

# WorkshopPLUS

## Power Platform for Admins

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### Module 5 – On-Premise Data Gateway

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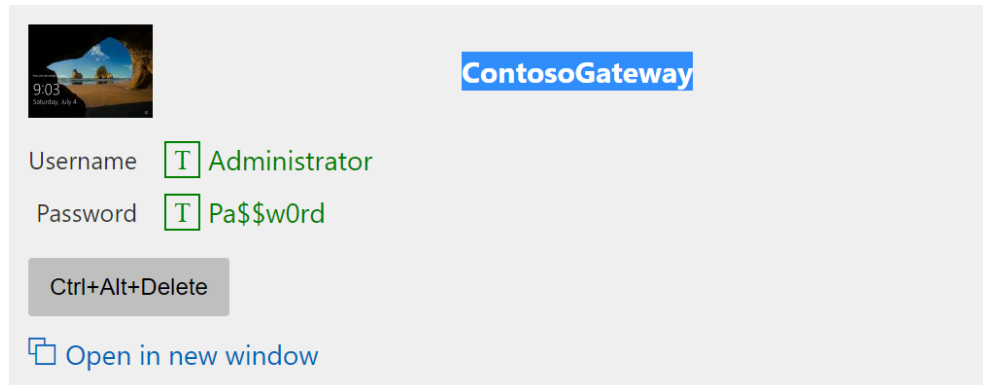
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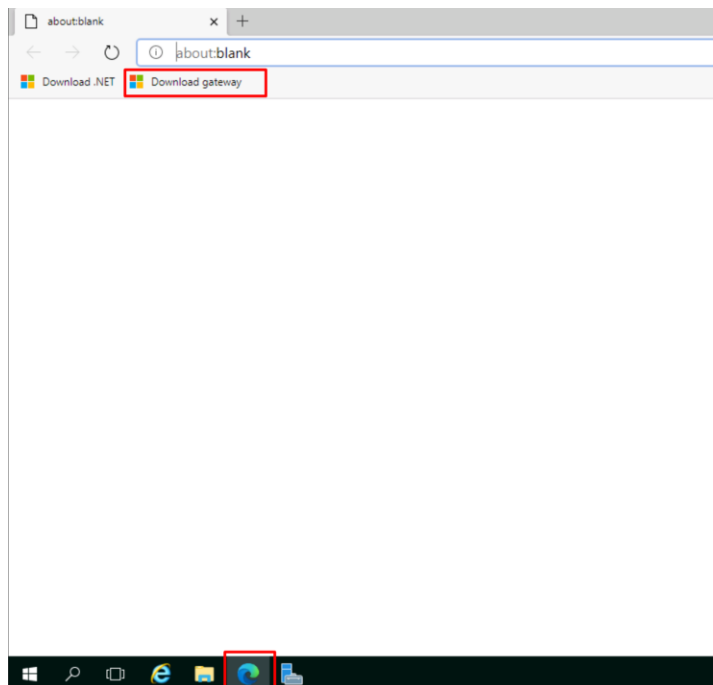
## Lab 1 - Install an on-premise data gateway

### Exercise 1 - Download and Install Data Gateway

1. Navigate to learn on demand virtual lab environment, at the resources tab, select **ContosoGateway** machine to download and install first data gateway cluster.



2. Click on the Ctrl+Alt+Delete button to unlock, then click on password to auto-type it.
3. Open the Edge browser already installed on this machine and navigate to the download gateway page.




4. Select download and save the installation file to a local folder.

### On-premises data gateway

*Important!* Selecting a language below will dynamically change the complete page content to that language.

Language: English Download

5. Run the Installation File.

 **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.

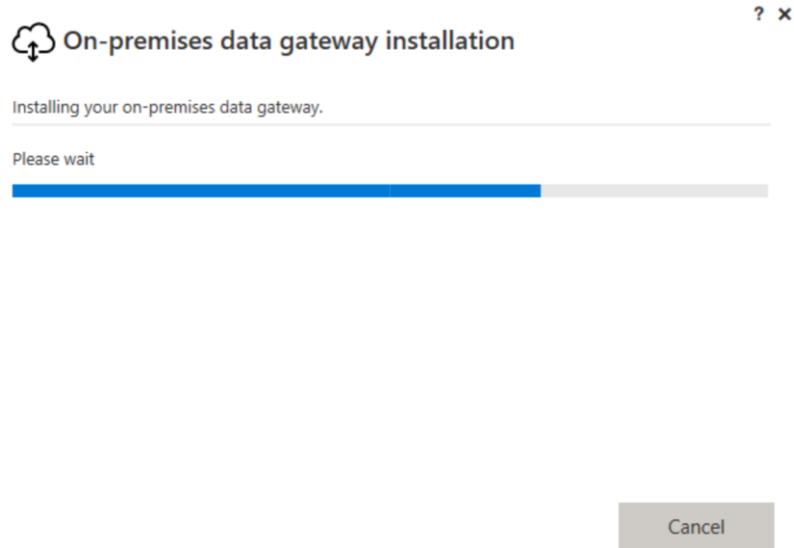
Install to

...

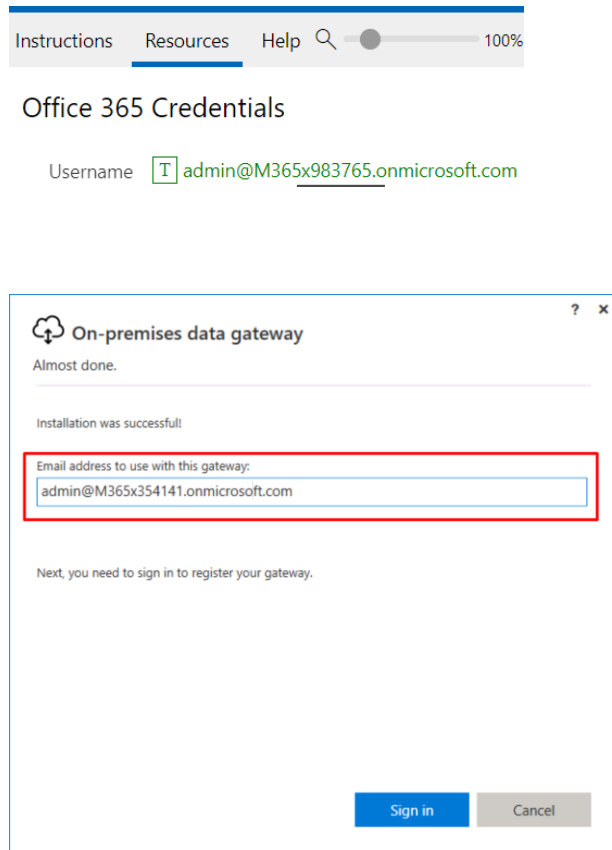
☒ I accept the [terms of use](#) and [privacy statement](#)

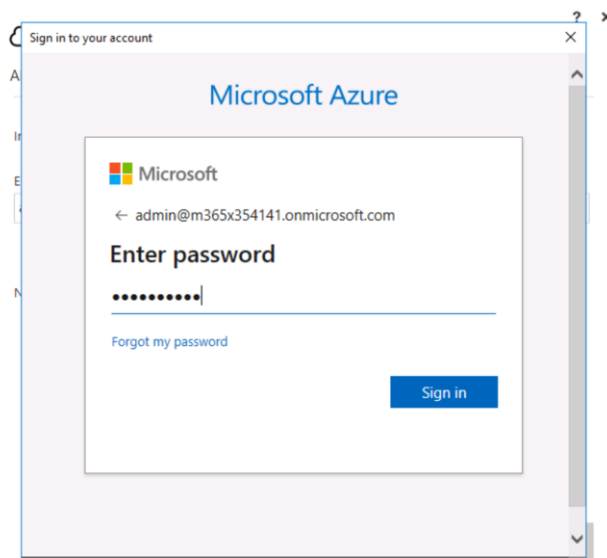
Install Close

- Review terms of use, then click Install.

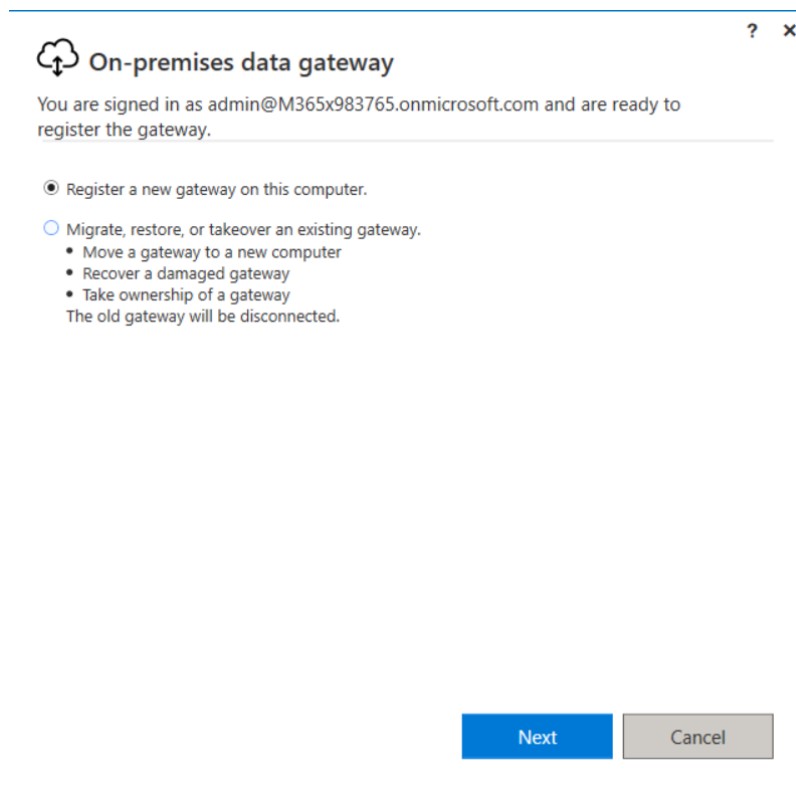


- Click on the Office 365 credentials username to type admin account, then sign in.





8. Register a new gateway on this computer, then click Next.



9. Type the data gateway name and recovery key, make sure that the selected data gateway region matches the targeted environment(s) region, by default the selected region will be AAD default region. Then click Configure.

On-premises data gateway

You are signed in as admin@M365x354141.onmicrosoft.com and are ready to register the gateway.

New on-premises data gateway name

ContosoOnPremiseDataGateway

☐ Add to an existing gateway cluster

Recovery key (8 character minimum)

\*\*\*\*\*

☐ This key is needed to restore the gateway and can't be changed. Record it in a safe place.

Confirm recovery key

\*\*\*\*\*

[Learn more about gateway clusters](#)

We'll use this region to connect the gateway to cloud services: West Europe [Change Region](#)

Configure

Cancel

10. Data gateway is configured and ready to be used.

On-premises data gateway

Status

Service Settings

Diagnostics

Network

Connectors

Recovery Keys

✓ The gateway ContosoOnPremiseDataGateway is online and ready to be used.

Gateway version number: 3000.68.15 (December 2020 (Release 3))

☒ Help us improve the on-premises data gateway by sending usage information to Microsoft.  
[Read the privacy statement online](#)

**Logic Apps, Azure Analysis Services**  
Central US

[Create a gateway in Azure](#)

**Power Apps, Power Automate**  
Central US

✓ Ready

**Power BI**  
Default environment

✓ Ready

Close

⋮

Contoso Electronics

Power Platform admin center

⚙️ ? MA

☰

Environments

Analytics

Resources

Help + support

Data integration

**Data (preview)**

Data policies

Admin centers

🔍 Manage gateway installers

📖 Get help

☰ On-premises data gateways

☰ Central US (Default)

🔍 Search

Tenant administration ☒ On

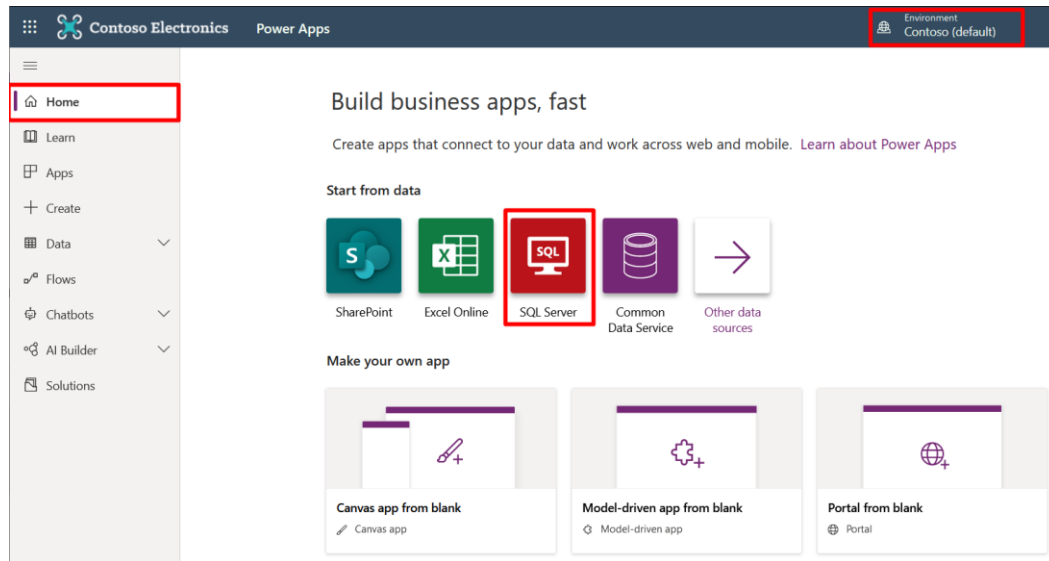
Data (preview)

The On-premises data gateway acts as a bridge, providing quick and secure data transfer between on-premises data and Power BI, Microsoft Flow, Logic Apps, and PowerApps. [Learn more in this overview.](#)

Gateway cluster name ↑	Contact info	Users	Status	Gateways
ContosoOnPremiseDataGateway	admin@M365x983765.onmicrosoft.com	MOD	🟡	1


## Exercise 2 - Build an app using On-premise data gateway

1. Navigate to <http://make.powerapps.com> then switch to the Contoso (default) environment.



2. From the Home tab, at the Start from data section, click on SQL Server connection.
3. A new tab will open, select Authentication Type: Windows Authentication.
4. Type the required connection information as shown below:
  - SQL server name: **ContosoSQL**
  - SQL database name: **AdventureWorks2017**
  - Username: **Administrator**
  - Password: password provided in virtual lab.
  - Choose a gateway: **ContosoOnPremiseDataGateway**
  - Then select **Create**.





## SQL Server

Premium

Microsoft SQL Server is a relational database management system developed by Microsoft. Connect to SQL Server to manage data. You can perform various actions such as create, update, get, and delete on rows in a table. [Learn more](#)

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Authentication Type

Windows Authentication

SQL server name \*

SQL database name \*

Username \*

Password \*

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Choose a gateway \*

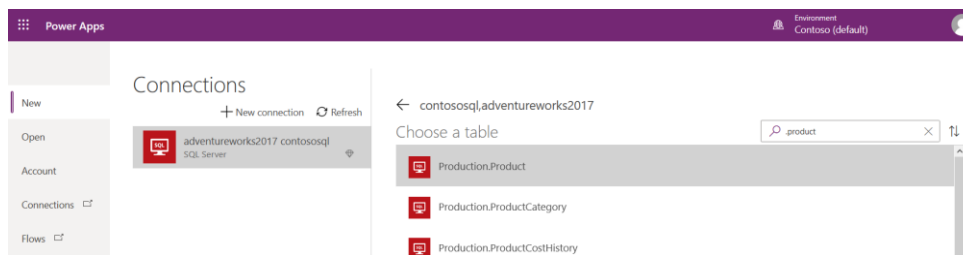
ContosoOnPremiseDataGateway

Refresh gateway list

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Create

- At the created connection, search for **Production.Product** table then select the table and click Connect.



- Power Apps will start creating an app managing all CRUD operations for the selected table using SQL server on-premises.
- Test the created app by adding, updating or viewing different products.

**NOTE:** Inserting new item does not work in this case as there is mandatory ROWGUID column in the table which is not available in the list of fields in PowerApps. To get insert working you need to add following formula to the OnSelect event of the EditScreen submit icon.

**NOTE 2** Paste this formula first to **Notepad** and then to PowerApps

```
If(EditForm1.Mode = FormMode.Edit,
  SubmitForm(EditForm1),
  Patch(
    '[Production].[Product]',
    Defaults('[Production].[Product]'),
    {
      FinishedGoodsFlag: DataCardValue10.Value,
      Name: DataCardValue13.Text,
      ProductNumber: DataCardValue14.Text,
      ReorderPoint: Value(DataCardValue15.Text),
      MakeFlag: DataCardValue12.Value,
      DaysToManufacture: Value(DataCardValue9.Text),
      ListPrice: Value(DataCardValue11.Text),
      ModifiedDate: DateValue1.SelectedDate,
      SellStartDate: DateValue1.SelectedDate,
      SafetyStockLevel: 1000,
      StandardCost: Value(DataCardValue11.Text),
      rowguid: GUID()
    }
  )
);
Navigate(BrowseScreen1, ScreenTransition.CoverRight)
```