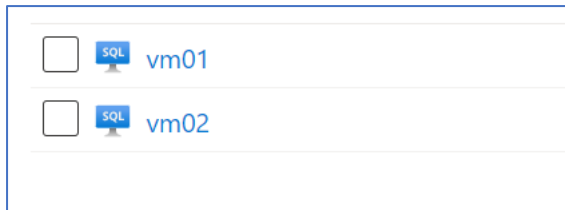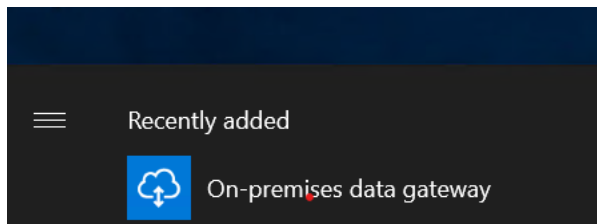Set up failover for power bi refreshes high availability

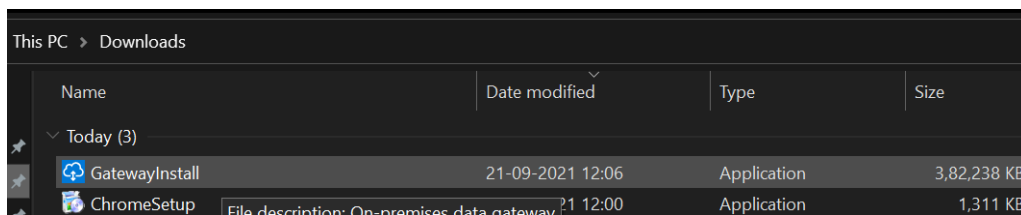Step 1 create 2 Azure SQL VM name = 'vm01' ,'vm02'

Step 2 open vm01 install On-premises gateway
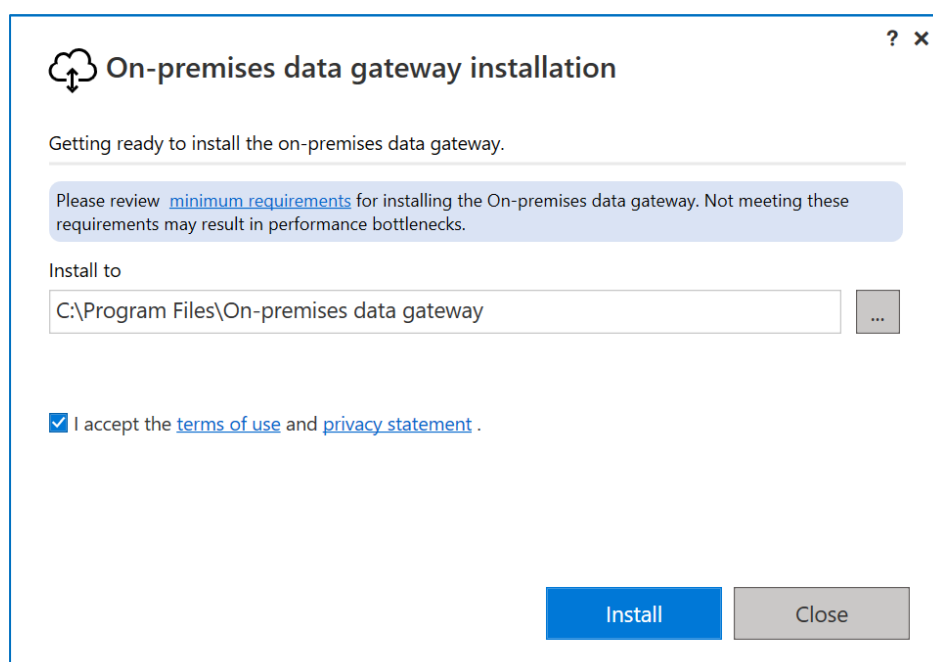

Link for download

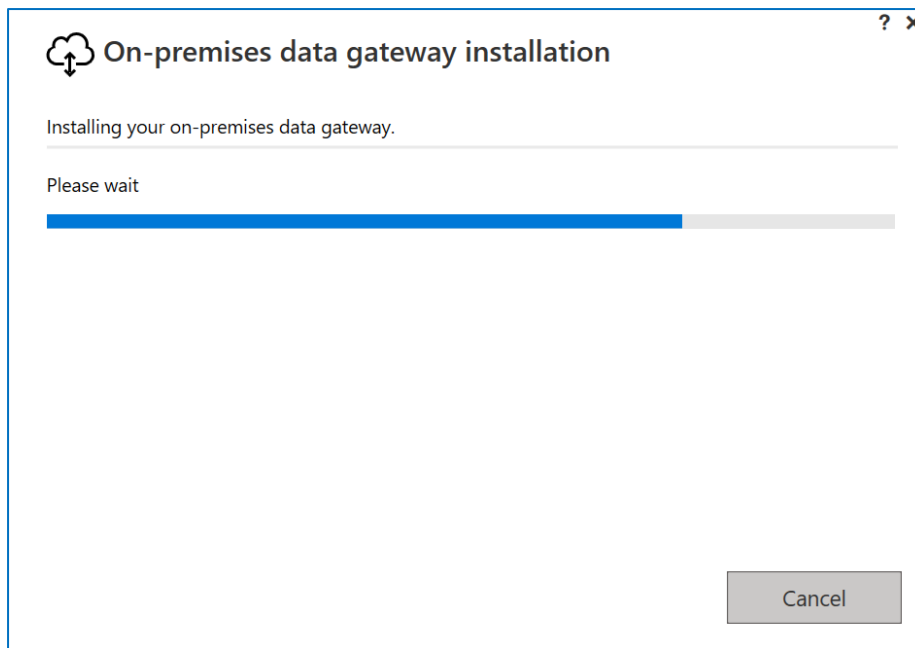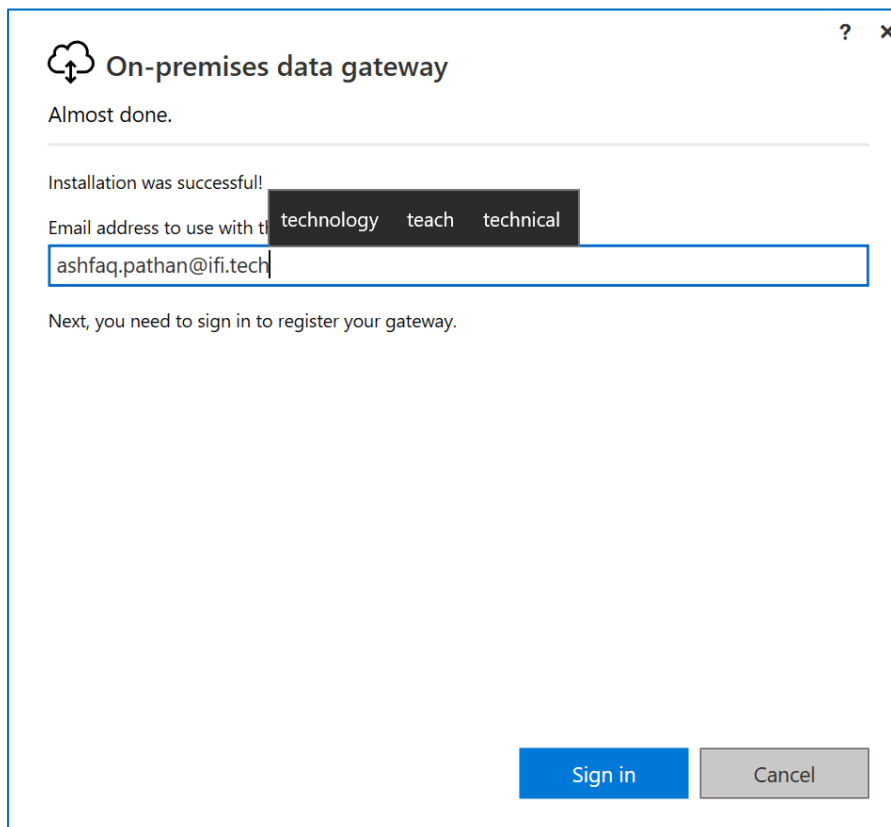https://go.microsoft.com/fwlink/?LinkId=698861

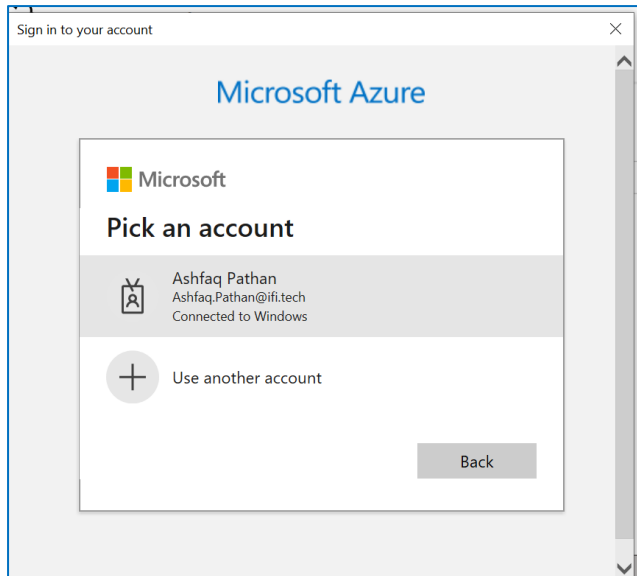Step 2.1 install these applications in "vm01". Click on check box and install button

Step 2.2 before this 2 pop up will appear select yes option
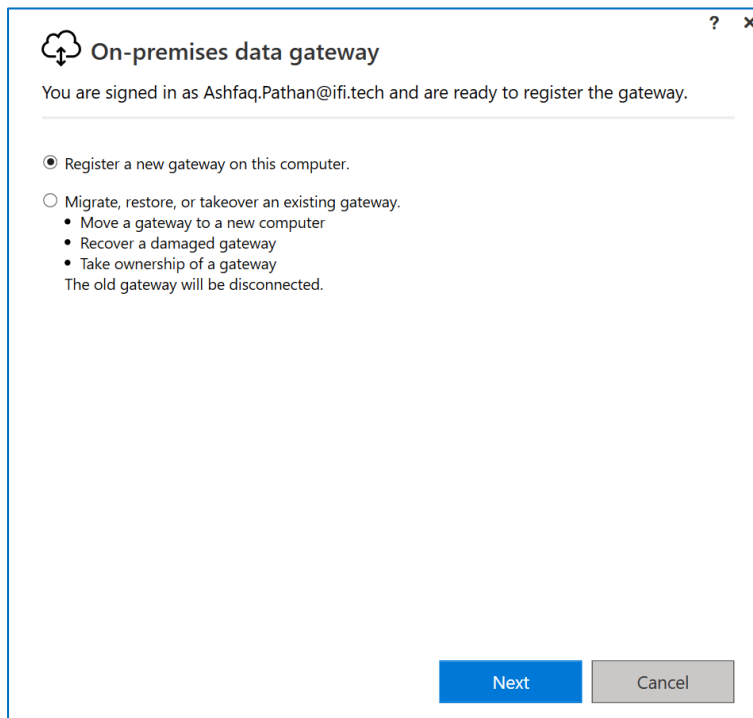

Step 2.3 Enter you email id and sign in.

Step 2.4 select account and click on it.

Step 2.5 Select Register option and click next button.

Step 2.6 Enter gateway name enter passwords and click on configure button

2.7 click on close button

Step 3 open power bi web Platform Click on schedule refresh

3.1 you will get the blow screen click on gateway connection
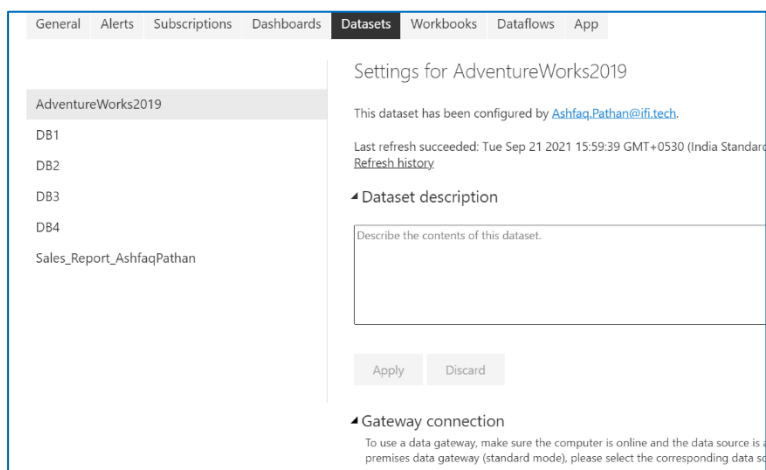
3.2 we have to configure vm01 gateway in power bi
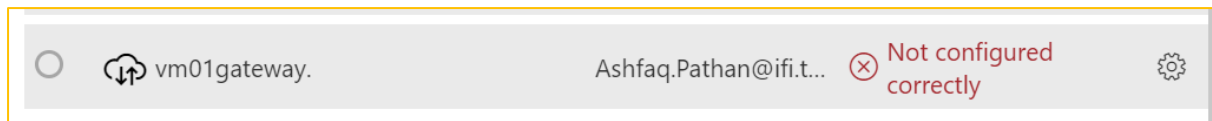
3.3 click on 3 dot hover on your gateway and add a new data sources.
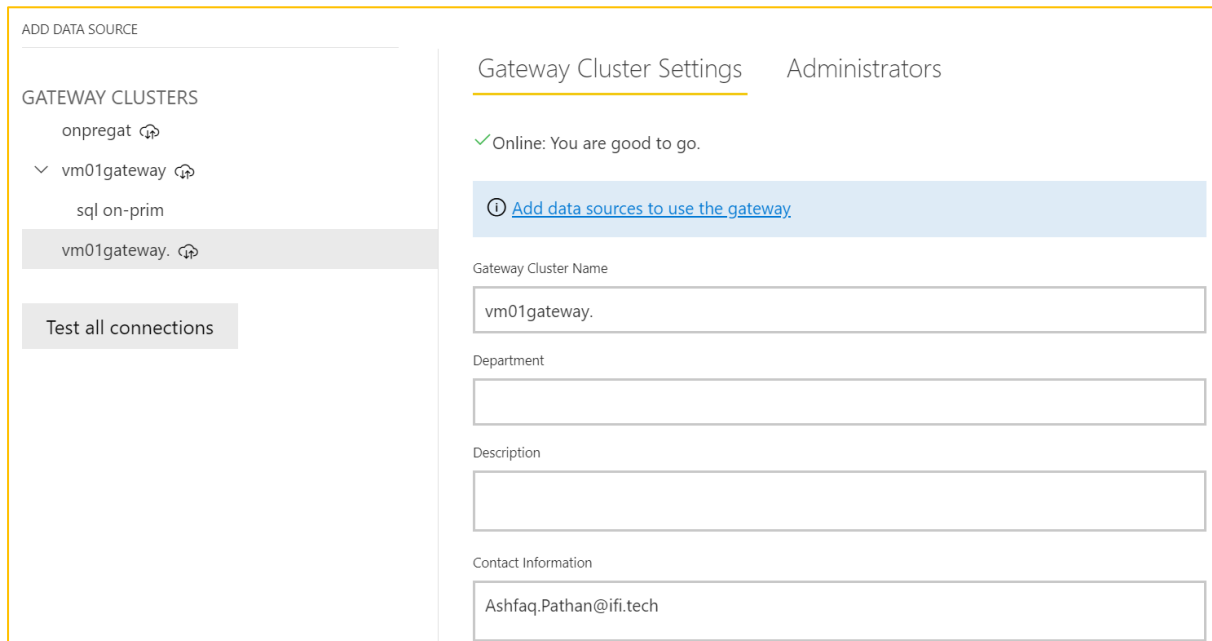
3.4 Click on Add Data Source
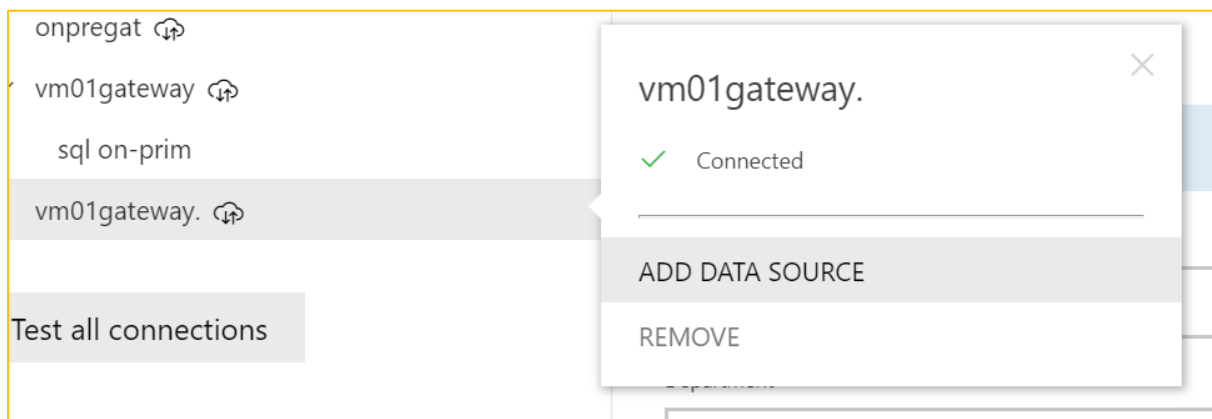
3.5

Data Source Settings   Users

Data Source Name

SQL on-premise

Data Source Type

SQL Server

Server

vm01

Database

AdventureWorks2019

Authentication Method

Select an authentication method

☐ Skip Test Connection

〉Advanced settings

Add   Discard

Step 4 install on-premises data gateway in vm02 Click on check box and install button

☁ On-premises data gateway installation   ? ✕

Getting ready to install the on-premises data gateway.

Please review minimum requirements for installing the On-premises data gateway. Not meeting these requirements may result in performance bottlenecks.

Install to

C:\Program Files\On-premises data gateway   ...

☑ I accept the terms of use and privacy statement .

Install   Close

Step 4.1 before this 2 pop up will appear select yes option
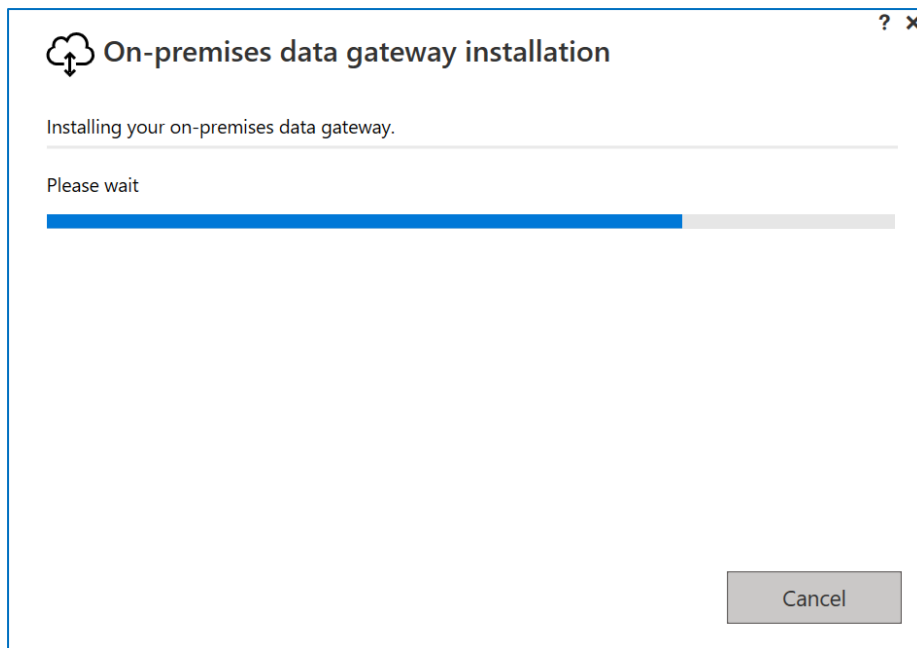
Step 4.2 Enter you email id and sign in.
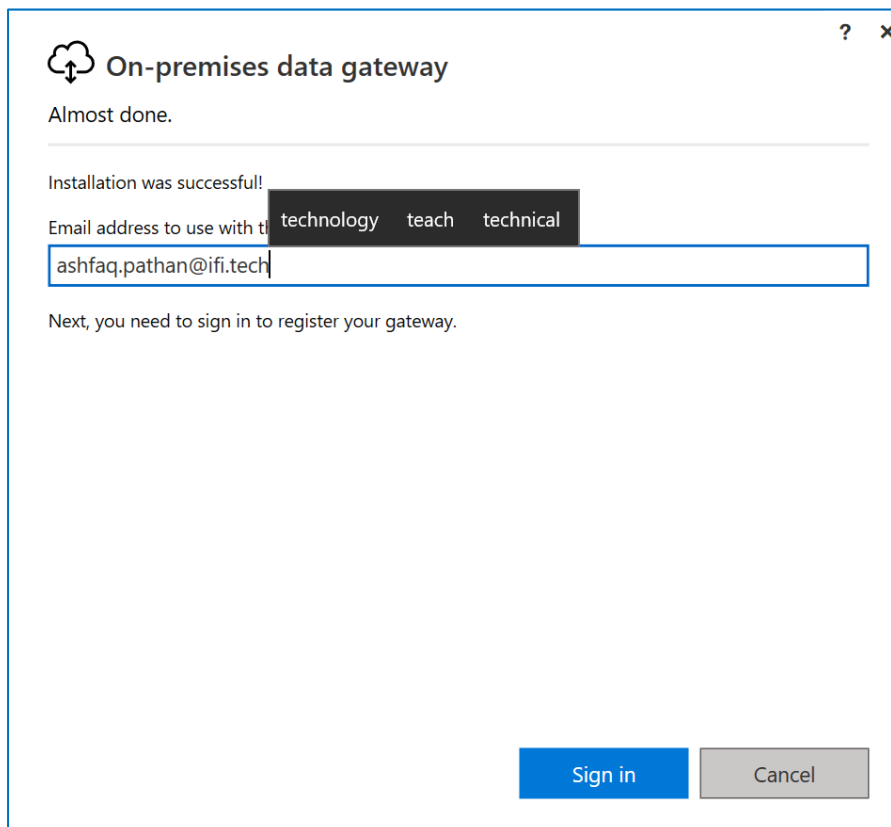
Step 4.3 select account and click on it.
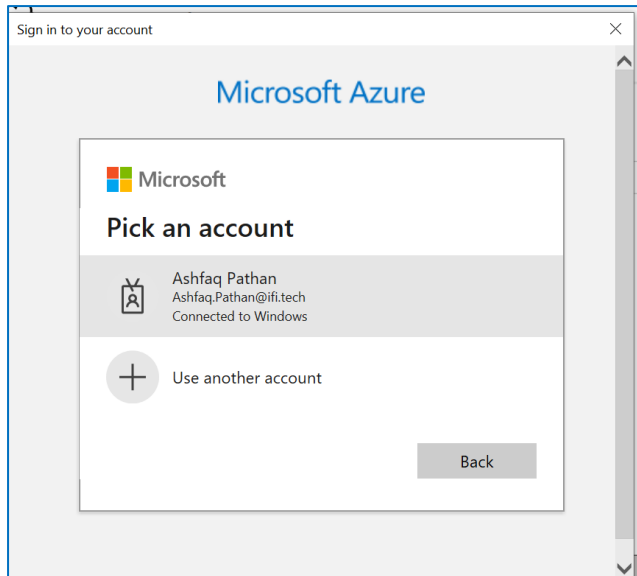
Step 4.4 Select Register option and click next button.
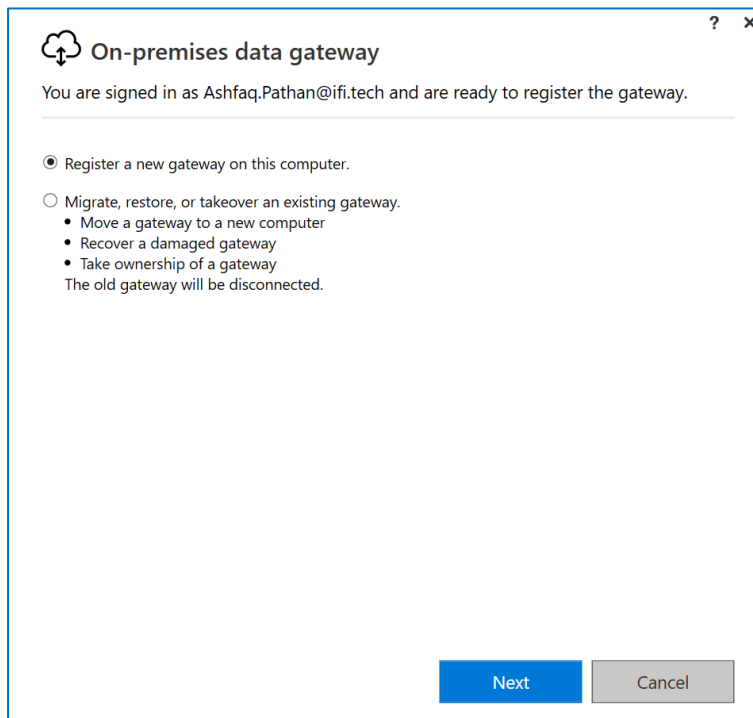
Step 4.5 Enter gateway name and click on check box **add to an existing cluster** and click on configure button.

Step 5 check for the gateway cluster using power-shell in 'vm01'

5.1 install packages

Install-Module -Name OnPremisesDataGatewayHAMgmt

5.2 run this

Get-Command -Module OnPremisesDataGateway*

```
PS C:\Users\ashfaq> Get-Command -Module OnPremisesDataGateway*

CommandType     Name                                           Version      Source
-----------     ----                                           -------      ------
Alias           Login-OnPremisesDataGateway                    3000.15.18 OnPremisesDataGatewayHAMgmt
Alias           Logout-OnPremisesDataGateway                   3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Get-OnPremisesDataClusterGateways              3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Get-OnPremisesDataGatewayClusters              3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Get-OnPremisesDataGatewayRegions               3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Get-OnPremisesDataGatewayStatus                3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Remove-OnPremisesDataGateway                   3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Remove-OnPremisesDataGatewayUserAccount        3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Set-OnPremisesDataGateway                      3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Set-OnPremisesDataGatewayCluster               3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Set-OnPremisesDataGatewayRegion                3000.15.18 OnPremisesDataGatewayHAMgmt
Function        Set-OnPremisesDataGatewayUserAccount           3000.15.18 OnPremisesDataGatewayHAMgmt
```
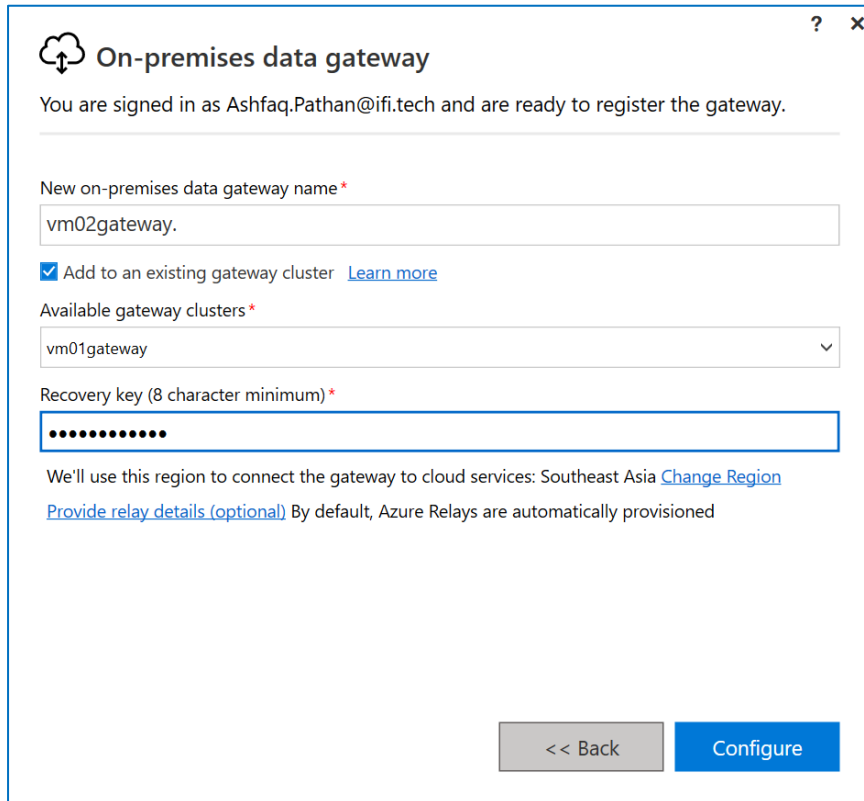
5.3 login into PowerShell

Login-OnPremisesDataGateway

```
PS C:\Users\ashfaq>  Login-OnPremisesDataGateway

cmdlet Set-OnPremisesDataGatewayUserAccount at command pipeline position 1
Supply values for the following parameters:
EmailAddress: ashfaq.pathan@ifi.tech
Current backend is:  https://wabi-south-east-asia-redirect.analysis.windows.net/
```

5.4 check the cluster

Get-OnPremisesDataGatewayClusters

```
PS C:\Users\ashfaq> Get-OnPremisesDataGatewayClusters
```

5.5 we can see the vm01 and vm02 is in the same cluster group

```
n                          "gatewayId":  1630257,
                           "gatewayObjectId":  "0922e022-d0cb-4a40-8476-4cf789f38acf",
                           "gatewayName":  "vm01gateway",
                           "gatewayStatus":  "Installed",
                           "isAnchorGateway":  true,
                           "gatewayClusterStatus":  "Enabled",
                           "gatewayPublicKey":  "PD94bWwgdmVyc2lvbj0iMS4wIj8+DQo8UlNBUGFyYW1ldGVycyB4bWxuczp4c2Q9Imh0dHA
                   3cudzMub3JnLzIwMDEvWE1MU2NoZW1hLWluc3RhbmNlIj4NCiAgPEV4cG9uZW50PkFRQUI8L0V4cG9uZW50Pg0KICA8TW9kdWx1cz
                   KzE1Uys2Uk5FcHZreTZQU3AySDVSdXZ1NS9oVURTci9ESDJzRnJCb3dDZUM5TVBDb1B3QkdJUHhzbWdhbHYXamVlejE4cnVWd
                   LT2NNVm5STitKOWtlZExoTEd5T0wwQThzVkUwwDRYSVhYOHJ4VGxjMitzL0ppVWh3ME0rbnZqbmsrbTE0R1IrZVl6elhvZmVZUU5
                   Q0cDNVaGhRVlZWVXJhRkx1NjVGMFZodkltWG9obDMvZm9OWXgyUU52RFE9PTwvTW9kdWx1cz4NCjwvUlNBUGFyYW1ldGVycz4=",
                           "gatewayVersion":  "3000.96.1",
                           "gatewayVersionStatus":  "Latest",
                           "expiryDate":  null,
                           "gatewayContactInformation":  "Ashfaq.Pathan@ifi.tech",
                           "gatewayMachine":  "vm01"
                   },
                   {
                           "gatewayId":  1630293,
                           "gatewayObjectId":  "3ba631f2-31e1-463b-86b2-b9384f69aae7",
                           "gatewayName":  "vm02gateway",
                           "gatewayStatus":  "Installed",
                           "isAnchorGateway":  false,
                           "gatewayClusterStatus":  "Enabled",
                           "gatewayPublicKey":  "PD94bWwgdmVyc2lvbj0iMS4wIj8+DQo8UlNBUGFyYW1ldGVycyB4bWxuczp4c2Q9Imh0dHA
                   3cudzMub3JnLzIwMDEvWE1MU2NoZW1hLWluc3RhbmNlIj4NCiAgPEV4cG9uZW50PkFRQUI8L0V4cG9uZW50Pg0KICA8TW9kdWx1cz
                   Tmd4ZStvR2kxSDBCbm4xb0l4QkRFMEV6cVB2NnEva3lKemluMGx2cVhhaDNNbDN6YjUrcWorZW5WdEU5cnBaMUxSaVR3KzA3dnE1V
                   zYXRYZWVJc3RoeVhMR0N0SVJYK0FVRFEwbkkrYkg5Y2Zqb3JSblkzMFRaU1ZaWHVmSzJiQXFoVWs4aUdGc0JFVlltb011czNEbDBW
                   dlMnNCU29SU1pLbE1JaWNNM3JnVitYMlA5OXNLbGthYTlSQVlkUys0YVE9PTwvTW9kdWx1cz4NCjwvUlNBUGFyYW1ldGVycz4=",
                           "gatewayVersion":  "3000.96.1",
                           "gatewayVersionStatus":  "Latest",
                           "expiryDate":  null,
                           "gatewayContactInformation":  "Ashfaq.Pathan@ifi.tech",
                           "gatewayMachine":  "vm02"
                   }
               ]
versionStatus         : Latest
expiryDate            :
type                  : Resource
options               :
staticCapabilities : 0
loadBalancingType     : Failover
```

5.6 the same thing you can check using admin porter

https://admin.powerplatform.microsoft.com/ext/DataGateways

5.7 open vm01gateway click on **i** button

Gateway cluster: vm01gateway   ✕

🔄 Check status

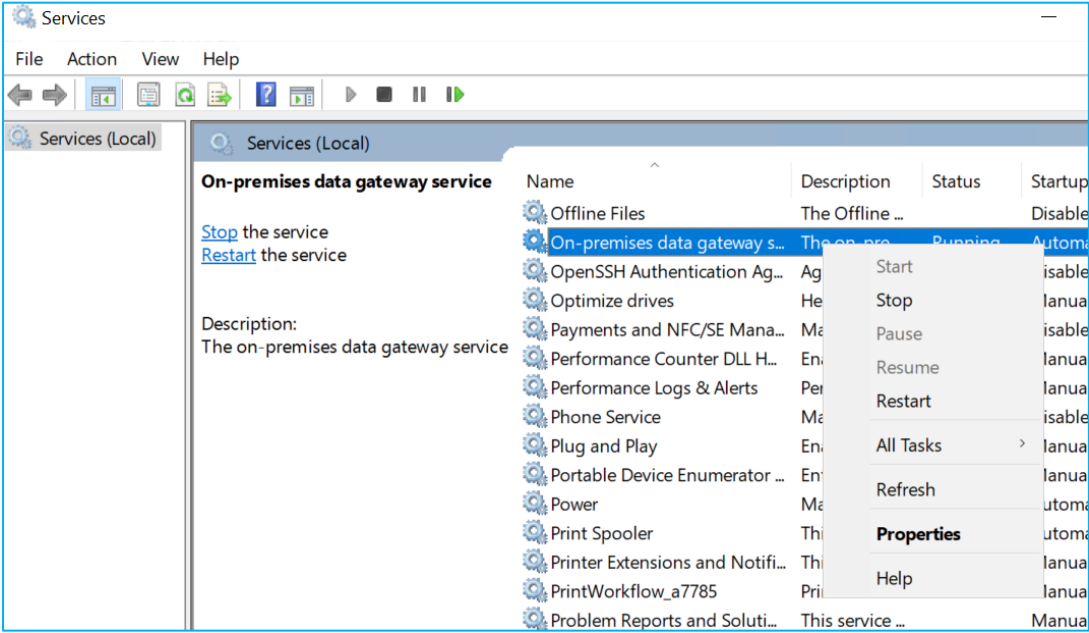| Name ↑	Device	Status	Version	State
vm01gatway (Primary)	vm01	🔄 Online	3000.96.1	⬤ Enabled
vm02gateway	vm02	🔄 Online	3000.96.1	⬤ Enabled

As we can see both are on-line ill stop vm01 gateway and run the dataset refresh.

Step 6 stop vm01 gateway

Open service from windows
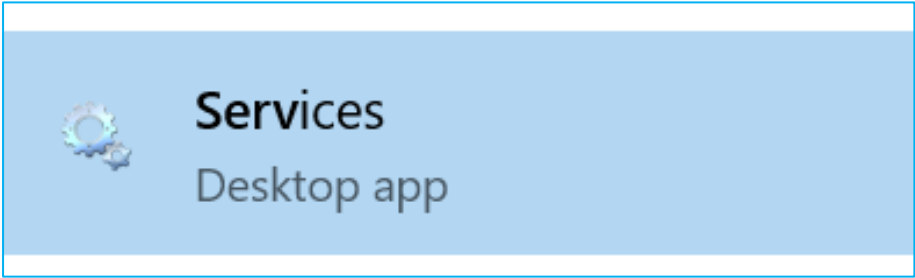
6.1 search for on-premise gateway and stop it

6.2 will check if vm01 is stopped using admin portal

As we can see now vm01gateway is offline

6.3 let's run dataset refresh click on circle aero

6.4 Click on refresh history

6.5 Refresh history we can see the status is completed its because of 2nd vm02 gateway was online

Refresh history

Scheduled   OneDrive

Details	Type	Start	End	Status	Message
	On demand	9/21/2021, 6:25:34 PM	9/21/2021, 6:25:49 PM	Completed	

https://admin.powerplatform.microsoft.com/ext/DataGateways