Module 8 - Lab 2: Add an Azure SQL Database to an autofailover group

A failover group is a declarative abstraction layer that allows you to group multiple geo-replicated databases. Learn to configure a failover group for an Azure SQL Database and test failover using the Azure portal. In this lab, you'll learn how to:

- Create your failover group and add your database to it using the Azure portal.

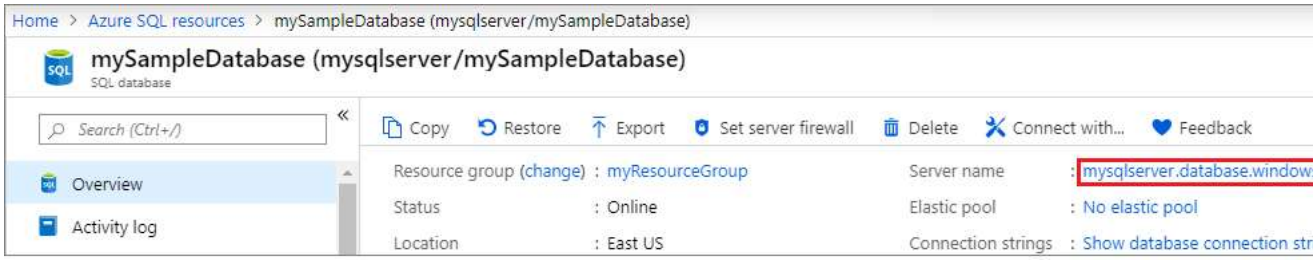
Task 1: Create your failover group and add your database to it using the Azure portal.

- [ ] 1. Select **Azure SQL** in the left-hand menu of the Azure portal. If **Azure SQL** isn't in the list, select **All services**, then type Azure SQL in the search box.

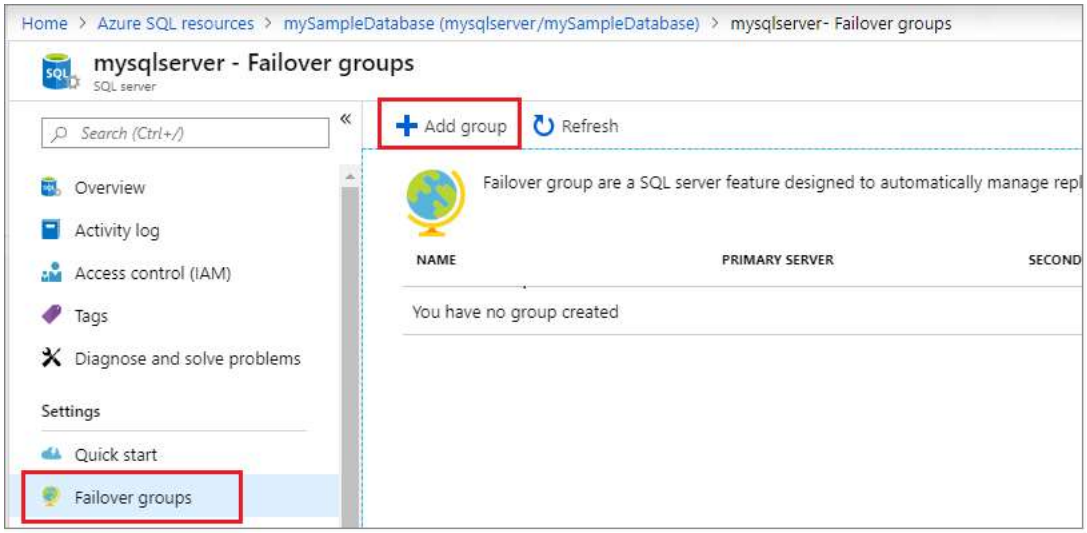
  (**Optional**) Select the star next to **Azure SQL** to favorite it and add it as an item in the left-hand navigation.

- [ ] 2. Select the database created in lab 1, such as **mySampleDatabase**.

- [ ] 3. Failover groups can be configured at the server level. Select the name of the server under **Server name** to open the settings for the server.



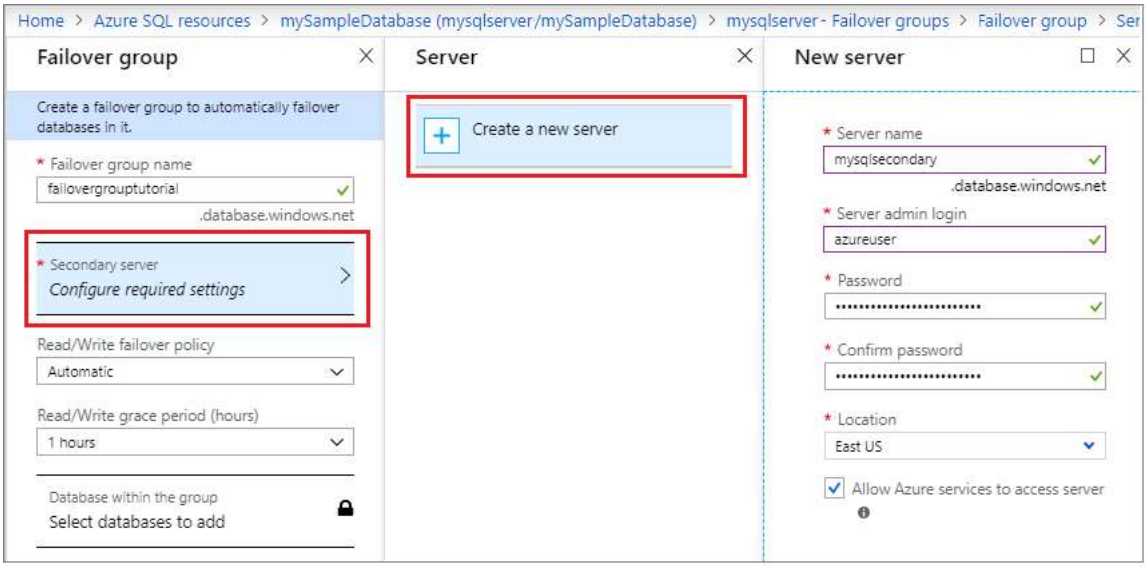
- [ ] 4. Select **Failover groups** under the **Data Management** pane, and then select **Add group** to create a new failover group.



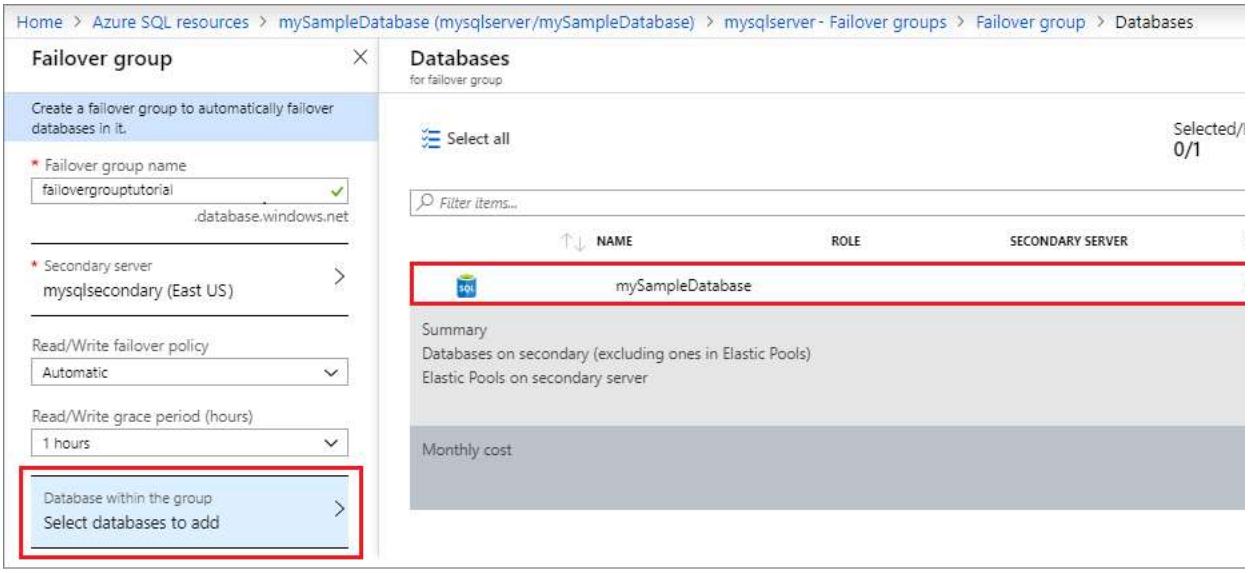
- [ ] 5. On the **Failover Group** page, enter or select the following values, and then select **Create**:

  - **Failover group name**: Type in a unique failover group name, such as **failovergrouptutorial**.
  - **Secondary server**: Select the option to ***configure required settings*** and then choose to **Create a new server**. Alternatively, you can choose an already-existing server as the secondary server. After entering the following values, select **Select**.
    - **Server name**: Type in a unique name for the secondary server, such as mysqlsecondary.
    - **Server admin login**: Type azureuser
    - **Password**: Enter lZuoYRaJKO6XPNRo
    - **Location**: **West US**. This location can't be the same location as your primary server.

      Note: The server login and firewall settings must match that of your primary server.



- **Databases within the group**: Once a secondary server is selected, this option becomes unlocked. Select it to **Select databases to add** and then choose the database you created in section 1. Adding the database to the failover group will automatically start the geo-replication process.



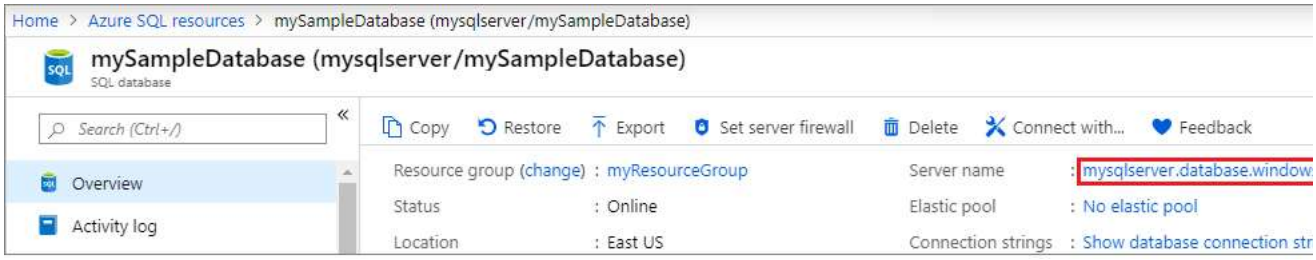
Task 2: Test failover using the Azure portal.

In this task, you'll fail your failover group over to the secondary server, and then fail back using the Azure portal.

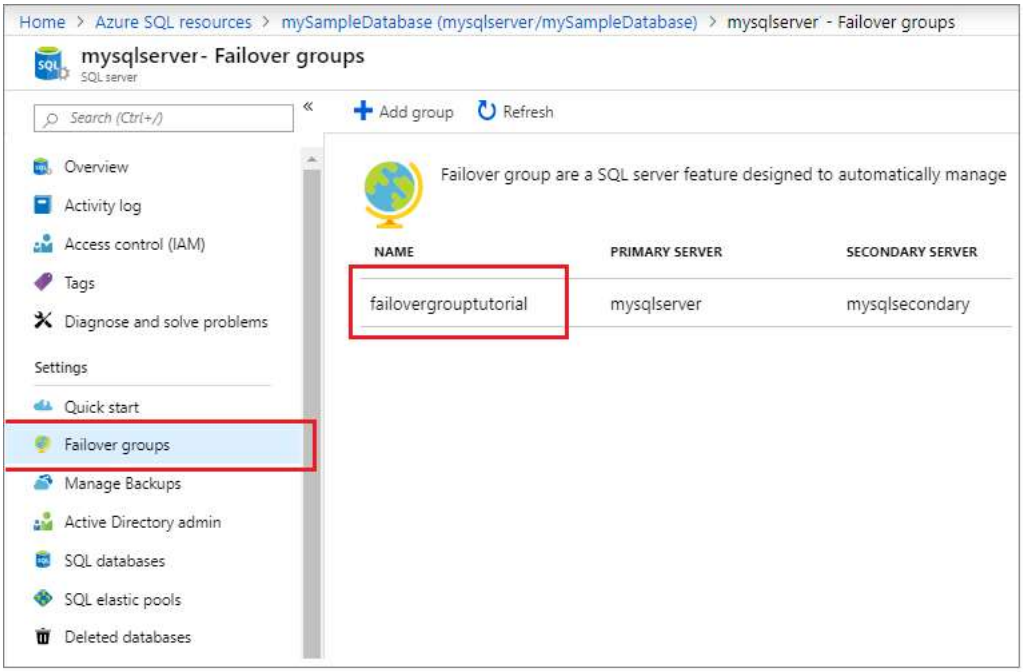
- [ ] 1. Select **Azure SQL** in the left-hand menu of the Azure portal. If **Azure SQL** isn't in the list, select **All services**, then type Azure SQL in the search box. (Optional) Select the star next to **Azure SQL** to favorite it and add it as an item in the left-hand navigation.

- [ ] 2. Select the database created in task 1, such as **mySampleDatbase**.

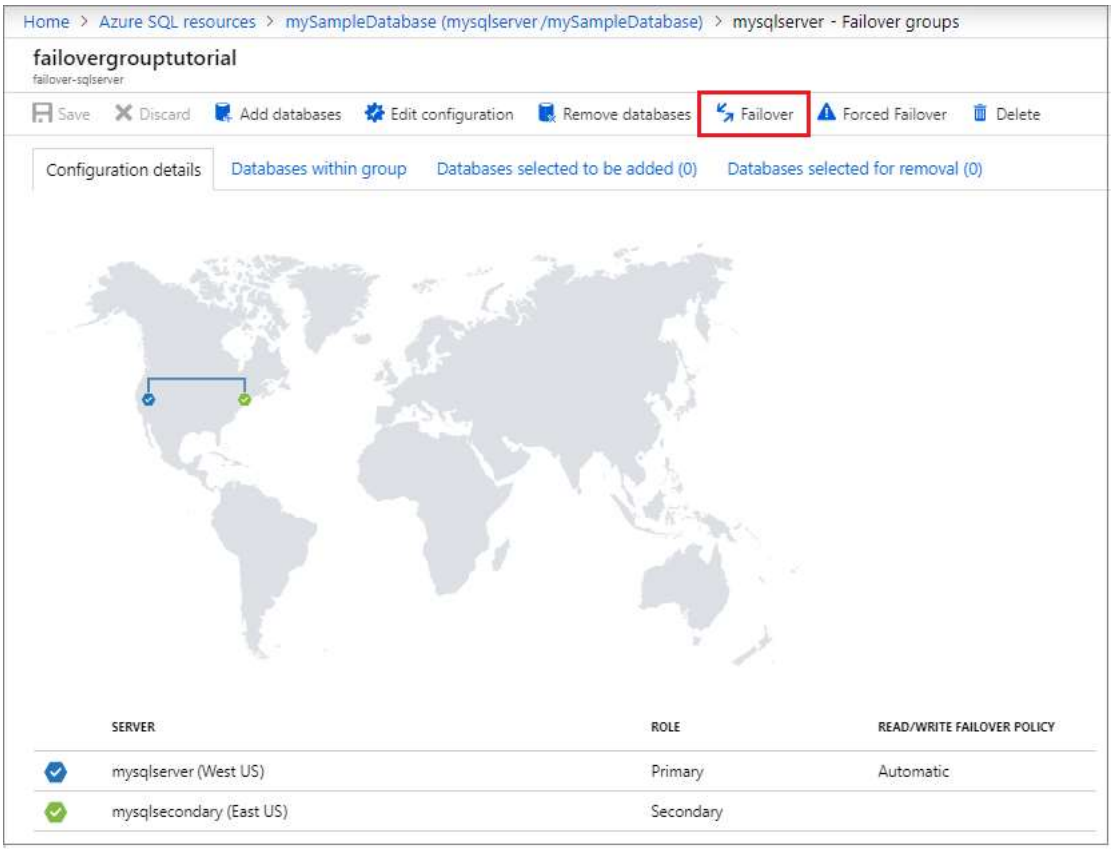
- [ ] 3. Select the name of the server under **Server name** to open the settings for the server.



- [ ] 4. Select **Failover groups** under the **Settings** pane and then choose the failover group you created in section 2.



- [ ] 5. Review which server is primary and which server is secondary.
- [ ] 6. Select **Failover** from the task pane to fail over your failover group containing your sample database.
- [ ] 7. Select **Yes** on the warning that notifies you that TDS sessions will be disconnected.



- [ ] 8. Review which server is now primary and which server is secondary. If failover succeeded, the two servers should have swapped roles.
- [ ] 9. Select **Failover** again to fail the servers back to their original roles.

✓ **Congratulations!**

In this lab, you added a database in Azure SQL Database to a failover group, and tested failover. You learned how to:

- Create a database in Azure SQL Database
- Create a failover group for the database between two servers.

- Test failover.