

Create an Azure SQL Server Database

In this tutorial I'm going to show how to:

- Create a Resource Group
- Create a SQL Database Server
- Deploy SQL Database to the SQL Database Server

Important:

This tutorial is Part 1, of a series of tutorials.

- *Part 1: Create an Azure SQL Server Database*
- *Part 2: Connecting to Azure SQL Database*
- *Part 3: Enabling Geo Replication on Azure SQL Server Database*

Step 01: Create a new Resource Group

- Name: rg-NetworkServices
- Region: (US) Central US



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Create a resource group

[Basics](#) [Tags](#) [Review + create](#)



Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

* Subscription  Visual Studio Professional 

* Resource group  rg-NetworkServices 



Resource details

* Region  (US) Central US 

We can see the newly created Resource Group.

[Home](#) > [Resource groups](#)






Resource groups
Department of Health and Human Services, Victoria

[Documentation](#)  

[+ Add](#) [Edit columns](#) [Refresh](#) [Export to CSV](#) [Assign tags](#)

Subscriptions: 1 of 2 selected – Don't see a subscription? [Open Directory + Subscription settings](#)

1 items

<input type="checkbox"/>	NAME 	SUBSCRIPTION 	LOCATION 	
<input type="checkbox"/>	 rg-NetworkServices	Visual Studio Professional	Central US	

Step 02: Create a SQL Database Server

- Resource group: rg-NetworkServices
- Server name: patsam-finance-server
- Location: (US) Central US
- Server admin login: Username/password (this will be the admin login for this server)

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Create SQL Database Server

Microsoft

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SQL database server is a logical container for managing databases and elastic pools. Complete the Basic 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 ⓘ

Visual Studio Professional

* Resource group ⓘ

rg-NetworkServices

[Create new](#)

Server details

Enter required settings for this server, including providing a name and location.

* Server name

patsam-finance-server

.database.windows.net

* Location

(US) Central US

Administrator account

* Server admin login

patsam

* Password

.....

* Confirm password

.....

[Review + create](#) [Next : Networking >](#)

Click Next: Networking button

Select option Yes to allow Azure services/resources to access this server. This will allow us to login to this SQL Server through Azure Portal.

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Create SQL Database Server

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Configure networking access for your server.

Firewall rules

Allow Azure services and resources to access this server ⓘ

☒ Yes ☐ No

Click Review + Create button

[Home](#) > [SQL servers](#) > Create SQL Database Server

Create SQL Database Server

Microsoft

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Product details

SQL Database Server
by Microsoft
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Estimated cost per month
No additional charges

Terms

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Basics

Subscription	Visual Studio Professional
Resource group	rg-NetworkServices
Server name	patsam-finance-server
Server admin login	patsam
Location	(US) Central US

Networking

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

Additional settings

Enable Advanced Data Security	Not now
-------------------------------	---------

Tags

Create

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Home > Microsoft.SqlServer.createServer_7aa8d31037d74f8f8d0d8c005842239 - Overview

Microsoft.SqlServer.createServer_7aa8d31037d74f8f8d0d8c005842239 - Overview

Deployment

Search (Ctrl+/)

Delete Cancel Redeploy Refresh

- Overview
- Inputs
- Outputs
- Template

✓ Your deployment is complete

Deployment name: Microsoft.SqlServer.createServer_7aa8d31037... Start time: 8/28/2019, 9:51:18 AM
Subscription: [Visual Studio Professional](#) Correlation ID: cb54142f-e7cc-43d3-b2da-1ec8e1deca2a
Resource group: [rg-NetworkServices](#)

Deployment details (Download)

RESOURCE	TYPE	STATUS	OPERATION DETAILS
✓ patsam-finance-server/All	Microsoft.Sql/servers/fir...	Created	Operation details
✓ patsam-finance-server	Microsoft.Sql/servers	Created	Operation details

Next steps

[Go to resource](#)

We can see the newly created SQL Server.

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SQL servers

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Documentation ?

+ Add Edit columns Refresh Assign tags

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1 items

NAME	STATUS	LOCATION	SUBSCRIPTION
<input type="checkbox"/> patsam-finance-server	Available	Central US	Visual Studio Professional


Step 03: Create a SQL Database

- Resource group: rg-NetworkServices
- Server name: patsam-finance-database
- Server: patsam-finance-server (the server we created in the previous step)
- Compute + storage: Basic, 100 MB storage (basic level due to cost saving)

[Home](#) > [SQL databases](#) > [Create SQL Database](#)

Create SQL Database

Microsoft

 Changing basic options may reset selections you have made. Please review all options prior to creating the database.

[Basics](#) [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 ⓘ

Visual Studio Professional

Resource group ⓘ

rg-NetworkServices

[Create new](#)

database details

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

* Database name

patsam-finance-database

* Server ⓘ

patsam-finance-server (Central US)

[Create new](#)

* Want to use SQL elastic pool? ⓘ

☐ Yes ☒ No

* Compute + storage ⓘ

Basic

100 MB storage

[Configure database](#)

[Review + create](#)

[Next : Additional settings >](#)

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Configure Database (Compute + Storage)

Home > SQL databases > Create SQL Database > Configure

Configure

Feedback

Basic

For less demanding workloads

Standard

For workloads with typical performance requirements

Premium

For IO-intensive workloads

vCore-based purchasing options

Click here to customize your performance using vCores

DTUs [What is a DTU?](#)


5 (Basic)

Data max size

100 MB

2 GB

100 MB



Cost summary

Cost per DTU (in AUD)

DTUs selected

ESTIMATED COST / MONTH

1.37

x 5

6.85 AUD

Apply

Click Next: Additional Settings button.

- Use existing database: Sample (this will create sample AdventureWorksLT database)
- Database Collation: Select the option required

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Create SQL Database

Microsoft

[Basics](#) [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

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Click Review + Create button.

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Create SQL Database

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Product details

SQL database
by Microsoft
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Estimated cost per month
6.85 AUD
[View pricing details](#)

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Basics

Subscription	Visual Studio Professional
Resource group	rg-NetworkServices
Region	centralus
Database name	patbam-finance-database
Server	patbam-finance-server
Compute + storage	Basic: 100 MB storage

Additional settings

Use existing data	Sample
Collation	SQL_Latin1_General_CP1_CI_AS
Advanced Data Security	Not now

Tags

Create

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Home > Microsoft.SqlDatabase.newDatabaseExistingServer_13bbd384de974070 - Overview

Microsoft.SqlDatabase.newDatabaseExistingServer_13bbd384de974070 - Overview

Search (Ctrl+J)

Overview
Inputs
Outputs
Template

Delete Cancel Redeploy Refresh

Your deployment is complete

Deployment name: Microsoft.SqlDatabase.newDatabaseExistingS... Start time: 8/28/2019, 10:07:10 AM
Subscription: Visual Studio Professional Correlation ID: f223347b-3177-47f2-b859-864c062c3fed
Resource group: rg-NetworkServices

Deployment details (Download)

RESOURCE	TYPE	STATUS	OPERATION DETAILS
patnam-finance-server/pa	Microsoft.Sql/servers/da...	Created	Operation details

Next steps

[Go to resource](#)

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We can see the newly created SQL Database.

Home > SQL databases

SQL databases

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Documentation ? X

+ Add Reservations Edit columns Refresh Assign tags Delete

Try your new Azure SQL resource browser! This experience offers a unified view of all your SQL Server resources in Azure as well as improved sorting and filtering. Click here to go to the new experience.

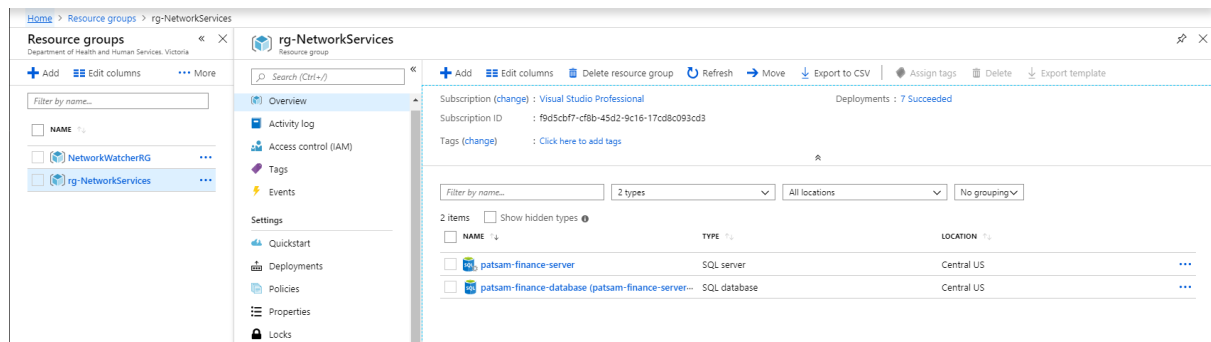
Subscriptions: 1 of 2 selected - Don't see a subscription? [Open Directory](#) + [Subscription settings](#)

Filter by name... Visual Studio Professional All resource groups All locations All tags No grouping

1 items

NAME	STATUS	REPLICATION ROLE	SERVER	PRICING TIER	LOCATION	SUBSCRIPTION
patnam-finance-database (p...	Online	None	patnam-finance-server	Basic	Central US	Visual Studio Professional

Under Resource Group “rg-NetowtkServices” we can see the newly created SQL Server and SQL Database.



Click on SQL Server “patsam-finance-database” and under tab Databases we can see the SQL Database we created.

Mind you a single SQL Server can have multiple SQL Databases attached to it.

