

# Long Term Retention for Azure Database for PostgreSQL Flexible Server

## Important Reminders

Long Term Retention (LTR) backups are currently available in private preview for select customers only.

LTR backups during private preview should be only enabled on **non -production** servers. Microsoft does not recommend or support enabling features in private preview for production usage.

LTR feature is currently available only in **East US1, East US2, West Europe, North Europe, Switzerland North, Central US, Australia East regions** only.

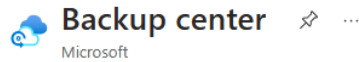
LTR can be accessed only using this URL. <https://aka.ms/ossflexbackup>

LTR restore is currently available to **RestoreasFiles** to storage accounts, **RestoreasServer** will be available in future.

Please follow the steps below to enable LTR for your Azure Database for PostgreSQL Flexible Server

1. Please open this URL to access LTR <https://aka.ms/ossflexbackup>
2. Please search for **Backup Center**
3. Create a Vault by clicking **the Vault** button.

Home >



Search

+ Backup + Restore + Policy + Vault Refresh Feedback Help

Create Vault

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Find out about exciting new features and capabilities offered by Azure Backup. Click here to learn more →

Datasource subscription == Visual Studio Enterprise Subscription

Datasource resource group == All

Datasource location

☐ Only show information about datasources which I have access to [Learn more.](#)

### Datasource type: Azure Virtual machines

Overview of Jobs and Backup instances

#### Jobs (last 24 Hours)

[View all](#)

Operation	Failed	In progress	Completed
Scheduled backup	0	0	0
On-demand backup	0	0	0
Restore	0	0	0

#### Backup instances

##### Azure Virtual machines

0

Protection configured

Protection stopped

Soft deleted

0

out of 0

Backup instances with t  
found

## 4. Choose **Backup Vault** and click **continue**.

Home > Backup center >

### Start: Create Vault

A vault is an entity that stores the backups and restore points created over time. The vault also contains the backup policies that are associated with the protected virtual machines. Proceed to vault creation by selecting vault type.

Vault Type

☐ Recovery Services vault

Supported datasources

- ✓ Azure Virtual machines
- ✓ SQL in Azure VM
- ✓ Azure Files (Azure Storage)
- ✓ SAP HANA in Azure VM
- ✓ Azure Backup Server
- ✓ Azure Backup Agent
- ✓ DPM

Learn more about Recovery Services vault. [Click here.](#)

☒ Backup vault

Supported datasources

- ✓ Azure Disks
- ✓ Azure Blobs (Azure Storage)
- ✓ Azure Database for PostgreSQL servers
- ✓ Kubernetes Services (Preview)
- ✓ Azure Database for MySQL (Preview)
- ✓ Azure Database for PostgreSQL flexible servers (Preview)
- ✓ Azure Key Vault Managed HSMs (Preview)

Learn more about Backup vault. [Click here.](#)

Continue

Cancel

5. Choose your resource group, location, redundancy option and provide a vault name and click **Create**.

[Home](#) > [Backup center](#) > [Start: Create Vault](#) >

## Create Backup Vault ...

Data Protection

**Basics** Vault Properties Tags Review + create

A backup vault is a storage entity in Azure that houses data and lets you organize your backups. [Learn more](#) 

### PROJECT DETAILS

Select the subscription and the resource group in which you want to create the vault.

Subscription *	<input type="text" value="Visual Studio Enterprise Subscription"/>
Resource Group *	<input type="text" value="kb-rg"/>

[Create new](#)

### INSTANCE DETAILS

Backup vault name *	<input type="text" value="litrvault"/>
Region *	<input type="text" value="Switzerland North"/>
Backup storage redundancy *	<input type="text" value="Locally-redundant"/>

Storage redundancy of a Backup Vault cannot be changed once selected. Geo-redundant storage provides the highest level of data durability, followed by Zonally-redundant storage and then Locally-redundant storage. The costs are proportionate to the durability guarantees. Review the trade-offs between lower cost and higher data durability that is best for your scenario. [Learn more](#)

[Review + create](#)

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[Next: Vault Properties >](#)

[Feedback](#)

You can optionally select vault properties if you would like to enable immutability and soft delete. Please note these features might not be available in all regions.

Basics **Vault Properties** Tags Review + create

Enable immutability ⓘ ☐ ⓘ Immutability functionality is not available in the selected region.

Enable soft delete ⓘ ☐ ⓘ Soft delete functionality is not available in the selected region.

Cross Subscription Restore ⓘ

ⓘ Immutability and soft delete, if enabled here, will be reversible and can be disabled using the vault's properties after its creation. You can further choose to lock these and make them irreversible, also through the vault's property. Learn more about [locking immutability](#) and [always-on soft delete](#).

6. Let's create the Backup Policy now. To do this please go to **Backup Policies** from **Backup Center** and click **Add**.

Select Data source as **Azure Database for PostgreSQL Flexible Servers (Preview)**, provide your policy name and choose your vault name created from step 5.

Choose **Schedule + Retention** to change the schedule. Currently only weekly option is available, but you can schedule the backups on multiple days of the week to make it daily or twice a week.

# Create Backup Policy ...

- 1 Basics
- 2 Schedule + retention
- 3 Review + create

Policy name \*

ltr-backup-policy ✓

Datasource type \* ⓘ

Azure Database for PostgreSQL flexible servers (Preview) ▾

Vault \*

ltrvault

Select vault

Selected backup vault details

Subscription	Visual Studio Enterprise Subscription
Resource group	kb-rg
Location	Switzerland North
Backup storage redundancy	Locally-redundant

## Create Backup Policy ...

- ① Basics    ② **Schedule + retention**    ③ Review + create

### Backup schedule

Specify time when the backup will happen

Backup Frequency ⓘ

☒ Weekly

Days \*

Time

Timezone

Retention settings (in the order of priority)

Specify lifecycle and storage tier for backup

#### Retention rules

Default

[Add retention rule](#)

7 selected

- ☒ Sunday
- ☒ Monday
- ☒ Tuesday
- ☒ Wednesday
- ☒ Thursday
- ☒ Friday
- ☒ Saturday

You can add one or more retention rules. Each retention rule assumes inputs for specific backups, and data store and retention duration for those backups.

Retention duration ranges from seven days to 10 years in the Backup data store.

**Note:** The retention rules are evaluated in a pre-determined order of priority. The priority is the highest for the yearly rule, followed by the monthly, and then the weekly rule. Default retention settings are applied when no other rules qualify. For example, the same recovery point may be the first successful backup taken every week as well as the first successful backup taken every month. However, as the monthly rule priority is higher than that of the weekly rule, the retention corresponding to the first successful backup taken every month applies.

Home > Backup center | Backup policies > Start: Create Policy >

## Create Backup Policy ...

① Basics ② **Schedule + retention** ③ Review + create

### Backup schedule

Specify time when the backup will happen

Backup Frequency ☐ Weekly

Days

Time

Timezone

### Retention settings (in the order of priority)

Specify lifecycle and storage tier for backups. [Learn more](#)

Retention rules	Vault-standard
Default	10 Years

[Add retention rule](#) [View details](#)

[Review + create](#) [< Previous](#) [Next: Review + create >](#) [Feedback](#)

### Add retention

Your backups are set to happen weekly. You can pick specific backups every week/month/year and define data store in which these backups are retained.

#### Retention rules

#### Data store

Provide the retention duration up to which the backups are to be retained in the data stores.

☒ **Vault-standard**

Retention duration

[Add](#) [Cancel](#)

We have so far created the **backup vault** and **backup policy** with our retention requirements. Now let's configure LTR backups for Azure Database for PostgreSQL Flexible Server Instance.

- Go to **Backup center** or **Backup Vault** and click **Backup** and provide the vault details by selecting the flexible server data source type.

Home > Backup center

## Backup center | Backup instances

Microsoft

Search < + Backup Restore Refresh Select columns Open Query Feedback

Resources protected by Azure Site Recovery can now be monitored across subscriptions, regions, vaults etc., Click here to view all replicated items. →

Datasource subscription == Visual Studio Enterprise Subscription Datasource resource group == All Datasource location == /

Protection status == All Tags == All

The backup instances shown below are from the **Primary Region**. If any of your vault have Geo-Redundant Storage (GRS) enabled, then use the Instance R

Filter by name

0-0 of 0 items

Name	Datasource subscription	Datasource resource group
No data available		

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- Protectable datasources

Support + troubleshooting

- New support request

Home > Backup center | Backup instances > Start: Configure Backup >

## Configure Backup

1 Basics 2 Backup policy 3 Datasources 4 Review + configure

Datasource type \* ⓘ Azure Database for PostgreSQL flexible servers (Preview) ✓

Vault \* Itrvault ✓

[Change vault](#) [Create vault](#)

### Selected backup vault details

Subscription	Visual Studio Enterprise Subscription
Resource group	kb-rg
Location	Switzerland North
Backup storage redundancy	Locally-redundant

Backup policy defaults to vault backup policy, you can create a new one if you wish.



## Configure Backup ...

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Backup policy \* litr-backup-policy [Create new](#)

Backup frequency Every week on Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday at 02:30 | UTC

Retention settings (in the order of priority) ⓘ

Retention rules	Vault-standard	
Default	10 Years	<a href="#">View details</a>

In Data sources click **Add/Edit** and select your flexible server instance and click the server's name. Please click **Assign missing roles** and you might see below pop-message requesting you to grant access for missing permissions. Click **Confirm**

## Configure Backup ...

1 Basics 2 Backup policy 3 Datasources 4 Review + configure

ⓘ Please ensure the pre-requisites are met before proceeding - [Learn more](#)

+ Add/Edit | ↺ Revalidate | ✓ Assign missing roles | ⬇ Download role assignment template | ✕ Remove

✓ Datasource name	Subscription	Resource group	Backup readiness
✓ Itserver	Visual Studio Enterprise Subscription	kb-rg	❗ Role assignment not done <a href="#">View details</a> ✕

❗ For Role assignment error under 'Backup Readiness' column, please select the corresponding data source(s) by checking on the check box and click on 'Assign missing roles' to continue. In case if you do not have permission to grant access to the selected data source(s), use 'Download role assignment template' option. For more details, click on 'view details' on the error message under Backup readiness column.

## Grant missing permissions

We will attempt to automatically propagate role assignment changes and try to revalidate. In some cases it can take upto 10 mins for the role assignment to propagate, resulting in revalidation failures. In such cases, please wait for a few minutes before revalidating again.

Scope ⓘ

Resource

Confirm

Cancel

Once you do it you should see the success message. Click **Next** and select **Configure Backup**

✓ Basics ✓ Backup policy ⓘ Datasources ⓘ Review + configure

ⓘ Please ensure the pre-requisites are met before proceeding - [Learn more](#)

+ Add/Edit | ↺ Revalidate ✓ Assign missing roles ↓ Download role assignment template | ✕ Remove

✓ Datasource name	Subscription	Resource group
✓ ltrserver	Visual Studio Enterprise Subscription	kb-rg

✓ Backup readiness check completed.

- LTR backups run on schedule, but you can trigger a on demand backup. To do this go to **Backup Vault** choose **Backup Instances**, select your flexible server, and click **Backup Now**

### ltrserver

Backup instance

⬇ Backup Now | ↺ Restore | ↔ Change policy | ⏸ Stop Backup | ⏪ Resume Backup | 🗑 Delete | ↶ UnDelete | 🔄 Refresh

#### Essentials

Datasource : ltrserver  
Datasource type : Azure Database for PostgreSQL flexible servers (Preview)  
Subscription (move) : [Visual Studio Enterprise Subscription](#)  
Subscription ID : 4552f771-b98d-47e9-a40a-c4adff0f61a5  
Resource group (move) : [kb-rg](#)

Location : Switzerland  
Status : Protection  
Backup Vault : [ltrvault](#)  
Backup Policy : [ltr-backup](#)  
Storage redundancy : Locally-replicated

#### Jobs (last 7 days)

[View all](#)

Operation	❌ Failed	🔄 In progress	✅ Completed
Scheduled backup	0	0	0
On-demand backup	0	1	0
Restore	0	0	0

#### RESTORE POINTS

9. If you have configured LTR for many servers, you can monitor all-backup jobs using **Backups jobs** from vault.

Backup vault

Search

Refresh Select columns Feedback

Subscription == AzureBackup\_Functional\_Testing Resource group == viveksi

Datasource ... == Azure Database for PostgreSQL flexible server... Vault == pgflexecy

Time range : Last week Status == All Operation == All

☐ Only show information about datasources which I have access to [Learn more.](#)

Filter by backup instance

1-15 of 34 items

Backup instance	Operation	Status	Start time	Duration
pgflexbugbash1	On-demand backup	In progress	28/8/2023, 12:00:28 ...	00:01:41
pgflexecy	On-demand backup	In progress	28/8/2023, 11:53:24 ...	00:08:44
pgflexbugbash4	Restore	Completed	28/8/2023, 11:47:43 ...	00:01:34
pgflexbugbash1	Restore	Completed	28/8/2023, 11:33:55 ...	00:02:06
pgflexbugbash4	On-demand backup	Completed	28/8/2023, 11:32:16 ...	00:09:45
pgflexbugbash1	On-demand backup	Completed	28/8/2023, 11:02:54 ...	00:10:14

10. To initiate a Restore Go to **Backup vault -> Backup Instances**. Select the PostgreSQL-Flexible server to be restored and right click options to choose “**Restore**” and click **Next: Restore parameters**.

Backup vault

Backup vault

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🔗 Open Query

🗨 Feedback

Subscription == Visual Studio Enterprise Subscription

Resource group == kb-rg

Datasource ... == Azure Database for PostgreSQL flexible server...

Vault == Itrvault

Protection status == All

☐ Only show information about datasources which I have access to [Learn more.](#)

Filter by name

1-1 of 1 items

Name	Datasource resource group	Backup policy
Itrserver	kb-rg	Itr-backup-policy

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Next >

Choose your storage account and container, if you don't have one then create them before initiating a restore.

Home > Itrvault | Backup instances > Itserver >

## Restore ...

① Basics    ✓ Restore point    ② Restore parameters    ④ Review + restore

ℹ Please select the target details to restore

Restore configuration ( [Select](#) )

### Configure restore destination

ℹ Please ensure all pre-requisites are met before proceeding further. [Learn more](#)

Target Storage account \*

ltrnestorestorageaccount ✓

[Select from existing storage accounts](#)

Target Container \* ⓘ

ltrcontainer ▼

Once done. Please click **Validate**, if you get permission errors, please click **Assign missing roles** and once validation is successful, please click **restore**.

# Restore ...

- 1 Basics
- 2 Restore point
- 3 Restore parameters
- 4 Review + restore

Please select the target details to restore

## Restore configuration (Edit)

targetStorageAccountLabel	ltrstorestorageaccount
targetContainerLabelLabel	ltrcontainer

Restore validation is in progress.

- Validate
- Assign missing roles
- Download role assignment template

# Notifications ✕

More events in the activity log → Dismiss all ▼

✓ **Triggering restore for ltrserver** ✕

Restore triggered successfully. Please monitor progress in backup jobs page.

a few seconds ago

🔔 **\$444.64 credit remaining** ▼

Home >

## Restore ...

 Refresh

### Job Details


Activity ID	09872a89-ac55-44a3-9f92-9a289fb340ba-lbz
Backup instance	ltrserver
Operation	Restore
Status	Completed
Start time	9/26/2023, 8:47:59 AM
Duration	00:02:04
User triggered job	true
Policy name	ltr-backup-policy
Data transfered in bytes	55194
Restore point time	9/25/2023, 10:54:51 PM
Restore destination	https://ltrrestorestorageaccount.blob.core.windows.net/ltrcontainer
Restore File Prefix	ltrrestorestorageaccount

### Sub tasks

Name
Trigger Restore

You can open your storage account container to see all your backup files.

Home > ltrrestorestorageaccount | Containers >

 ltrcontainer ...

Container

Upload

Change access level

Refresh

Delete

Change tier

Acquire lease

Break lease

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Create snapshot

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Access policy

Properties





Metadata

Authentication method: Access key ([Switch to Azure AD User Account](#))

Location: ltrcontainer

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type
<input type="checkbox"/>  4d7841e8-2c2a-45f4-ac76-dbf2aed08338_roles.sql	9/26/2023, 8:48:33 AM	Hot (Inferred)		Block blob
<input type="checkbox"/>  4d7841e8-2c2a-45f4-ac76-dbf2aed08338_schema.sql	9/26/2023, 8:48:33 AM	Hot (Inferred)		Block blob
<input type="checkbox"/>  4d7841e8-2c2a-45f4-ac76-dbf2aed08338_tablespace.sql	9/26/2023, 8:48:33 AM	Hot (Inferred)		Block blob
<input type="checkbox"/>  backupstarttimestamp	9/26/2023, 8:48:33 AM	Hot (Inferred)		Block blob