# 😊 Azure SQL – Geo-restore from Backup

**Geo-restore backup** in Azure SQL Database is a disaster recovery feature that lets you restore a database from a backup stored in a different Azure region. Azure automatically creates geo-redundant backups by copying your database backups to a paired region.

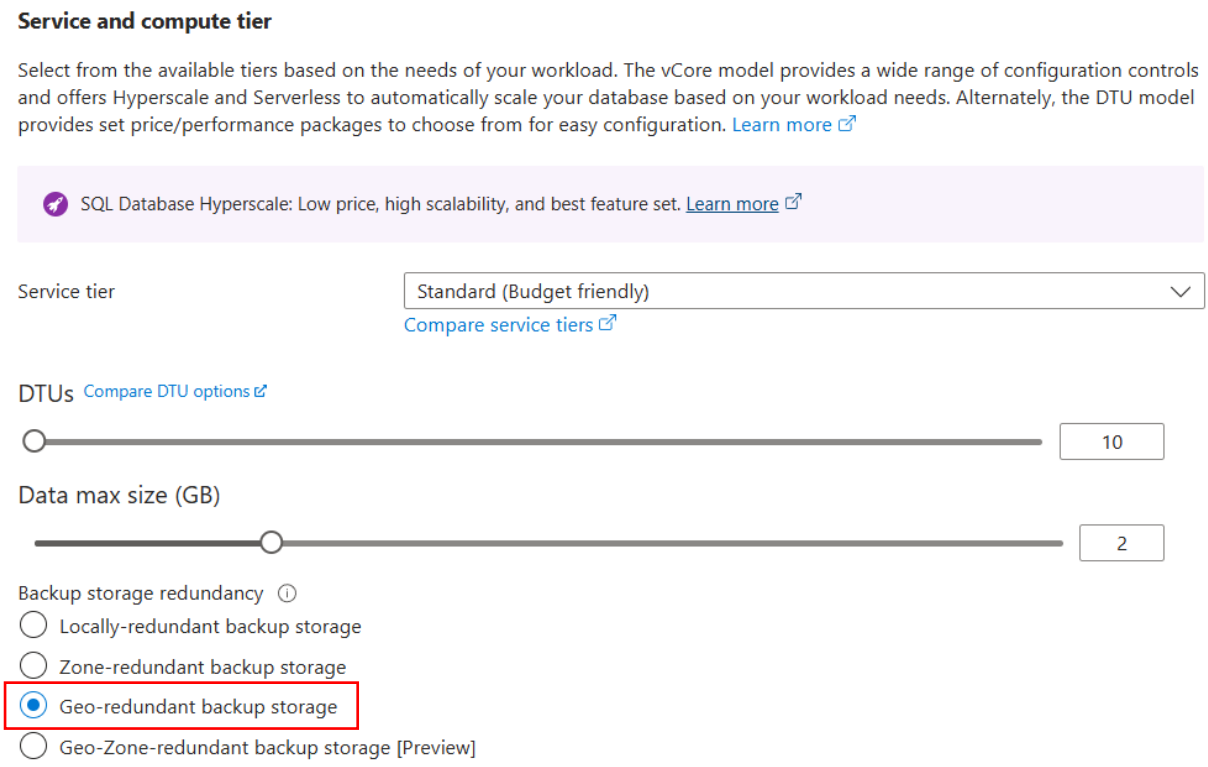
If your primary region goes down due to an outage or failure, you can use geo-restore to recover your database in another region with minimal data loss (up to the last backup, typically within 1 hour).

**Key Benefits:**

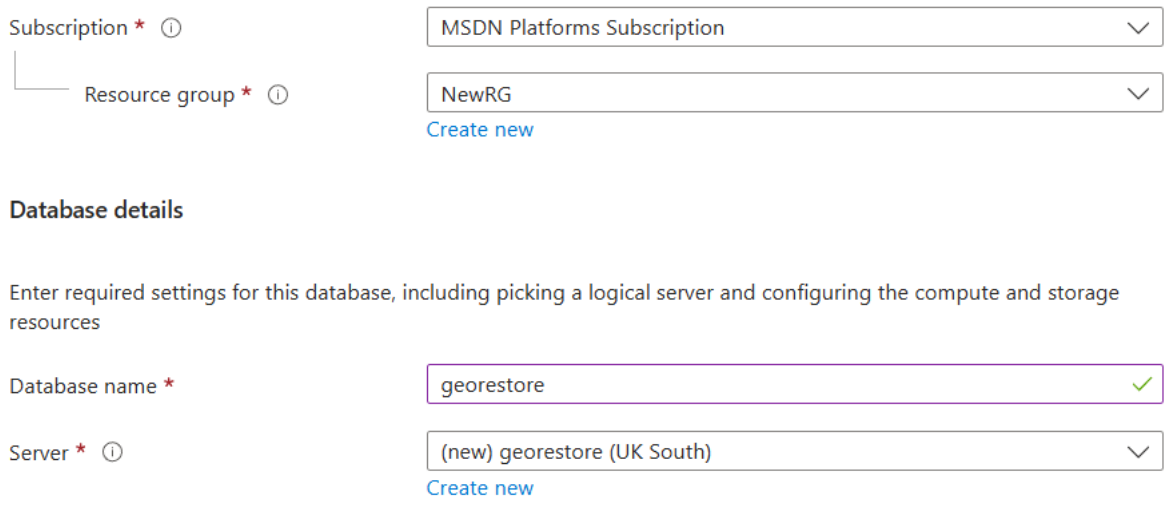
- **Disaster Recovery:** Protect against regional outages.
- **Global Resilience:** Quickly restore services in another region.
- **Cost-Effective:** Included with geo-redundant backup storage.

## 😄 To begin with the Lab

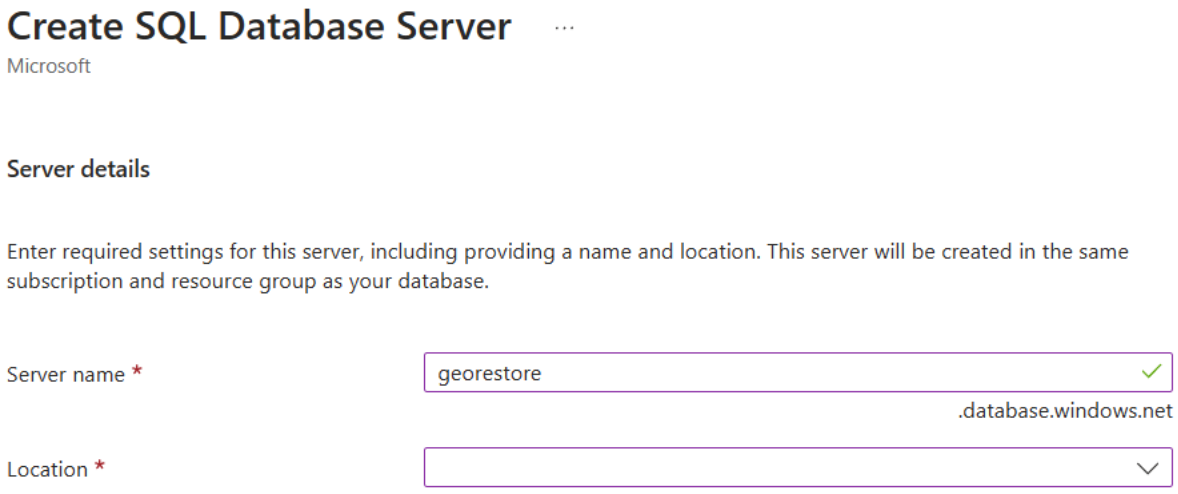
1. In this lab we will perform a geo-restore using the backup in our SQL Database. But first, we need to change the current redundancy of our database into Geo-redundant.



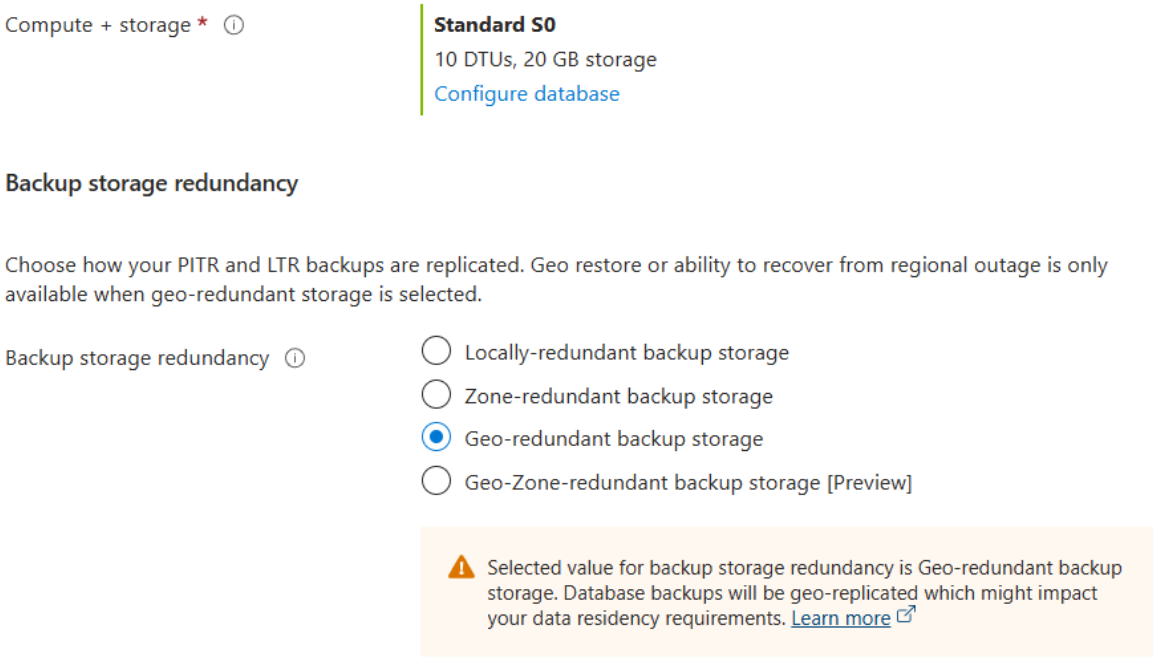

2. So, open the Portal and go to the creation page for the SQL database. Choose your resource group and give a name to your database then create a new server.



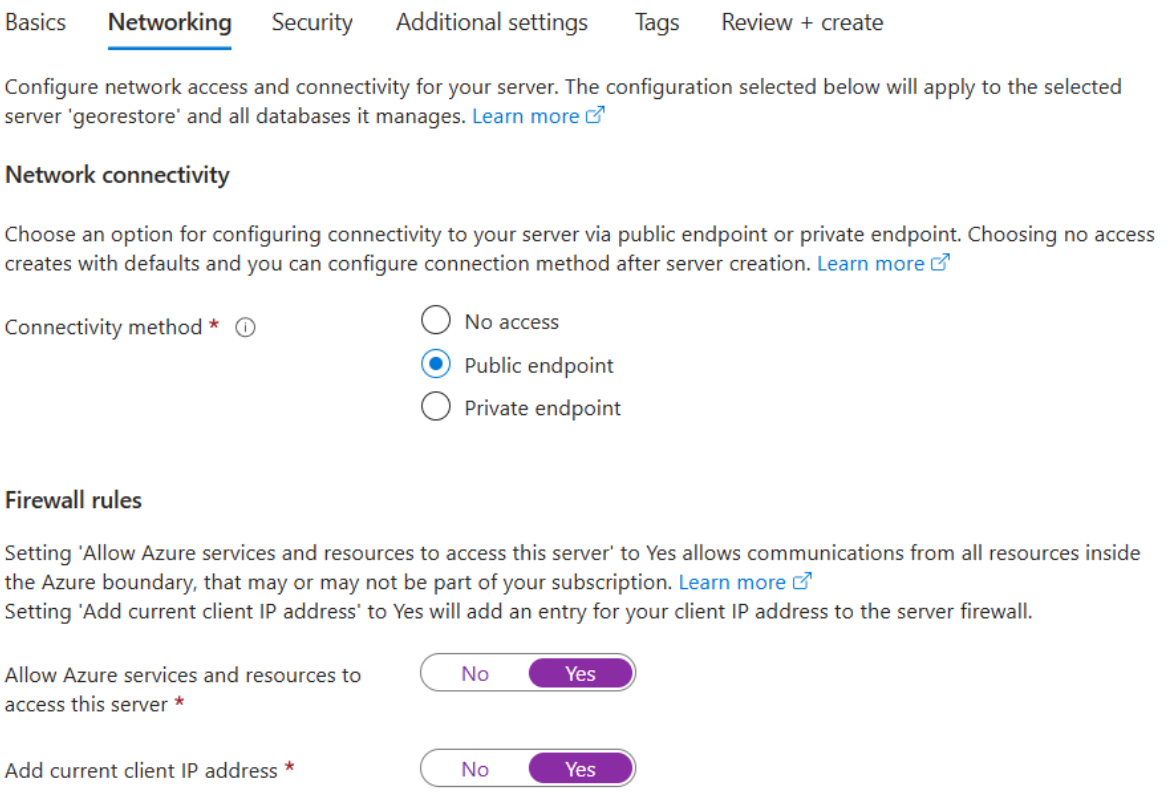

3. Give a name to your Server and choose location as West Europe then choose SQL Authentication and give username and password to your Server.



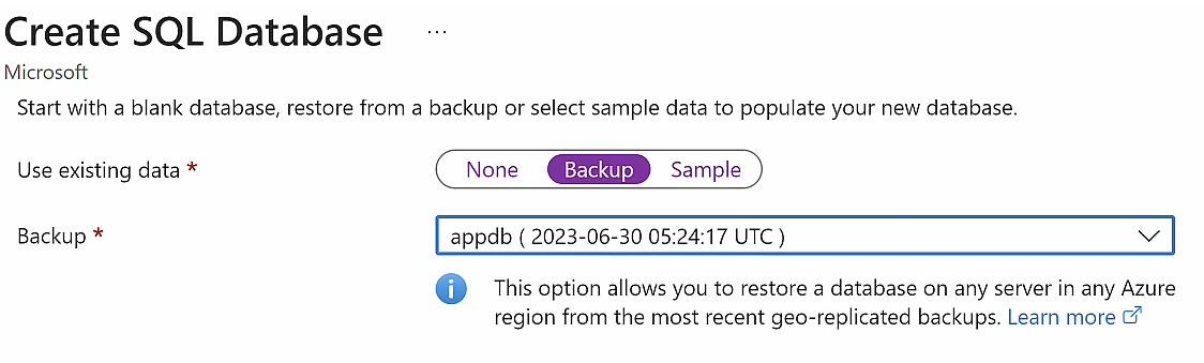

4. Then for the compute and storage capacity choose Standard as shown below. Also, choose Geo Redundancy backup storage.




5. Then in the networking choose the same option as shown below to make your database public.




6. On the additional settings page you need to choose backup and here you will see that we have a backup ready




7. Then just create your database. Also, remember it will take time to create a backup in a new location.
8. It might take around 8-10 hours for it to be replicated totally. But once it is created then you can have the database with the tables.