DAT243x

Securing SQL Server

Lab 01 | Authenticating Users

Estimated time to complete this lab is 30 minutes

Overview

In this lab, you are preparing to install SQL Server 2016 for the IT department in Adventure Works Cycles. Before installing, you want to find out if the server hardware provisioned for the instance is ready.

The labs in this course are accumulative. You cannot complete the following labs if this lab has not been successfully completed.

What You'll Need

To complete this lab, you will need the following:

- High-speed and reliable internet connectivity (for remote connections to the VM)
- A second monitor is recommended (for the Remote Desktop connection)
- A Microsoft account (such as one used for outlook.com, Hotmail, or other Microsoft services)
- A Microsoft Azure subscription
- To have completed the previous labs in this course.

Exercise 1: Create a SQL Server Login

In this exercise, you will verify the SQL Server authentication mode and create a SQL Server login.

Create a Login Based on SQL Server Authentication

In this task, you will create a SQL Server login.

1. Start SQL Operations Studio, and connect to your database engine using SQL Server authentication.

2. In SQL Operations Studio, on the toolbar, click **New Query**.

3. In the query window, type the following Transact-SQL statement:

   ```
   USE Master;
   GO
   CREATE LOGIN [ITSupport] WITH PASSWORD=N'Pa$$w0rd',
   DEFAULT_DATABASE=[AdventureWorks2016], CHECK_EXPIRATION=OFF,
   CHECK_POLICY=OFF
   GO
   ```

4. Click **Run**.

5. In Servers panel, under **Security**, right-click **Logins**, then click **Refresh**, verify that the **ITSupport** user appears.

You have now completed the lab.

If you are not immediately continuing with the next lab, you should complete the ***Finishing Up*** *exercise to shut down and stop the VM.*

Finishing Up

In this exercise, you will shut down and stop the VMs.

1. Deallocate the Linux VM by clicking **Stop**.

   Deallocation will take some minutes to complete, and also extends the time required to restart the VM. Consider deallocating the VM if you want to reduce costs, or if you choose to complete the next lab after an extended period.
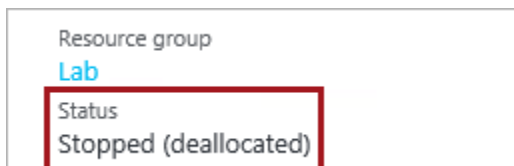

2. When prompted to stop the VM, click **Yes**.
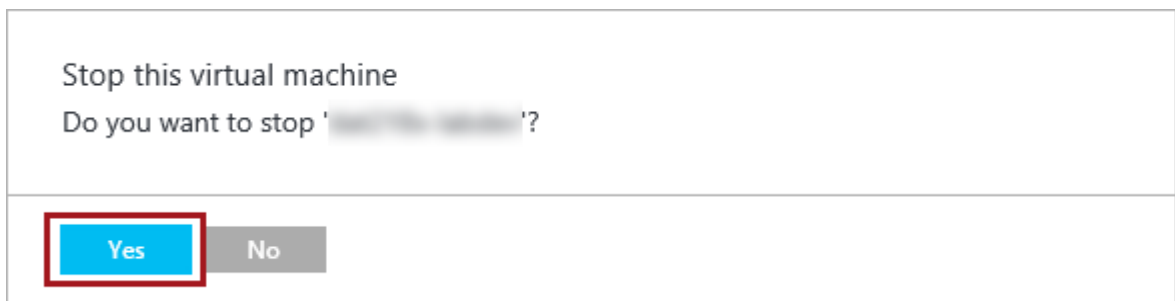
   The deallocation can take several minutes to complete.

3. Verify that the VM status updates to **Stopped (Deallocated)**.

   In this state, the VM is now not billable—except for a relatively smaller storage cost.

   Note that a deallocated VM will likely acquire a different IP address the next time it is started.

4. Sign out of the **Azure Portal**.