

Step1 Create Resource Group

Wednesday, February 22, 2023

2:32 PM

1 Enter Resource group name **ExploreandLearnRGDev**

2 Select the region closer to your physical location to get better performance

Skip Intermediate options

3 Add a tag for identification DEVRG

← → ↻ portal.azure.com/#create/Microsoft.ResourceGroup

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Microsoft Azure Upgrade Search resources, services, and docs (G+

Show portal menu [Help](#) >

Create a resource group ...

✓ Validation passed.

Basics Tags Review + create

Basics

Subscription	Azure subscription 1
Resource group	ExploreandLearnRGDev
Region	West Europe

Tags

DEVRG	DEVRG
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Step2 Create Storage Account

Wednesday, February 22, 2023

2:32 PM

1. Click on create storage account and provide name exploreandlearnsdev
2. Select Resource group name **ExploreandLearnRGDev**
3. Select the region closer to your physical location to get better performance
4. Redundancy - For demo purpose select local option , cost efficient
5. Select the check box for **Data Lake Storage Gen2**. It will provide access to ADLS
6. Access tier - select cool for demo purpose
7. Data protection - keep retention period of 20 days for all options
8. Skip intermediate options
9. Add a tag DEVSG

Microsoft Azure

Upgrade

Search resources, services, and...

[Home](#) > [Storage accounts](#) >

Create a storage account

BasicsAdvancedNetworkingData protectionEncryptionTagsReview

Basics

Subscription	Azure subscription 1
Resource Group	ExploreandLearnRGDev
Location	switzerlandnorth
Storage account name	exploreandlearnsdev
Deployment model	Resource manager
Performance	Standard
Replication	Locally-redundant storage (LRS)

Advanced

Secure transfer	Enabled
Allow storage account key access	Enabled
Allow cross-tenant replication	Disabled
Default to Azure Active Directory authorization in the Azure portal	Disabled
Blob public access	Enabled
Minimum TLS version	Version 1.2
Permitted scope for copy operations (preview)	From any storage account
Enable hierarchical namespace	Enabled
Enable network file system v3	Disabled
Access tier	Cool
Enable SFTP	Disabled
Large file shares	Disabled

Create

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Step3 Create storage containers

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1. Navigate to Storage **exploreandlearnsgdev**
2. Click on container option on left side and add below 2 containers

portal.azure.com/#@swapnilshimpi2011gmail.onmicrosoft.com/resource/subscriptions/a103ef03-ee85-4d9a-a268-1c2d48199545/resource

Explore Austria Guitar Song Visa STUDY (11) Goodly - YouT... Microsoft | 30 Days... ss61933 (Swapnil S...

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Home > exploreandlearnsgdev

exploreandlearnsgdev | Containers Storage account

Search

+ Container Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix

Name	Last modified
<input type="checkbox"/> \$logs	2/22/2023, 2:54:21 PM
<input type="checkbox"/> devcontainer	2/22/2023, 3:39:05 PM
<input type="checkbox"/> uatcontainer	2/22/2023, 3:39:15 PM

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Access keys

Shared access signature

Theory - storage can be of Blob type or ADLS type
Blob will not have sub directory

Step4 Manage access to Container

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1. Select storage ->container->Access control (IAM)-> Role Owner ->
2. Select the member from left menu. (we can grant a role to groups also if present)

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, an 'Upgrade' button, and a search bar. The breadcrumb trail indicates the path: Home > exploreandlearnsgdev | Containers > devlanding | Access Control (IAM) >. The main heading is 'Add role assignment'. Below this, there are tabs for 'Role', 'Members', and 'Review + assign'. The 'Members' tab is currently selected. On the left, under 'Selected role', 'Owner' is chosen. Under 'Assign access to', 'User, group, or service principal' is selected. The 'Members' section shows a table with columns 'Name', 'Object ID', and 'Type'. Below this table is a 'Description' field with the text 'Optional'. On the right, a 'Select members' dialog is open. It has a search bar and a list of 'Selected members'. One member, 'swapnil shimpi', is listed with their email address 'swapnil.shimpi2011@gmail.com#EXT#...' and a 'Remove' link. At the bottom of the dialog are 'Select' and 'Close' buttons. At the bottom of the main page, there are 'Review + assign', 'Previous', and 'Next' buttons.

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Step5 Create Sql server and database

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1. Click on create Sql server , name the server **exploredbserver**
2. Select Resource group name **ExploreandLearnRGDev**
3. Select the region closer to your physical location to get better performance
4. Select " Use both SQL and Azure AD authentication " authentication method
5. Add server admin credentials- exploreadmin / Ss0061933!
6. Select Azure Active Directory as a "Azure SQL Database"
7. Set firewall rule "Allow Azure services and resources to access this serve" - YES
8. Add a tag DEVDBSERVER
9. Skip intermediate options
10. Add a tag DEVSG

portal.azure.com/#create/Microsoft.SQLServer

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > SQL servers >

Create SQL Database Server

Microsoft

Basics Networking Additional settings Tags **Review + create**

Product details

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

Estimated cost per month
No additional charges

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 pay 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 c

Basics

Subscription	Azure subscription 1
Resource group	ExploreandLearnRGDev
Server name	exploredbserver
Authentication method	SQL and Azure Active Directory authentication
Server admin login	exploreadmin
Azure AD Admin	Azure SQL Database
Location	Sweden Central

Networking

Allow Azure services to access server	Yes
---------------------------------------	-----

Additional settings

Enable Microsoft Defender for SQL	Not now
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Tags

DEVDBSERVER	DEVDBSERVER (Server)
-------------	----------------------

Create < Previous Download a template for automation

CREATING DATABASE

11. Click on create Sql database, name the server exploredbserver **under above server**
12. Service tier - Basic and Locally-redundant backup storage
13. Networking as below

Create SQL Database - Microsoft | (1) Feed | LinkedIn

portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft Azure Upgrade Search resources, services, and docs (G+/I)

Create SQL Database

Microsoft

Choose an option for configuring connectivity to your server via public endpoint or private endpoint. Choosing no access creates with defaults and you can configure connection method after server creation. [Learn more](#)

Connectivity method *

- ☐ No access
- ☒ Public endpoint
- ☐ Private endpoint

Firewall rules

Setting 'Allow Azure services and resources to access this server' to 'Yes' allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to 'Yes' will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server *

Add current client IP address *

Connection policy

Configure how clients communicate with your SQL database server. [Learn more](#)

Connection policy

- ☒ Default - Uses Redirect policy for all client connections originating inside of Azure and Proxy for all client connections originating outside Azure
- ☐ Proxy - All connections are proxied via the Azure SQL Database gateways
- ☐ Redirect - Clients establish connections directly to the node hosting the database

Encrypted connections

This server supports encrypted connections using Transport Layer Security (TLS). For information on TLS version and certificates, refer to connecting with TLS/SSL. [Learn more](#)

Minimum TLS version

Review < create < Previous Next > Security >

26°C Partly cloudy

Search

ENG IN 3:23 PM 2/22/2023

14. To create a dummy schema and tables

Microsoft Azure Upgrade Search resources, services, and docs (G+/I)

Create SQL Database

Microsoft

Basics Networking Security **Additional settings** Tags Review + create

Customize additional configuration parameters including collation & sample data.

Data source

Start with a blank database, restore from a backup or select sample data to populate your new database.

Use existing data *

None Backup **Sample**

AdventureWorksLT will be created as the sample database.

Database collation

Database collation defines the rules that sort and compare data, and cannot be changed after database creation. The default database collation is SQL_Latin1_General_CP1_CI_AS. [Learn more](#)

Collation

SQL_Latin1_General_CP1_CI_AS

SQL

Cost summary

Basic (Basic)	
Cost per DTU (in USD)	0.98
DTUs selected	x 5
ESTIMATED COST / MONTH	4.90 USD

15. Add a tag DEVDB

16. Skip intermediate options

17. Add a tag DEVSG

portal.azure.com/#create/Microsoft.SQLDatabase

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Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > SQL databases >

Create SQL Database

Microsoft

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Product details

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

Estimated cost per month
4.90 USD

Terms

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Basics

Subscription	Azure subscription 1
Resource group	ExploreandLearnRGDev
Region	North Europe
Database name	exploredb
Server	(new) exploredbserver
Authentication method	SQL and Azure Active Directory authentication
Server admin login	exploreadmin
Azure AD Admin	Azure SQL Database
Compute + storage	Basic: 1 GB storage
Backup storage redundancy	Locally-redundant backup storage

Networking

Allow Azure services and resources to access this server	Yes
Add current client IP address	Yes

Cost summary

Basic (Basic)	
Cost per DTU (in USD)	0.98
DTUs selected	x 5
ESTIMATED COST / MONTH	4.90 USD

Create < Previous [Download a template for automation](#)

Validating database

1. Login to database using credentials exploreadmin/Ss0061933!

exploredb (exploredbserver/exploredb) | Query editor (preview)

SQL database

Search Login New Query Open query Feedback

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Getting started
- Query editor (preview)

Settings

- Compute + storage
- Connection strings
- Properties
- Locks

Data management

- Replicas
- Sync to other databases

Integrations

- Azure Synapse Link
- Stream analytics (preview)
- Add Azure Search

Power Platform

- Power BI



Welcome to SQL Database Query Editor

SQL server authentication

Login *
exploreadmin
Password *

OK

Active Directory authentication

Login failed for user '<token-identified principal>'.
Continue as swapnil.shimpi2011@gm...

OR

2. Query the database

exploredb (exploredbserver/exploredb) | Query editor (preview)

SQL database

Search Login New Query Open query Feedback

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Getting started
- Query editor (preview)

Settings

- Compute + storage
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- Azure Synapse Link
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- Add Azure Search

Power Platform

- Power BI

exploredb (exploreadmin)

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

- Tables
 - dbo.BuildVersion
 - dbo.ErrorLog
 - SalesLT.Address
 - SalesLT.Customer
 - SalesLT.CustomerAddress
 - SalesLT.Product
 - SalesLT.ProductCategory
 - SalesLT.ProductDescription
 - SalesLT.ProductModel
 - SalesLT.ProductModelProductDesc
 - SalesLT.SalesOrderDetail
 - SalesLT.SalesOrderHeader
- Views
- Stored Procedures

Query 1

Run Cancel query Save query Export data as Show only Editor

```
1 Select * from
2 [SalesLT].[Customer]
```

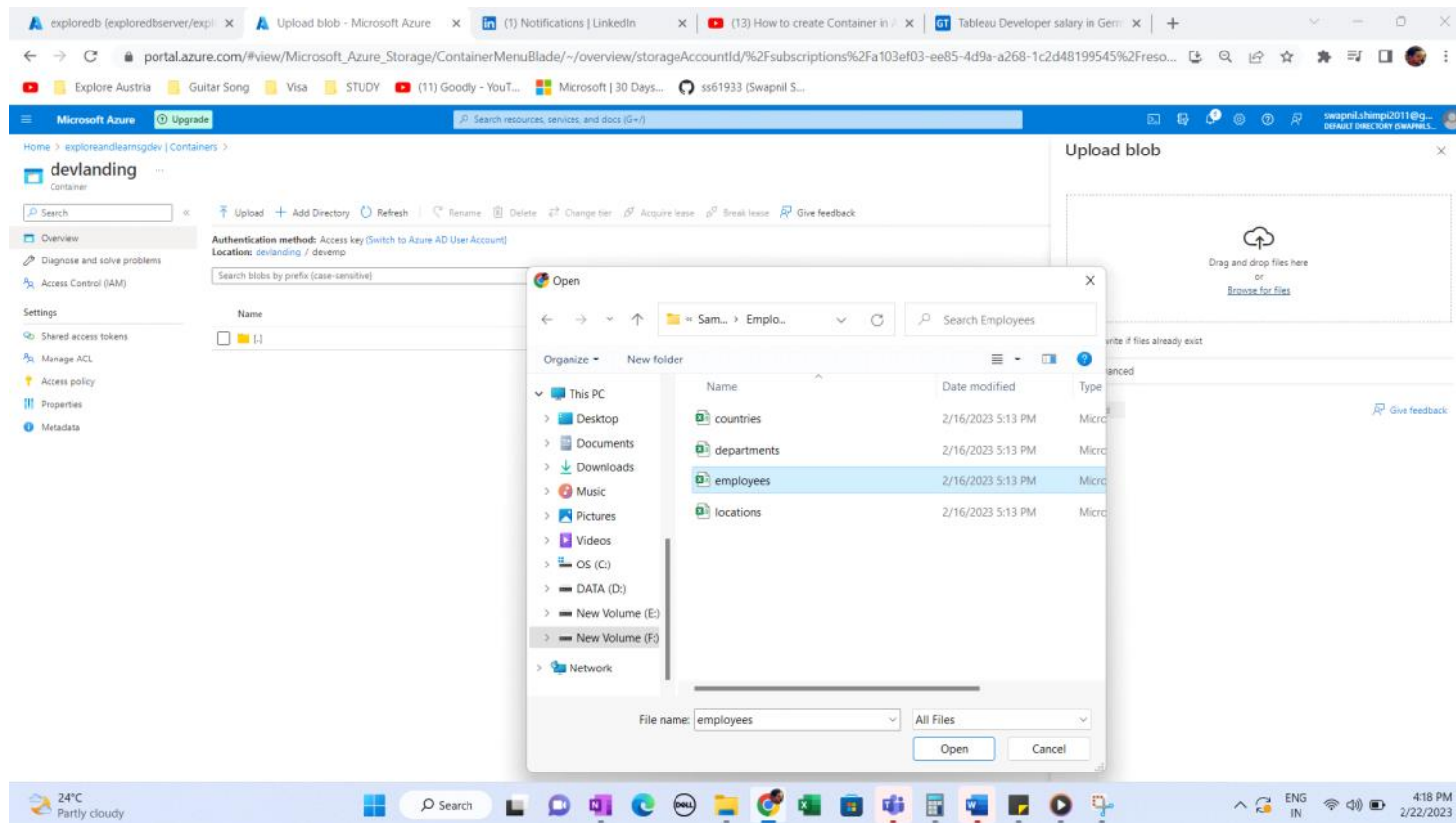
Results

CustomerID	NameStyle	Title	FirstName	MiddleName	LastName
1	False	Mr.	Orlando	N.	Gee
2	False	Mr.	Kath		Harris
3	False	Ms.	Donna	F.	Carreiras
4	False	Ms.	Janet	M.	Gates
5	False	Mr.	Lucy		Harrington
6	False	Ms.	Rosemarie	J.	Carroll

Step6 Uploading files to ADLS account

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1. Select a storage account - > container - > sub container as shown below and upload a file



Step7 Creating ADF - Azure data factory

Wednesday, February 22, 2023 4:14 PM

1. Click on Create data factory and select resource group **ExploreandLearnDev**
2. Name the ADG as **ExploreandlearnADF**
3. Check mark the Configure Git later option
4. Add a tag **ADFDEV**

portal.azure.com/#create/Microsoft.DataFactory

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Microsoft AzureUpgrade

Search resources, services, and docs (G+)

Home >

Create Data Factory ...

Validation Passed

BasicsGit configurationNetworkingAdvancedTagsReview + create

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Basics

SubscriptionAzure subscription 1

Resource groupExploreandLearnRGDev

NameExploreandlearnADF

RegionNorth Europe

VersionV2

Networking

Connect viaPublic endpoint

Tags

ADFDEVADFDEV (Data factory (V2))

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