

Output and Screenshots

Create a SQL Database

Azure services



Give the required details

Create SQL Database

Microsoft

Basics Networking Security Additional settings Tags Review + create

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	<input type="text" value="Simplilearn HOL 100500"/>
Resource group *	<input type="text" value="ODL-azure-1105040"/>

[Create new](#)

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name *	<input type="text" value="BlogTrackerDb"/>
Server *	<input type="text" value="(new) newsqlserver3058 (East US)"/>

[Create new](#)

Want to use SQL elastic pool? ☐ Yes ☒ No

Workload environment ☒ Development ☐ Production

i Default settings provided for Development workloads. Configurations can be modified as needed.

Compute + storage *

Basic

Review + create

Next : Networking >

Choose the tier

Configure ...

 Feedback

Service and compute tier

Select from the available tiers based on the needs of your workload. The vCore model provides a wide range of configuration controls and offers Hyperscale and Serverless to automatically scale your database based on your workload needs. Alternately, the DTU model provides set price/performance packages to choose from for easy configuration. [Learn more](#)

Service tier Basic (For less demanding workloads) ▾
[Compare service tiers](#)

DTUs [Compare DTU options](#)

5 (Basic)

Data max size (GB)

2



Cost summary

Basic (Basic)

Cost per DTU (in --)

--

DTUs selected

x 5

ESTIMATED COST / MONTH

-- --

PLEASE CONTACT YOUR RESELLER

Apply

Want to use SQL elastic pool? ⓘ

☐ Yes ☒ No

Workload environment

☒ Development
☐ Production



Default settings provided for Development workloads. Configurations can be modified as needed.

Compute + storage * ⓘ

Basic

2 GB storage

[Configure database](#)

Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy ⓘ

☒ Locally-redundant backup storage
☐ Zone-redundant backup storage
☐ Geo-redundant backup storage

Review + create

Next : Networking >

Click Create

Create SQL Database ...

Microsoft

Basics Networking Security Additional settings Tags Review + create

Product details

SQL database
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Estimated cost per month

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#). ↗

Basics

Subscription	Simplilearn HOL 100500
Resource group	ODL-azure-1105040
Region	East US
Database name	BlogTrackerDb
Server	(new) newsqserver3058
Authentication method	SQL authentication
Server admin login	admin123
Compute + storage	Basic: 2 GB storage
Backup storage redundancy	Locally-redundant backup storage

Networking

Allow Azure services and resources to access this server	No
Private endpoint	None
Minimum TLS version	1.2

Create

< Previous

[Download a template for automation](#)

Deployment complete

Home >

 **Microsoft.SQLDatabase.newDatabaseNewServer_225c0b90020a4279b013f** | Overview ⚙ ...

Deployment

Search « Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_225c0b90020a4279b013f
Subscription : Simplilearn HOL 100500
Resource group : ODL-azure-1105040

Start time : 9/26/2023, 10:13:44 AM
Correlation ID : 6c2c8709-0645-4303-a55e-8ca3c8829b59

> Deployment details

✓ Next steps

Go to resource

Set firewall

Public access Private access Connectivity

Public network access

Public Endpoints allow access to this resource through the internet using a public IP address. An application or resource that is granted access with the following Public network access

☐ Disable

☒ Selected networks

Connections from the IP addresses configured in the Firewall rules section below will have access to this database. By d

Please save public network access value before adding new virtual networks.

Virtual networks

Allow virtual networks to connect to your resource using service endpoints. [Learn more](#)

+ Add a virtual network rule

Rule	Virtual network	Subnet	Address range	Endpoint status	Resource group	Subscription	State
------	-----------------	--------	---------------	-----------------	----------------	--------------	-------

Firewall rules

Allow certain public internet IP addresses to access your resource. [Learn more](#)

+ Add your client IPv4 address (49.37.217.234) + Add a firewall rule

Rule name	Start IPv4 address	End IPv4 address	
ClientIPAddress_2023-9-26_10-17-20	49.37.217.0	49.37.217.234	

Exceptions

☒ Allow Azure services and resources to access this server ⓘ

Save

Discard

Use the SQL authentication credentials

Query editor (preview) is a tool to run SQL queries against Azure SQL Database in the Azure portal. It is designed for lightweight querying and object exploration in your database. For more information and troubleshooting, [Learn more](#)



Welcome to SQL Database Query Editor

SQL server authentication

Login *

admin123

Password *

OK

Microsoft Entra authentication

Continue as odl_user_1105040@simplice...

OR

Query Window

BlogTrackerDb (admin123)

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

- Tables
- Views
- Stored Procedures

Query 1

Run Cancel query Save query Export data as Show only Editor

1

Results Messages

Search to filter items...

As I created the table already in SQL Server I used the same query to create this

BlogTrackerDb (admin123)

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

- Tables
 - dbo.AdminInfo
 - dbo.BlogInfo
 - dbo.EmpInfo
- Views
- Stored Procedures

Query 1

Run Cancel query Save query Export data as Show only Editor

```
1 CREATE TABLE [dbo].[BlogInfo](
2     [BlogInfoId] [int] IDENTITY(1,1) NOT NULL,
3     [Title] [nvarchar](50) NOT NULL,
4     [Subject] [nvarchar](50) NOT NULL,
5     [DateOfCreation] [datetime2](7) NOT NULL,
6     [BlogUrl] [nvarchar](max) NOT NULL,
7     [EmpEmailId] [nvarchar](max) NOT NULL,
8     CONSTRAINT [PK_BlogInfo] PRIMARY KEY CLUSTERED
9     (
10         [BlogInfoId] ASC
11     )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY
12     ) ON [PRIMARY] TEXTIMAGE_ON [PRIMARY]
13
14 CREATE TABLE [dbo].[AdminInfo](
```

Connection string

BlogTrackerDb (newsqserver3058/BlogTrackerDb) | Connection strings

ADO.NET JDBC ODBC PHP Go

ADO.NET (Microsoft Entra passwordless authentication)

Microsoft.Data.SqlClient Quickstart
Entity Framework Core Quickstart

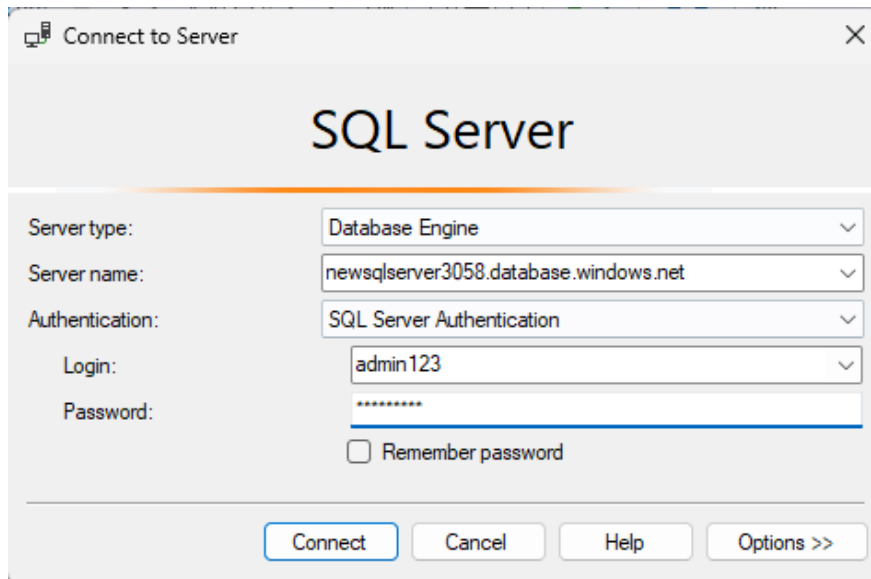
```
Server=tcp:newsqserver3058.database.windows.net,1433;Initial Catalog=BlogTrackerDb;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;Authentication=Active Directory Default;
```

ADO.NET (SQL authentication)

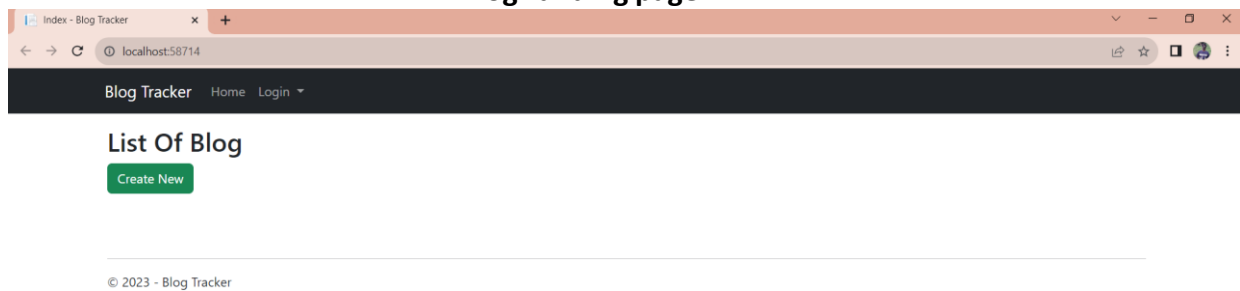
```
Server=tcp:newsqserver3058.database.windows.net,1433;Initial Catalog=BlogTrackerDb;Persist Security Info=False;User ID=admin123;Password={your_password};MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;
```

Download ADO.NET driver for SQL server

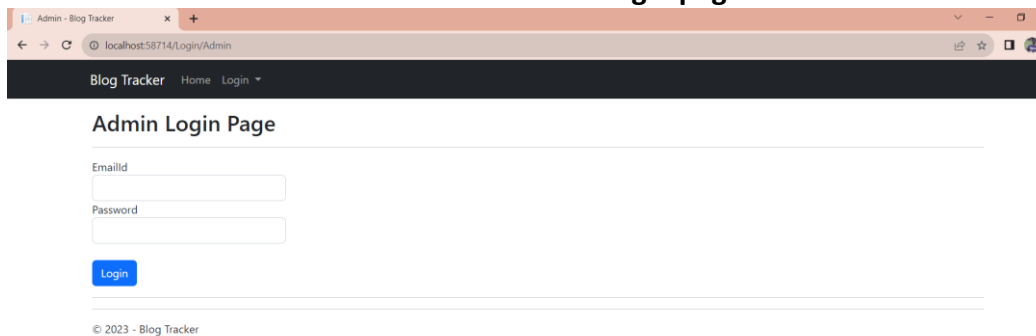
Connect the server name in the Azure SQL database



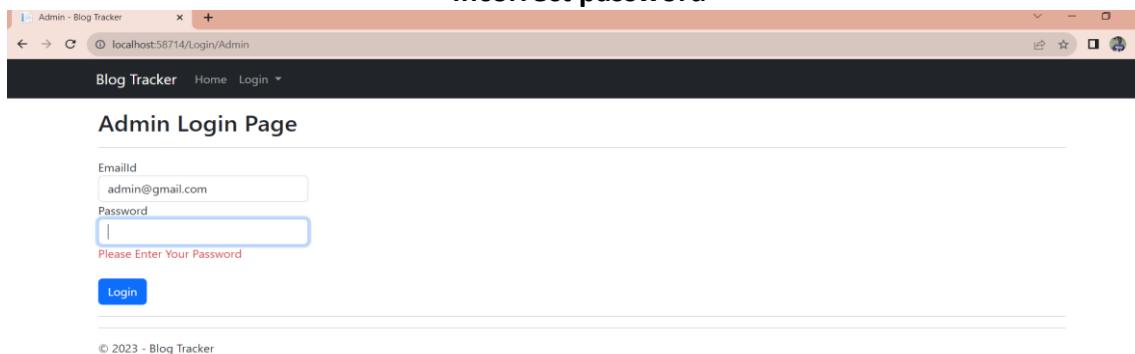
Blog Landing page



Admin Login page



Incorrect password



Employee Login

Employee - Blog Tracker x +

localhost:58714/Login/Employee

Blog Tracker Home Login ▾

Employee Login Page

EmailId

Password

Login

© 2023 - Blog Tracker

Wrong Password

Employee - Blog Tracker x +

localhost:58714/Login/Employee

Blog Tracker Home Login ▾

Employee Login Page

EmailId

Password

Please Enter Your Password

Login

© 2023 - Blog Tracker

Adding new Blog

← → ↺ ⓘ localhost:5072/BlogInfoes/Create

BlogTracker Home Admin Login Employee Login

Create BlogInfo

Title

Subject

DateOfCreation

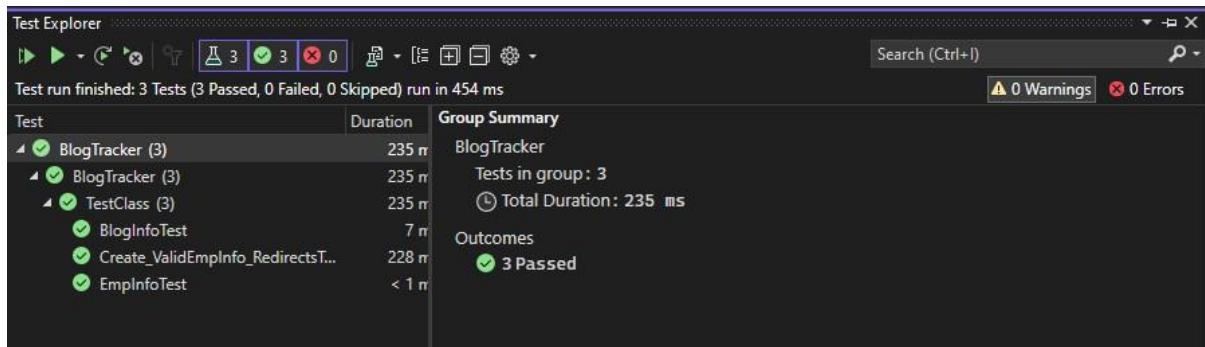
BlogUrl

EmpEmailId

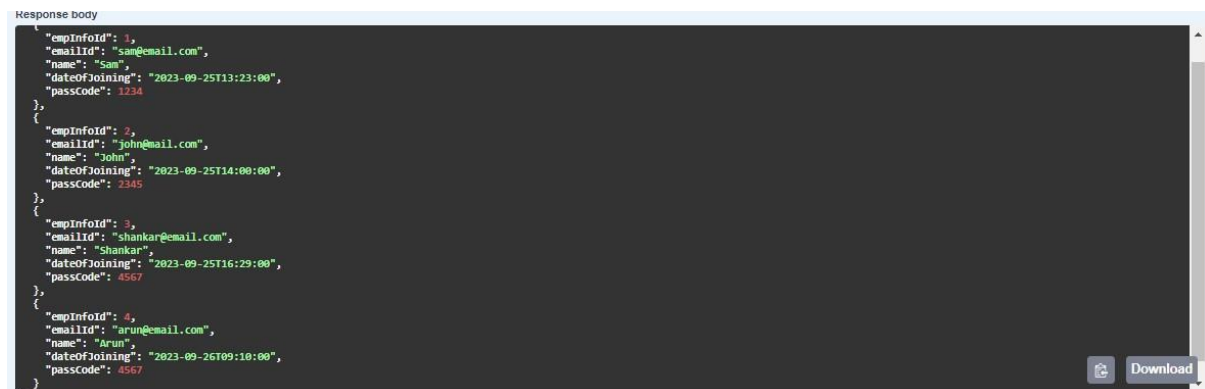
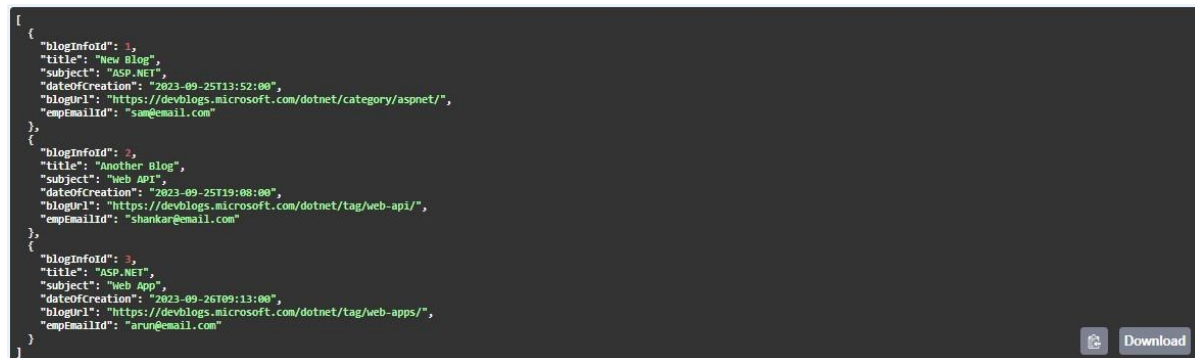
Create

[Back to List](#)

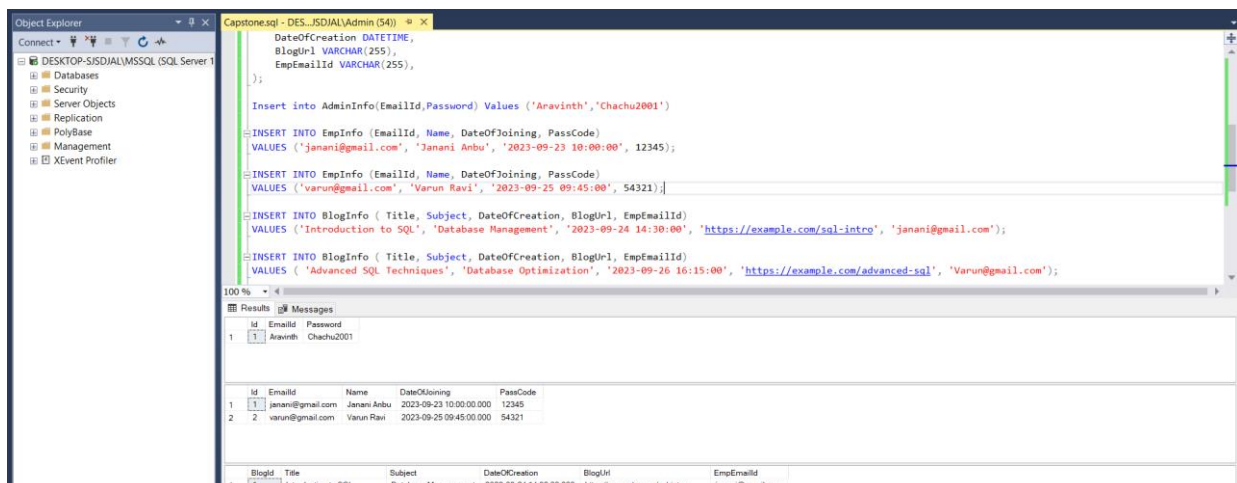
Test case passed








In the API after changing some values



In SQL server after connected with Azure SQL Database



Docker running

 AppServiceLayer 8a413bb77227 	appservicelayer.dev	Running	0% 32768.80 	2 hours ago	  
 BlogTracker c59077f2d37b 	blogtracker.dev	Running	0% 32769.80 	2 hours ago	 