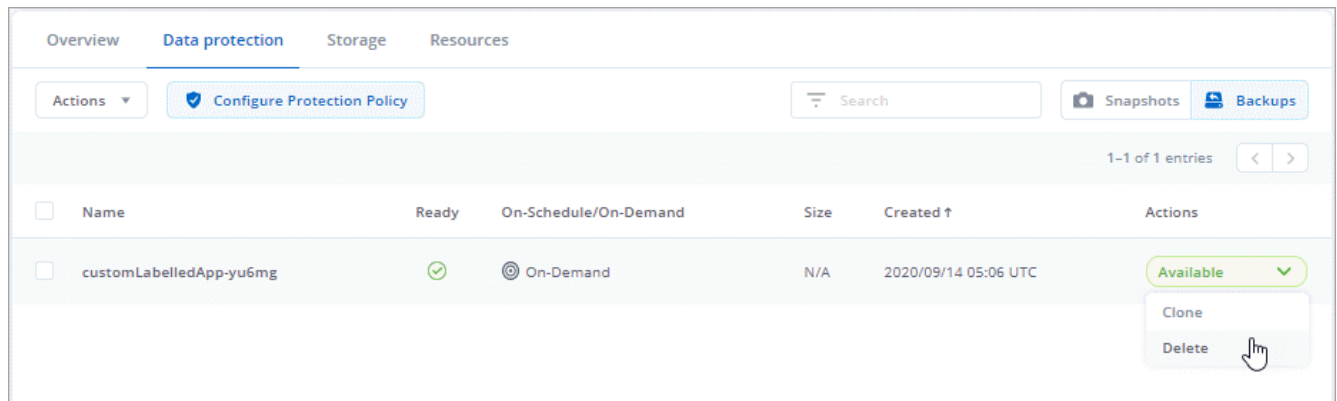
Delete the scheduled or on-demand backups that you no longer need.

1. Click **Apps** and then click the name of an app.
2. Click **Data Protection**.
3. Click **Backups**.



4. Click the drop-down list in the **Actions** column for the desired backup.

5. Click **Delete**.



6. Type the name of the backup to confirm deletion and then click **Yes, Delete backup**.

Result

Astra deletes the backup.

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