Migrate PostgreSQL Single Server to Flexible Server using Azure portal

Contents

This article shows you how to create a migration from your Azure database for PostgreSQL single server to flexible server using our automated migration service through Azure portal.

Pre-requisites

Make sure to take care of the pre-requisites listed in this document, which are necessary to get started with the automated migration service.

Portal Experience

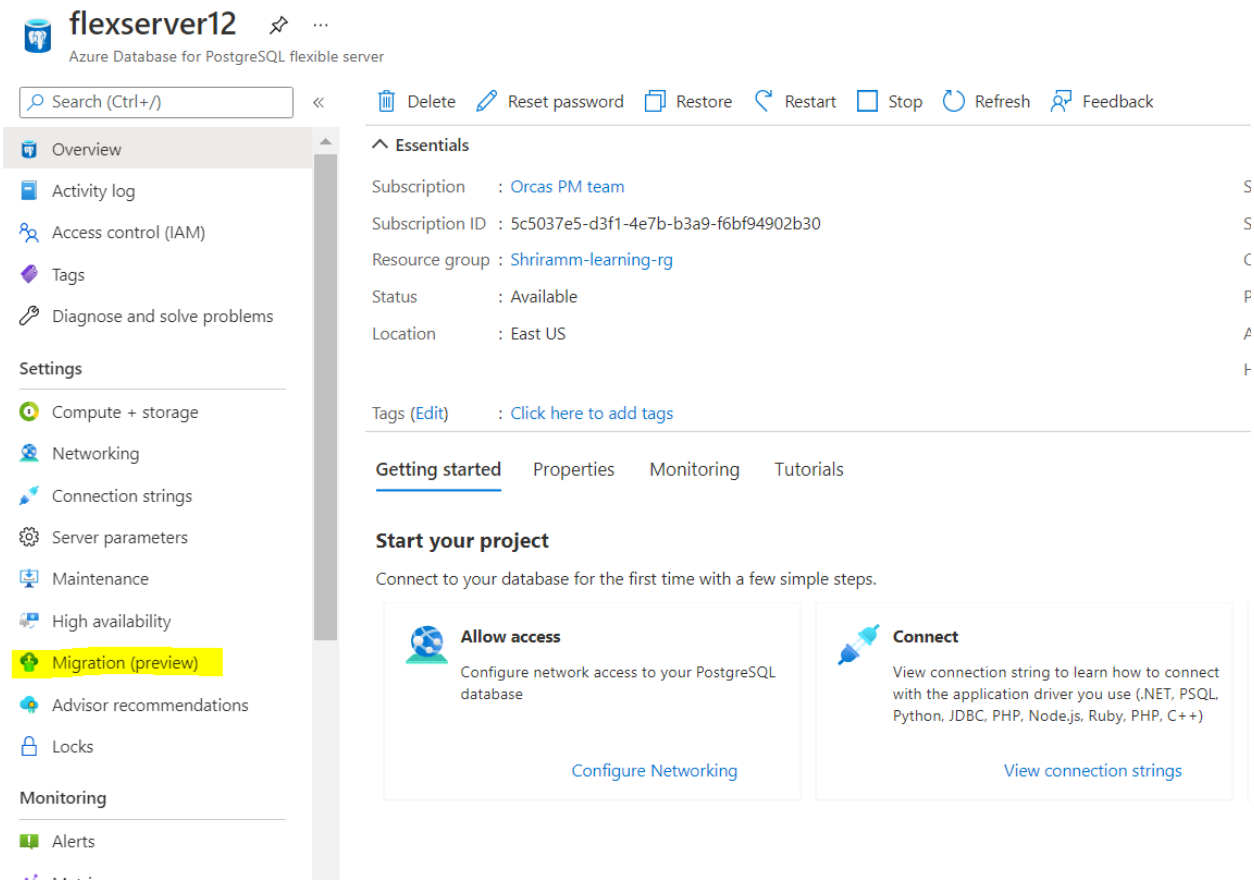
The automated migration service comes with a simple, wizard-based portal experience to create a migration from single server to flexible server.

Sign into the Azure portal

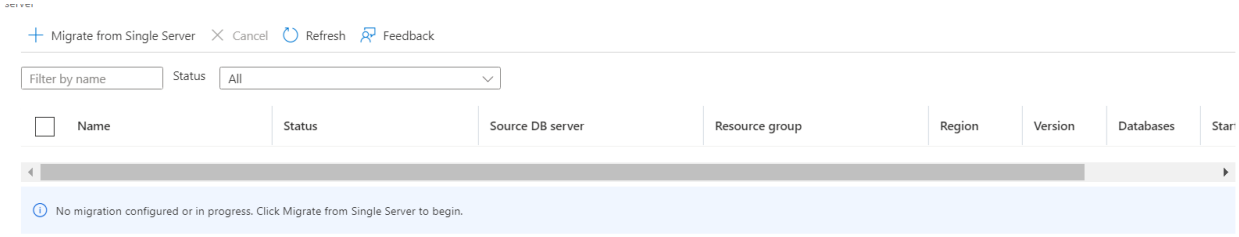
Open your web browser and go to the portal. Enter your credentials to sign into the portal. The default view is your service dashboard. If you don't have an Azure subscription, create a free Azure account

If you haven't created an Azure database for PostgreSQL flexible server, go ahead and create one using this link. Else, find and navigate to your flexible server instance.

Once you are in the **Overview** tab of your flexible server, use the left navigation window and scroll down to the option of **Migration (preview)** and click on it.



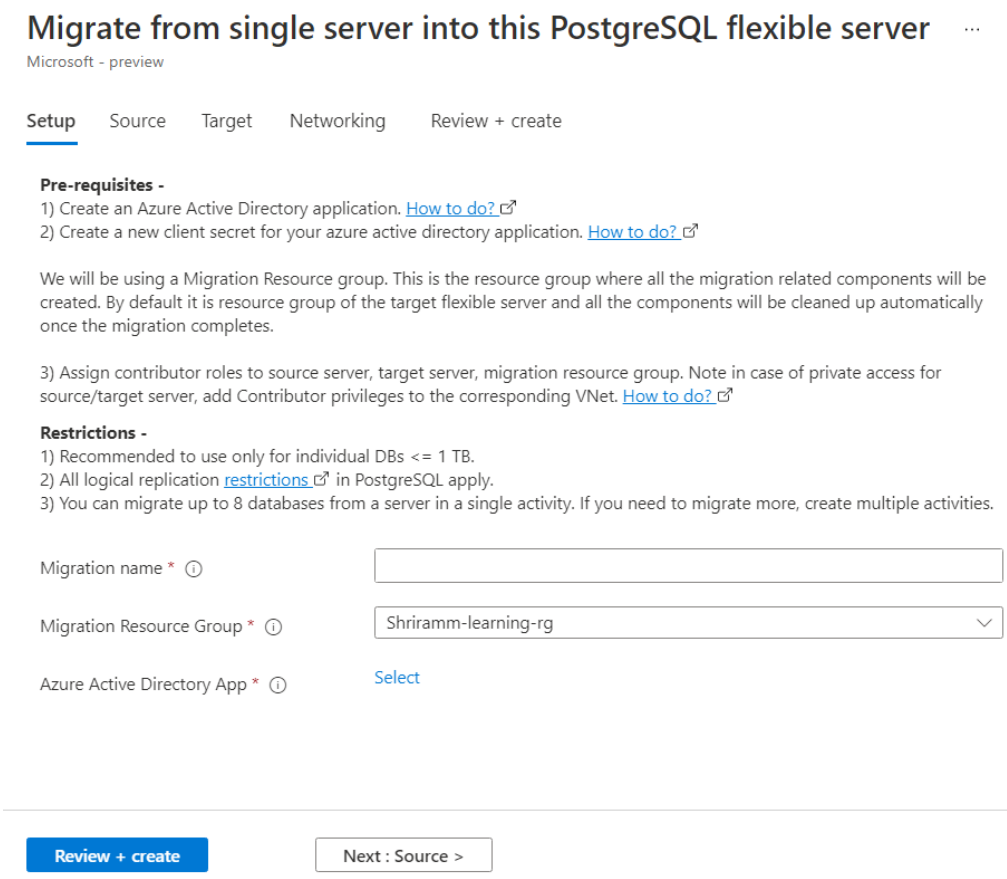
If this is the first time you are using the migration service, you will see an empty grid with a message to click the button **Migrate from Single Server** to start a migration.



If you have already created migrations to your flexible server, you should see the list of migrations that were attempted to this flexible server from single servers.

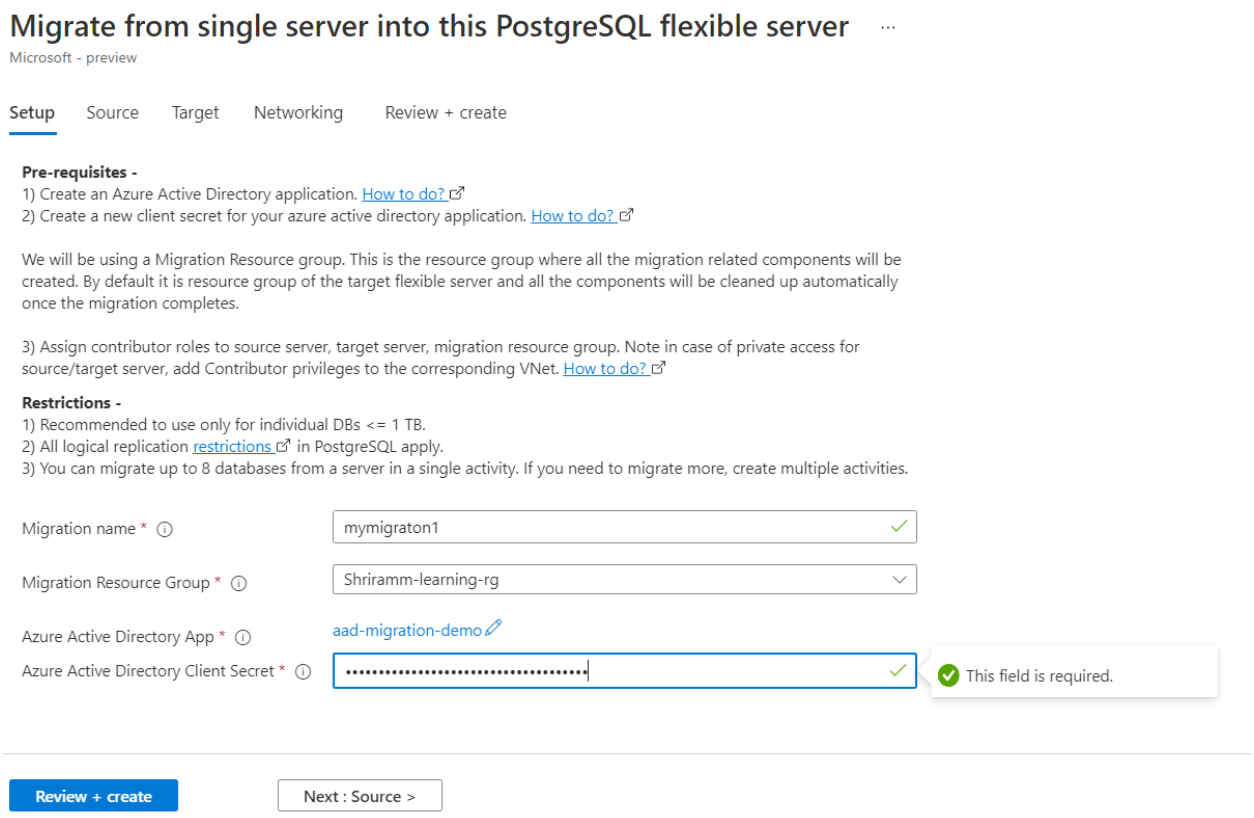
Click on the **Migrate from Single Server** option. You'll be taken through a wizard-based setup to create a migration to this flexible server from any single server.

Setup Tab



There is a **pre-requisites** section, the details of which are documented in detail here. There is also a **restriction** section that lists down the restrictions that are applicable to this migration service

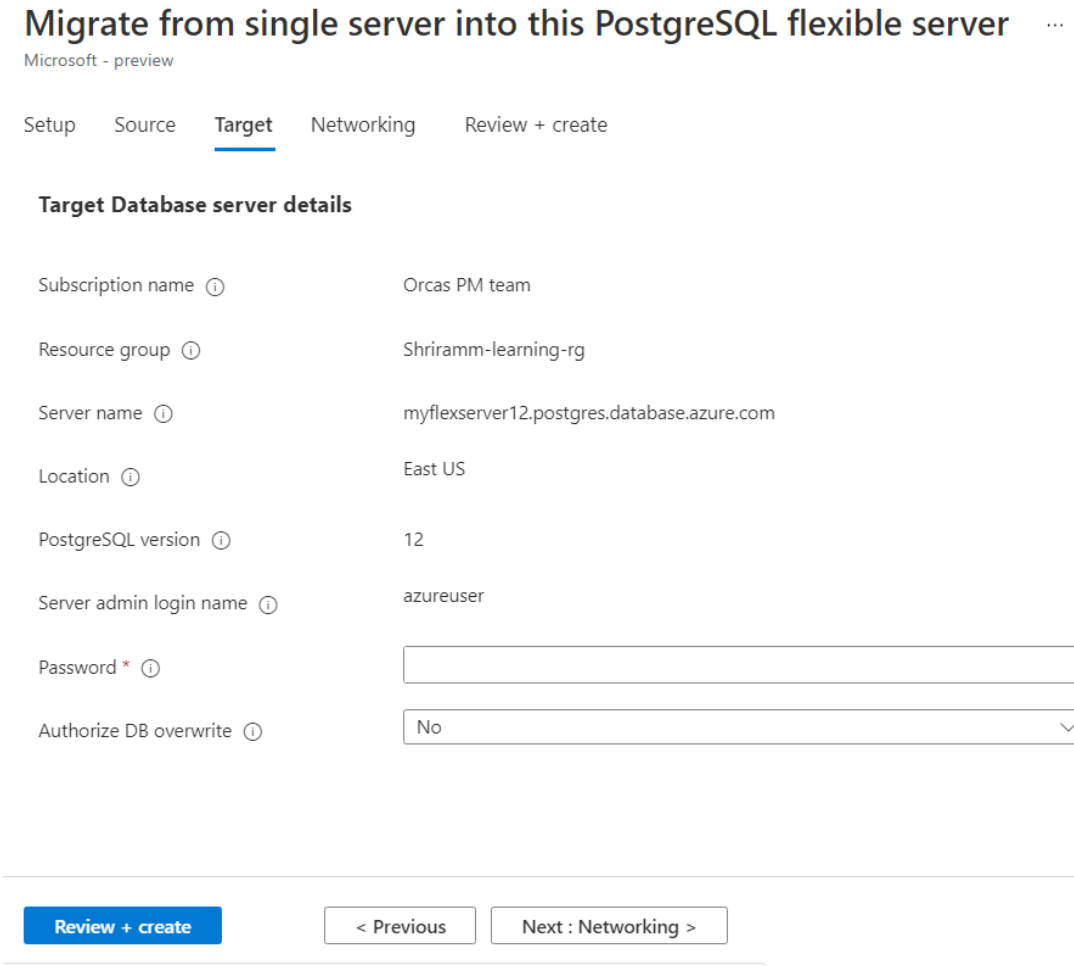
- The **Migration name** field accepts only alphanumeric characters and does not accept any special characters except **'-'**. The name can't start with a **'-'** and should be unique for a target server. No 2 migrations to the same flexible server can have the same name.
- The **Migration resource group** is where all the migration-related components will be created by the migration service. By default, it's resource group of the target flexible server and all the components will be cleaned up automatically once the migration completes. If you want to create a temporary resource group for migration-related purposes, create a resource group and select the same from the dropdown.
- For the **Azure Active Directory App**, click the **select** option and pick the app that was created as a part of the pre-requisite step. Once the AAD App is chosen, paste the client secret that was generated for the AAD app to the **Azure Active Directory Client Secret** field.



Click on the **Next** button.

Source tab

Target tab



This tab displays metadata of the flexible server like the **Subscription**, **Resource Group**, **Server name**, **Location**, and **PostgreSQL version**. It displays **server admin login name** which is the username that was used during the creation of the flexible server.

Enter the corresponding password for the admin user.

Choose an option **yes/no** for **Authorize DB overwrite**. If you set the option to **Yes**, you give this migration service permission to overwrite existing data in case when a database that is being migrated to flexible server is already present. If set to **No**, it goes into a waiting state and asks you for permission either to overwrite the data or to cancel the migration.

Click on the **Next** button

Networking tab

Review + Create tab

Post Migration

- Note that all the resources created by this migration solution will be automatically cleaned up irrespective of whether the migration has **succeeded/failed/cancelled**. There is no action required from your end.
- If your migration has failed and if you want to retry the migration, then you need to create a new migration with a different name and try running it again. For now, there is no option of retry on a failed migration.
- If you have more than eight databases on your single server and want to migrate all of them, it is recommended to create multiple migrations between the same single server and flexible server with each migration migrating a set of eight databases each.
- For security reasons, it is highly recommended to delete the Azure Active Directory app once the migration completes.
- Post data validations and making your application point to flexible server, you can consider deleting your single server.