

Connect Logic App with On-Prem

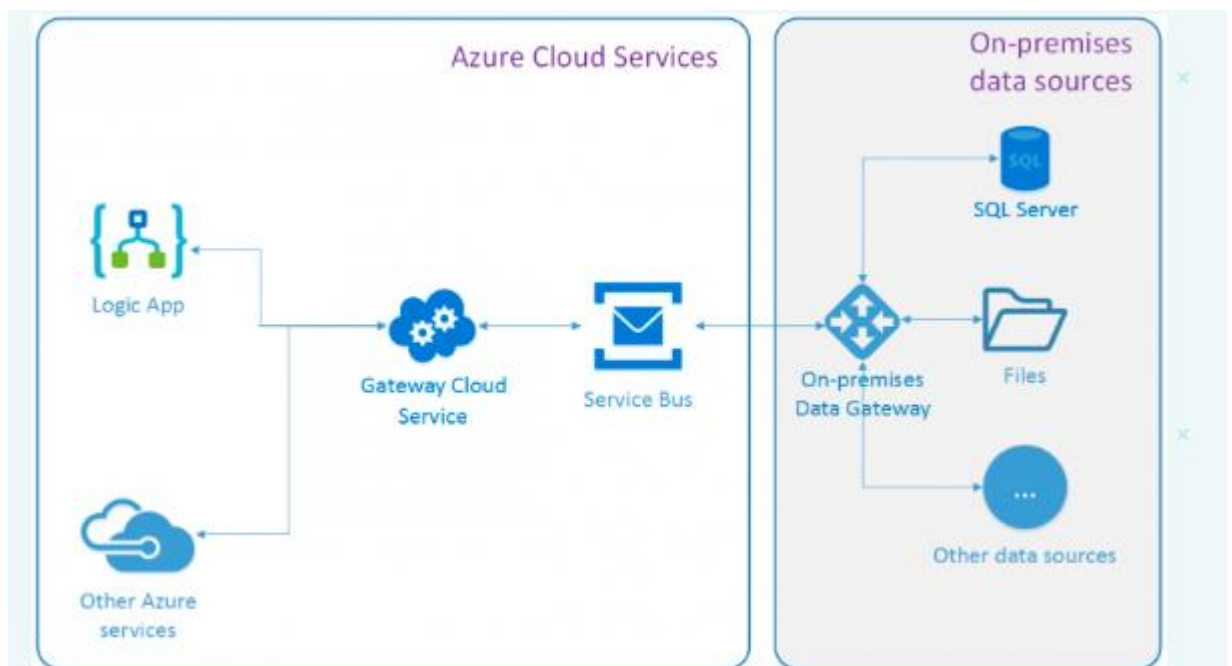
Overview:

This article gives you an overview of how to connect your azure cloud services with on premise resources

On prem gateway act as a bridge between your on-premise data resource and your Azure cloud services

How it works:

- Azure Gateway use Azure service bus as an intermediate between cloud services and on prem gateway service
- Azure Gateway sends query to service bus
- On-Prem gateway service polls for service bus for all request
- On-Prem gateway fetch and execute query.
- On-prem gateway sends result back to service Bus



Limitation :

There are some limitation of SQL connector in Logic app

- The response size limit is 8MB through on-premises SQL server.
- The request size limit is 2MB through on-premises SQL server.
- SQL native query is not supported for on-premises SQL server.
- It only support 100 calls in 10 secs

<https://docs.microsoft.com/en-us/connectors/sql/>

Install On-Prem Gateway



On-premises data gateway installer



Start your on-premises data gateway installation.

A gateway acts as a bridge between on-premises data (not in the cloud), and Power BI, PowerApps, Logic Apps, and Microsoft Flow.

Gateways should be installed on a computer that is always on.

Performance may be slower on a wireless network.

[Learn more](#)

Next

Cancel



On-premises data gateway



Almost done.

Installation was successful!

Email address to use with this gateway:

user1@mohitguptaakgechotmail.onmicrosoft.com

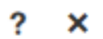
Next, you need to sign in to register your gateway.

Sign in

Cancel



On-premises data gateway



Status

✓ The gateway gateway-on-prem is online and ready to be used.

Gateway version number: 3000.9.194 (September 2019)

Service Settings

Diagnostics

Network

Connectors

✓ Help us improve the on-premises data gateway by sending usage information to Microsoft.

[Read the privacy statement online](#)

Logic Apps, Azure Analysis Services

West India

[Create a gateway in Azure](#)

PowerApps, Microsoft Flow

Default environment

✓ Ready

Power BI

Default environment

✓ Ready

Close

Task Manager

File Options View

Processes Performance Users Details Services

Name	PID	Description	Status	Group
PBIEgwService	6848	On-premises data gateway service	Running	

Microsoft Azure

Search resources, services, and...

Home > On-premises Data Gateways > Create connection gateway

Create connection gateway

On-premises data gateway


* Resource Name
on-prem-gateway ✓

* Subscription
Visual Studio Ultimate with MSDN ▼

* Resource group
fabrikam-rg ▼
[Create new](#)

* Location
West India ▼

* Installation Name
gateway-on-prem ▼

 Select from available installed gateways. For details click here.

[Create](#) [Automation options](#)

Create new table in on-prem database

Object Explorer

Connect ▼

vm-sql (SQL Server 13.0.4604 - vm-sql\)

- Databases
 - System Databases
 - Database Snapshots
 - SocialNetwork
 - Database Diagrams
 - Tables
 - Views

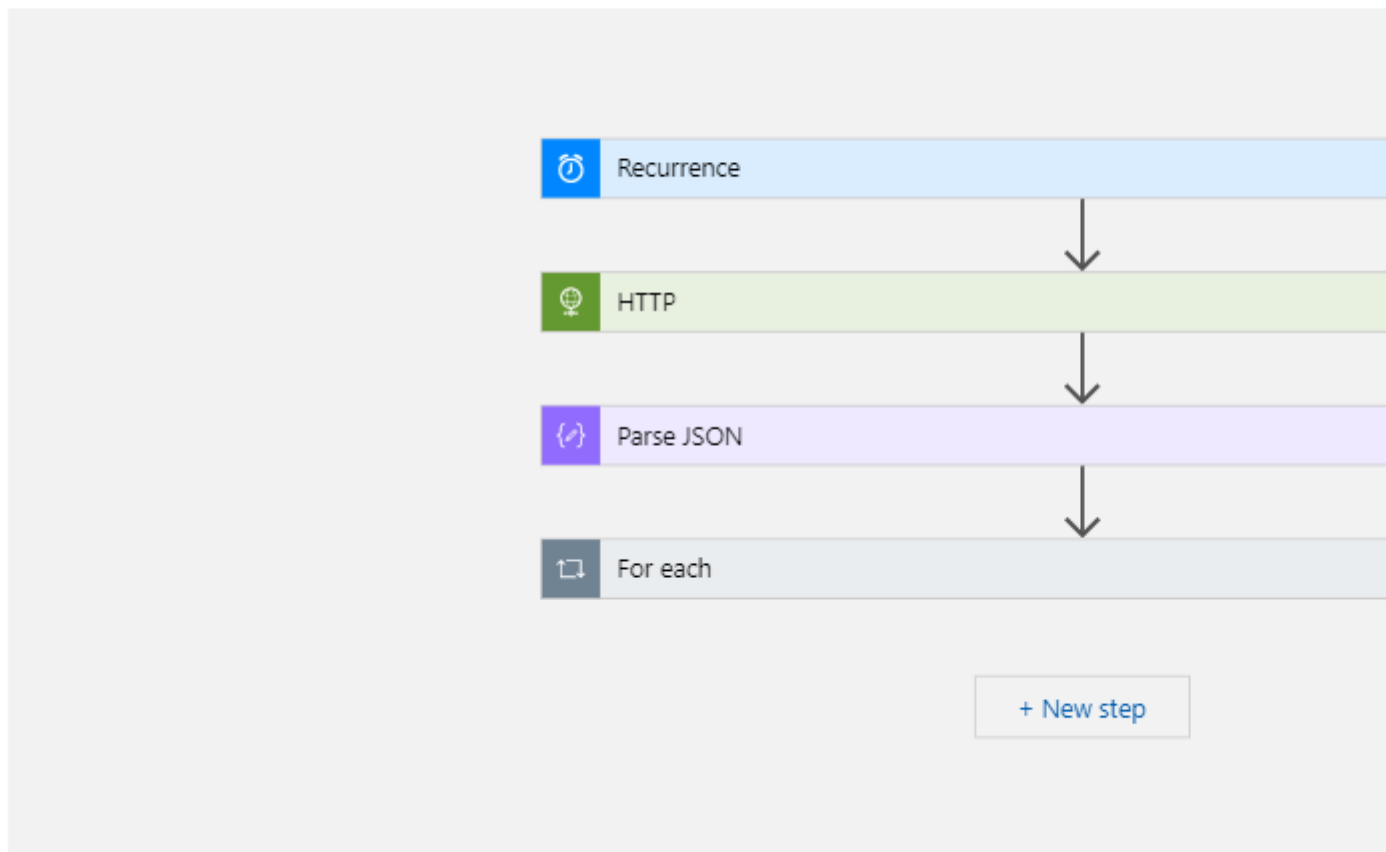
vm-sql.SocialNetwork - dbo.Table_1*

Column Name	Data Type	Allow Nulls
userId	nchar(10)	☑
id	nchar(10)	☑
title	nvarchar(MAX)	☑
body	nvarchar(MAX)	☑
		☐




Create logic app to connect with on-prem SQL Server

Logic Apps Designer


 Save  Discard  Run  Designer  Code view  Templates  Connectors  Help



Http Action Setting : Use Fake API


 HTTP  

* Method

GET 


* URI

https://jsonplaceholder.typicode.com/posts

Headers 

Enter key

Enter value

Queries 


Enter key


Enter value

Body



Enter request content

* Authentication

None 

Add new parameter 

SQL Connector on-prem Setting:

 Insert row (V2) 

* Connection Name

sql

* SQL server name

vm-sql


* SQL database name

SocialNetwork


* Username

systemadmin

* Password


☒ Connect via on-premises data gateway 

Authentication Type


Basic 

* Gateways

Subscription

Visual Studio Ultimate with MSDN 

Connection Gateway

gateway-on-prem 

Create

[Manually enter connection information](#)

Specify parameter from Json Parsor to Table columns

For each

* Select an output from previous steps

Body x

Insert row (V2)

* Server name
Use connection settings (vm-sql)

* Database name
Use connection settings (SocialNetwork)

* Table name
Posts

userId
userId x

id
id x

title
title x

body
body x

Connected to sql. [Change connection.](#)

Test Result :

100 %

Results

Messages

	userId	id	title	body
1	2	11	et ea vero quia laudantium autem	delectus reiciendis molestiae occaecati non minima ...
2	4	31	ullam ut quidem id aut vel consequuntur	debitis eius sed quibusdam non quis consectetur vit...
3	2	18	voluptate et itaque vero tempora molestiae	eveniet quo quis laborum totam consequatur non do...
4	2	16	sint suscipit perspiciatis velit dolorum rerum ipsa l...	suscipit nam nisi quo aperiam aut asperiores eos fugi...
5	6	51	soluta aliquam aperiam consequatur illo quis vol...	sunt dolores aut doloribus dolore doloribus voluptate...
6	2	12	in quibusdam tempore odit est dolorem	itaque id aut magnam praesentium quia et ea odit et ...
7	1	3	ea molestias quasi exercitationem repellat qui ips...	et iusto sed quo iure voluptatem occaecati omnis eli...
8	2	17	fugit voluptas sed molestias voluptatem provident	eos voluptas et aut odit natus earum aspernatur fug...
9	1	10	optio molestias id quia eum	quo et expedita modi cum officia vel magni doloribus...
10	1	8	dolorem dolore est insam	dinwissimos aperiam dolorem qui eum facilis quibusd