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# Power BI Cloud

# Guide

<https://docs.microsoft.com/en-us/power-bi/>

<https://scaniaazureservices.sharepoint.com/sites/SelfServiceBI>



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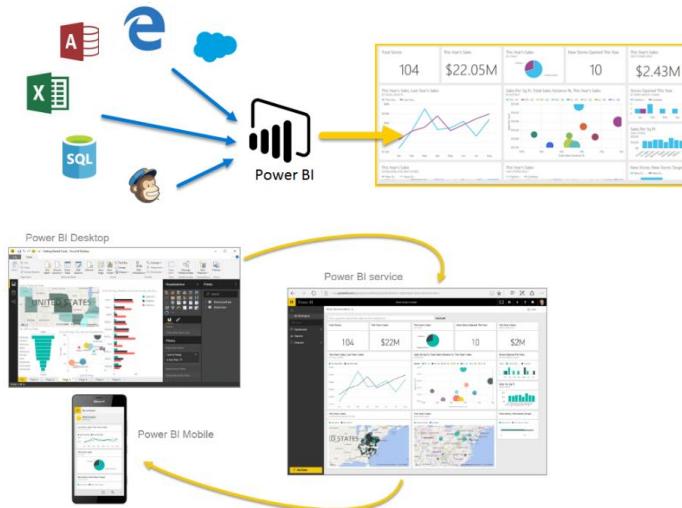
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# PowerBI

PowerBI is a business analytics service provided by Microsoft. It provides interactive visualizations with self-service business intelligence capabilities, where end users can create reports and dashboards by themselves, without having to depend on information technology staff or database administrators.

- We at Scania IT have chosen PowerBI as our strategic choice for creating BI-reports.
- It is well suited for self-service and has been developed from Excel and Power Pivot.
- To use PowerBI you need the Desktop software, it's free. This is where you connect to data sources and create reports. You will get a choice when you get your data, import or live connect this important from a security perspective.
- When you have created your report and would like to share it there are two ways to go. You can use our on Prem Report servers or use the cloud service. This is also important whether you import data or live connect. If you import data and save the report in the cloud, all data will be in the "pbix" file which is stored in Azure. Depending on the classification of the data it might be a risk for Scania.
- Since there are two different ways to publish there is also two different versions available in Order IT.
- If you would like to use the cloud service you need a pro license to be able to share your report, read the license and access section.





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# Introduction to Self Service

## General Info

Self-Service business intelligence(SSBI) is an approach to data analytics that enables business users to access and work with corporate data even though they do not have a background in statistical analysis, business intelligence (BI) or data mining.

Allowing end users to make decisions based on their own queries and analyses frees up the organization's business intelligence and information technology (IT) teams from creating the majority of reports and allows those teams to focus on other tasks that will help the organization reach its goals.

## Scania Info

We at the BI-department (BIAN) at Scania have been working to enable a wider level of self service BI to the Scania employees. We see this to become more data driven and allow users to access updated data from our common data warehouse and to create their own BI-solution.

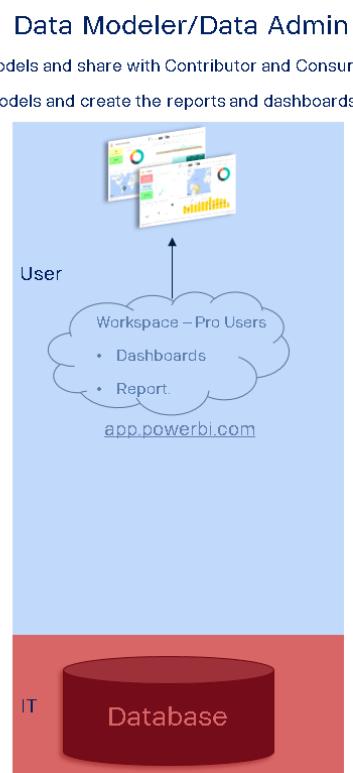
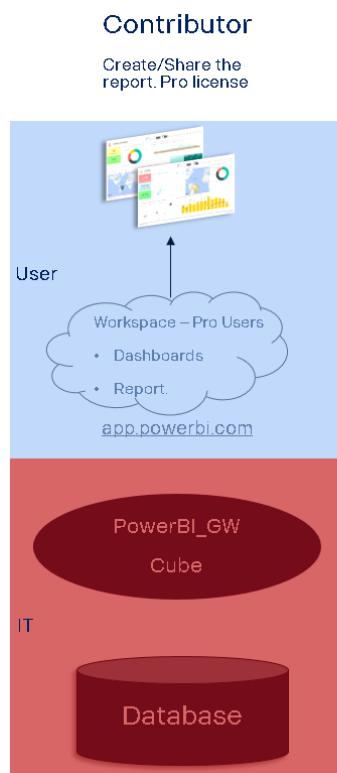
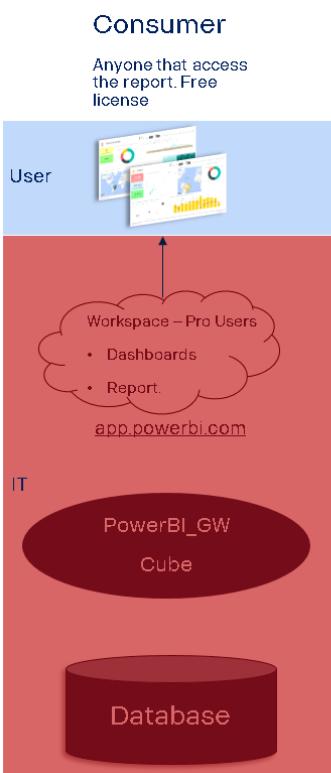
Self service BI does come with some challenges that we would like you to be aware of:

- Data awareness. Understand your data to avoid misguiding your users/managers. Before you start you need to make a risk evaluation IRAM.
- BI-Skills. You build it, you run it. We at BIAN cannot guarantee support for self service projects. If you want quality data, production stability and business critical reports you are welcome to initiate a project with us.

You are responsible for the data you are sharing in your reports. If you import your data in PowerBI reports consumers will be able to extract that data to excel.



# Self Service Levels



The user or AD group from Contributor, Data Modeler and Data Admin must be added on the data source database to create or share the reports to the cloud and it is being managed by Sweden.

GATEWAY CLUSTERS

- ✓ PowerBIGW\_Test
  - SCA\_SQL2016\_PV17\_SLSI\_TEST ▲
  - Herta3\_Dev
  - SESOCHO3305 SSAS\_Maximo
  - SCA\_SQL2016\_Master\_TST ▲
  - SESOCHO3305 SSAS\_Maximo - Work Order
- PEQUI
- SQL PBI
  - SCA\_SQL2016\_Master\_PRD ▲
  - SCA\_Folder\_FocusAreas ▲
  - SCA\_SQL2016\_CV17\_SLSI\_TEST ▲

Data Source Settings Users

People who can publish reports that use this data source

Enter email addresses

- Roberta Reis
- Carlos Eduardo Mendes Silva
- Marcius Yukio Nishida
- Andre Horvath Gomes



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# License and Access

These versions are for publishing reports in the cloud. For on prem you will only need the free desktop version.

## Free version (O365 E3)

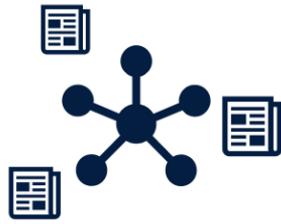
- Office 365 includes free version of Power BI.
- Allows you to consume reports shared with you.
- Create reports on My Workspace (unable to share).



Consume and create for self use

## PRO (est. 60 SEK/month)

- Allows you to create workspaces, reports and share with other Power BI PRO users.



Network with PRO-users and upload to workspaces

US\$6,60 per user

## Premium

- Central Scania capacity.
- Allows you to activate PRO users workspace to share with free users.



Create workspaces and activate workspaces

US\$4.200/Month for  
1500 users – US\$2,80  
300 users using this.  
[powerbi.support@scania.com](mailto:powerbi.support@scania.com)

All PowerBI license will be payed by Sweden so there is no cost for Brazil.

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# Ordering the PowerBI Pro Licence

- 1) Abrir a url

[http://orderit.scania.com/Site/PackageDetails\\_View.aspx?ProductId=PKG-1004](http://orderit.scania.com/Site/PackageDetails_View.aspx?ProductId=PKG-1004)

- 2) Clicar no botão Change:



- 3) Preencher o campo username informando o solicitante e clicar no botão Search:

The screenshot shows a 'Search User/Node' dialog box. In the 'User Name:' field, the value 'SSBECR' is entered and highlighted with a red box. To the right of the search form, there are fields for 'Node Name:', 'Last Name:', 'Department:', and 'Cost Centre:', each with their respective input boxes. Below the search form is a table titled 'Search Result (Click On Row To Select User)'. The table has columns: User Name, First Name, Last Name, Phone, E-mail Address, and Department. One row is visible, showing 'SSBECR' in the User Name column, 'Erica' in First Name, 'de Castro Rodrigues' in Last Name, '+551143448816' in Phone, 'Erica.Rodrigues@scania.com' in E-mail Address, and 'SFR' in Department. The 'Search' button at the bottom of the dialog box is also highlighted with a red box.

User Name	First Name	Last Name	Phone	E-mail Address	Department
SSBECR	Erica	de Castro Rodrigues	+551143448816	Erica.Rodrigues@scania.com	SFR

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4) Ao encontrar o nome completo da pessoa abaixo, clicar em cima dela:

**Search User/Node**

User Name: SSBECCR      Node Name:  ?

First Name:       Last Name:

E-mail Address:       Department:

Cost Centre :      

**Search Result (Click On Row To Select User)**

User Name	First Name	Last Name	Phone	E-mail Address	Department
SSBECCR	Erica	de Castro Rodrigues	+551143448816	Erica.Rodrigues@scania.com	SFR

1

5) Clicar em Add to Cart:

**Power BI Pro License**

[Back to search result](#) Applications -> Office Suite Software

Click image for enlarging view

One Time Cost : 0,00 SEK  
Monthly Cost : 60,00 SEK  
Consumption Cost : No

Quantity :

**Description**

The license includes:

- Share reports in the cloud environment
- Creating workspaces in app.powerbi.com
- Sharing Reports and Dashboards to Pro users and Free user, see note 2

**Note1** To create reports you need the Power BI desktop versions (there is two, on prem & cloud).

**Note2** To share with free users you need to have your workspace upgraded to premium (it's done by IXAA).

**Note3** IRAM (data security) is mandatory to upload data in Power BI.

6) Clicar em Checkout Order:



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The screenshot shows a web-based ordering system for Scania. At the top, there's a header with the Scania logo, the word "OrderIT", and various navigation links like "Product Catalogue", "Orders", "Settings", "Terms & Conditions", "Search for package", "Advanced Search", "News", "E-learning", "FAQ", and a user profile. Below the header, it says "Logged In: Marcus Yukio Nishida". The main area is titled "Shopping Cart For User : Erica De Castro Rodrigues". It displays a single item: "Power BI Pro License" with a quantity of 1, a one-time cost of 0,00 SEK, and a monthly cost of 60,00 SEK. There's a note below the item saying "This package is possible to customise". At the bottom, there are buttons for "Continue Shopping", "Update Quantity", and a green button with a red border labeled "Checkout Order". Other buttons at the bottom include "Save Cart", "Save as Template", "Apply Template", and "Empty Cart".

- 7) Preencher os campos em vermelho, no campo Approver selecionar sempre o primeiro que mostra na lista:

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**Checkout Order**

| Logged In: Ma

**Delivery Information >>****Confirm Order**

To fulfill your order you need to fill in the (\*) mandatory information below and verify the Delivery Address (Site and Building). When done, select "Next Step".

Order for : **Erica de Castro Rodrigues**

\* = Required

**User Information**

User Name:

Erica de Castro Rodrigues (SSBECR)

Workphone:

+551143448816

Name:

Erica de Castro Rodrigues

Mobile Phone:

Department:

SFR

E-mail Address:

Erica.Rodrigues@scania.com

**Node Name**

Node Name:

M14450

**Delivery Address** **Alternative Delivery Address ( To be used instead of your currently registered address , for example Satellite offices ).**

Site:

São Bernardo do Campo

Contact Phone:\*

+551143448816

Building:\*

P11-00

Floor:\*

zero

Order delivery note:  
  

This text will be printed on the address label  
as well on your invoice.  
The delivery company/supplier will not read  
this text (max 30 characters).

**Financial Approver Information \***

Approver:

Rodrigo Paschoal Ribeiro

Cost Center:

761

If you don't find your Financial Approver in the drop down list, [Click Here](#) to receive an expanded list of approvers for the cost center number.  
Note: List will show approvers for other companies/units if they use the same number.

8) E clicar em Next:

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**Add Order Status Recipients**

<input type="text"/>	
<input type="text"/>	
<input type="text"/>	

**Comment to Approver:**

Please note! This field is only to notify your approver to understand your specific reason for your order.

&lt;&lt; Previous

Next &gt;&gt;

Cancel

## 9) Clicar em Confirm Order:

**Checkout Order** | Logged In: **Marcius Yukio Nishi** Cancel

**Delivery information >>** **Confirm Order**

Please verify that the information below is correct and then select "Confirm Order" to submit your order. If you want to edit your order, select "Previous" to go back."

**Order For**

User Name:	SSBECR	<b>Ordered By</b>	User Name:	SSBMYN
Name:	Erica de Castro Rodrigues	Name:	Marcius Yukio Nishida	
VW ID:	WPBN15N	Department:	LITA	
Department:	SFR			
Workphone:	+551143448816			
Mobile Phone:				
E-mail Address:	Erica.Rodrigues@scania.com			

**Node Name**

Node Name	M14450
-----------	--------

**Delivery Address**

Site:	São Bernardo do Campo	<b>Order and Delivery Date</b>	Order Date: 01 Mar 2019
Building:	P11-00	Delivery Date:	The expected delivery date is set to within 1 working day after the approval(s)
Floor:	zero		
Contact Phone:	+551143448816		
Order delivery note:			

**Comments:**

**Packages In Order**

Product Id	Title	Quantity	One Time Cost	Monthly Cost	View Configuration	Status
PS0108-006	Power BI Pro License	1	0,00 SEK	60,00 SEK		
PS0108-006	New - Power BI Pro License		0,00 SEK	60,00 SEK		None

= This package is possible to customise

Total: **0,00 SEK** **60,00 SEK**

<< Previous Confirm Order



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- 10) Por fim será exibido a tela abaixo confirmando a solicitação e dois e-mails serão enviados, um confirmando o pedido e outro quando a licença for efetivada de fato e o usuário também recebe a cópia do email.

### RECEIPT

Your order has been submitted. Select "Back to Start Page" to get back to the start page. You will get e-mails about the status of the order and you can also find this information under the tab "Orders".

[Print](#)

**Order Id:**

OT000363444

**Order For**

User Name:	SSBECR
Name:	Erica de Castro Rodrigues
VW ID:	WPBN15N
Department:	SFR
Workphone:	+551143448816
Mobile Phone:	
E-mail Address:	Erica.Rodrigues@scania.com

**Ordered By**

User Name:	SSBMYN
Name:	Marcius Yukio Nishida
Department:	LITA

**Order and Delivery Date**

Order Date:	01 Mar 2019
Delivery Date:	The expected delivery date is set to within 1 working day after the approval(s)

**Node Name**

Node Name	M14450
-----------	--------

**Financial Approver Information**

User Name:	SSBRIB
Name:	Rodrigo Paschoal Ribeiro
Cost Center:	761
Department:	SFR

**Delivery Address**

Site:	São Bernardo do Campo
Building:	P11-00
Floor:	zero
Contact Phone:	+551143448816

Order delivery note:

**Package In Order**

Product Id	Title	Quantity	One Time Cost	Monthly Cost
PS0108-006	Power BI Pro License	1	0,00 SEK	60,00 SEK
PS0108-006	New - Power BI Pro License		0,00 SEK	60,00 SEK

= This package is possible to customise

Total: 0,00 SEK

60,00 SEK

**Comments**

[Print](#)



# Free vs Pro vs Premium

	Free	Pro	Premium
Must be on O365	Yes	Yes	Yes
Create Reports	Yes	Yes	Yes
Share Reports	No	Only with Pro	Free and Pro
DirectQuery or Live Connect	No	Yes	Yes
Workspace	No	Yes	Yes
Data Storage	1 Gb per user	10 Gb per user	100 Tb per user
Data Refreshes	8 per day	Up to 48 per day	unlimited
Larger Datasets	1Gb	1Gb	50Gb
Separate Resources	No	No	Yes

The diagram illustrates the Power BI interface, divided into two main sections: Power BI Desktop and Power BI Service.

**Power BI Desktop:** This section shows a central toolbar with various icons for tasks like getting data from sources, creating reports, and managing workspace layouts. Below the toolbar, there are three rows of features:

- Row 1: Get Data from 40+ Sources, Bookmarks, Quick Measures, New Tables, New Columns, Reports View, Filter & Sort in Data View.
- Row 2: Query Editor, Ask a question, New Measures, Themes, Desktop Layout, Tables View, Lock Objects.
- Row 3: Selections, Sync Slicers, What If Parameter, Roles, Phone Layout, Relationships View.

**Power BI Service:** This section is divided into three main levels: Free, Pro (0 - 500 Users), and Premium (500 + Users).

- Free:** Features include Ask a question about your data, Natural Language Query (Q&A), Microsoft SQL Server Reporting Services integration, Consuming live data sources (DirectQuery), Access Datasets in Power BI Service, Consuming Content that's scheduled to refresh hourly (Can schedule 8 refreshes), Consuming streaming data 1M rows/Hour, Control data access with RowLevel Security for Users & Groups, Publishing to Web, and Mobile Devices (iOS, Windows, Android).
- Pro (0 - 500 Users):** Features include Create, View & Share Personal Dashboards & Reports, SharePoint Modern Web Parts, Access On-Premise data using Personal or On-Premise Data Gateway, Persistent Filters, Custom Data Connectors, Apps & App Workspaces, Subscribe others to Dashboards & Reports (My Workspace & Apps), Create, publish & View Organizational Content Packs, Analyze in Excel, and Create, publish & View Organizational Content Packs.
- Premium (500 + Users):** Features include Dedicated Node Capacity, Incremental Refresh, 100TB of Storage for each Capacity Provisioned, Higher refresh rates up to 48 per day, Noisy Neighbour Isolation, Future Release, Pinning Datasets to Memory, Read-Only Replicas, Large datasets, Geographic Distribution, and Dedicated Data Refresh Nodes.



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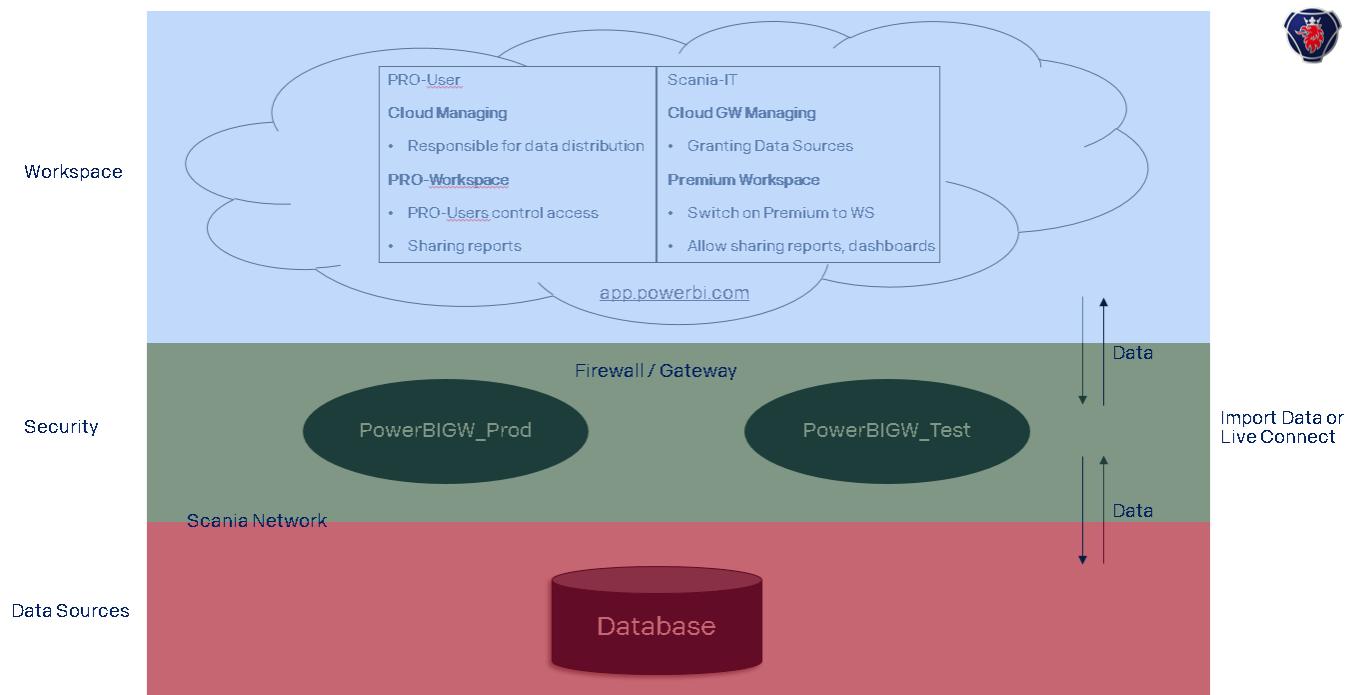
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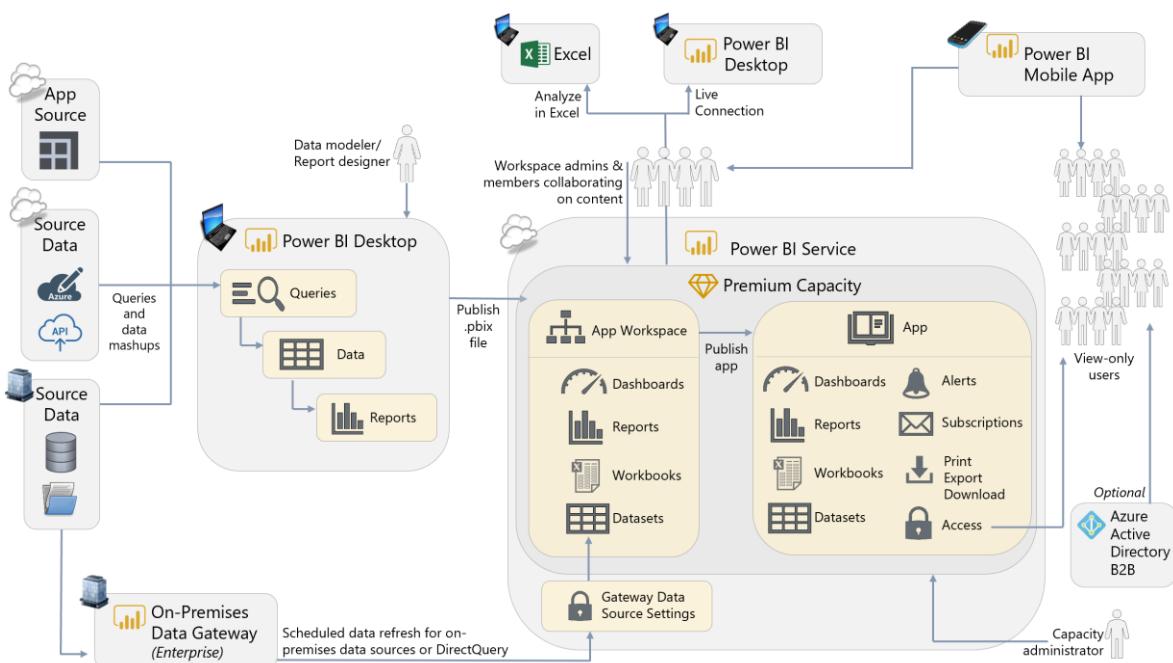
## Technical structure (cloud in Ireland)





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Databases from SLA that are available on the PowerBI and configured on the gateway

Database	Username	Description
Erere.br.scania.com	DW_MKSL	Data Warehouse – Production (current)
Franca.br.scania.com	USR_POWERBI	Data Warehouse – Production (new)
Fila.br.scania.com	USR_POWERBI	E-Business Suite – Production

PowerBI on the cloud: <https://app.powerbi.com>



# How gateway works

The gateway you install runs as a Windows service, **On-premises data gateway**. This local service is registered with the Gateway Cloud Service through Azure Service Bus. The following diagram shows the flow between on-premises data and the cloud services that use the gateway.



Queries and data flow:

1. A query is created by the cloud service with the encrypted credentials for the on-premises data source. It's then sent to a queue for the gateway to process.
2. The gateway cloud service analyzes the query and pushes the request to the Azure Service Bus.
3. The on-premises data gateway polls the Azure Service Bus for pending requests.
4. The gateway gets the query, decrypts the credentials, and connects to the data sources with those credentials.
5. The gateway sends the query to the data source for execution.
6. The results are sent from the data source, back to the gateway, and then onto the cloud service and your server.

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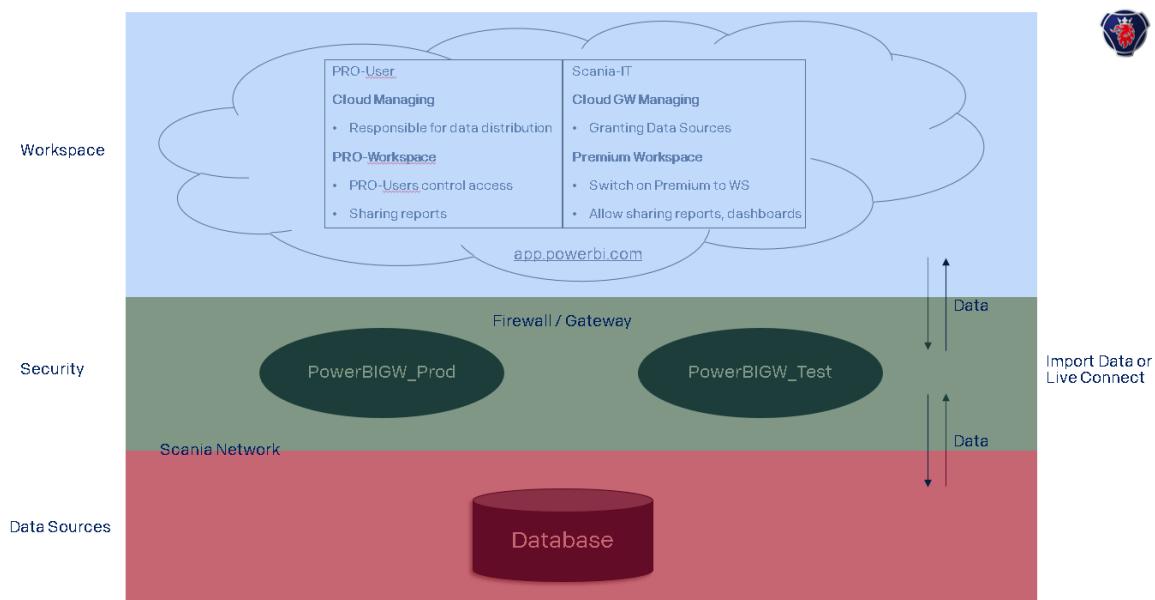
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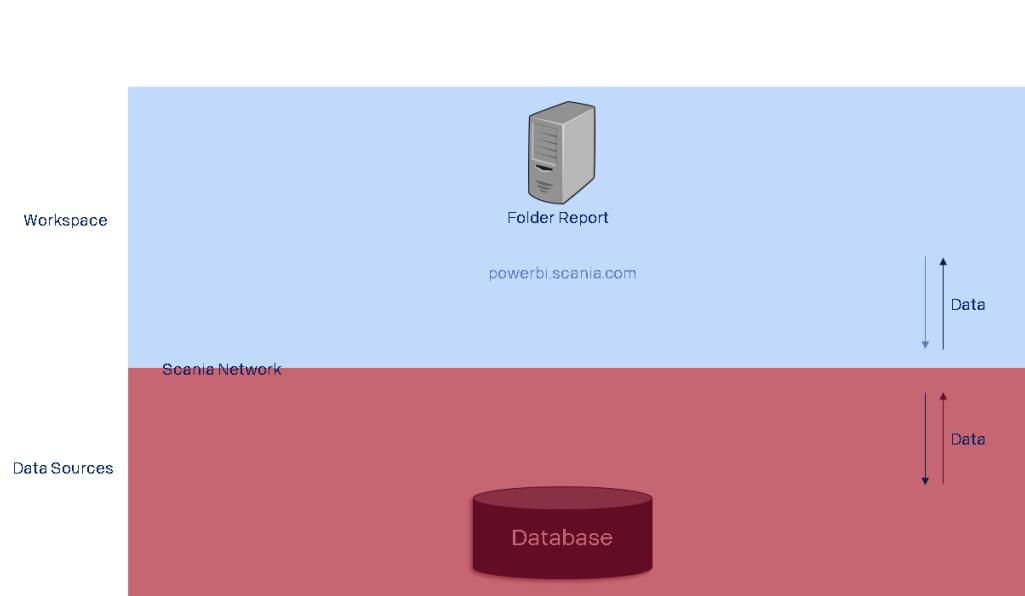
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# Architecture Cloud vs On Prem

## Cloud



## On Prem





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# Cloud vs On Prem

Features	Power BI Report Server	Power BI Service	Notes
Deployment	On-premises or hosted cloud	Cloud	Power BI Report Server can be deployed in Azure VMs (hosted cloud) if licensed through Power BI Premium
Source data	Cloud and/or on-premises	Cloud and/or on-premises	
License	Power BI Premium or SQL Server EE with SA	Power BI Pro and/or Power BI Premium	
Lifecycle	Modern lifecycle policy	Fully managed service	
Release cycle	Once every 4 months	Once a month	Latest features and fixes come to Power BI Service first. Most core functionality comes to Power BI Report Server in the next few releases; some features only meant for the Power BI service.
Create Power BI reports in Power BI Desktop	Yes	Yes	
Create Power BI reports in the browser	No	Yes	
Gateway required	No	Yes for on-premises data sources	
Real-time streaming	No	Yes	Real-time streaming in Power BI
Dashboards	No	Yes	Dashboards in the Power BI service
Distribute group of reports using apps	No	Yes	Create and publish apps with dashboards and reports
Content packs	No	Yes	Organizational content packs: Introduction
Connect to services like Salesforce	No	Yes	Connect to the services you use with the Power BI service
Q&A	No	Yes	Q&A in the Power BI service and Power BI Desktop
Quick insights	No	Yes	Automatically generate data insights with Power BI
Analyze in Excel	No	Yes	Analyze in Excel
Paginated reports	Yes	No	Paginated reports aren't available in the Power BI service, but you can pin paginated report items to Power BI dashboards
ARC GIS maps	No	Yes	ArcGIS maps in Power BI service and Power BI Desktop by Esri
Email subscriptions for Power BI reports	No	Yes	Subscribe to a report or dashboard in the Power BI service
Email subscriptions for paginated reports	Yes	No	E-Mail delivery in Reporting Services
Data alerts	No	Yes	Data alerts in the Power BI service
Row-level security	Only through data source in DirectQuery mode	Available in both DirectQuery (data source) & Import mode	Row-level security (RLS) with Power BI
Full screen mode	No	Yes	Full screen mode in the Power BI service
Advanced Office 365 collaboration	No	Yes	Collaborate in an app workspace with Office 365
R visuals	No	Yes	Create R visuals in the Power BI service
Preview features	No	Yes	Opt in for Power BI service preview features
Custom visuals	Yes	Yes	Custom visuals in Power BI
Power BI Desktop	Version optimized for Report Server, available for download with Report Server	Version optimized for Power BI Service, available from the Windows Store	Power BI Desktop for the report server
			Power BI Desktop for the Power BI service

<https://docs.microsoft.com/en-us/power-bi/report-server/compare-report-server-service>



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# Installation for PowerBi desktop

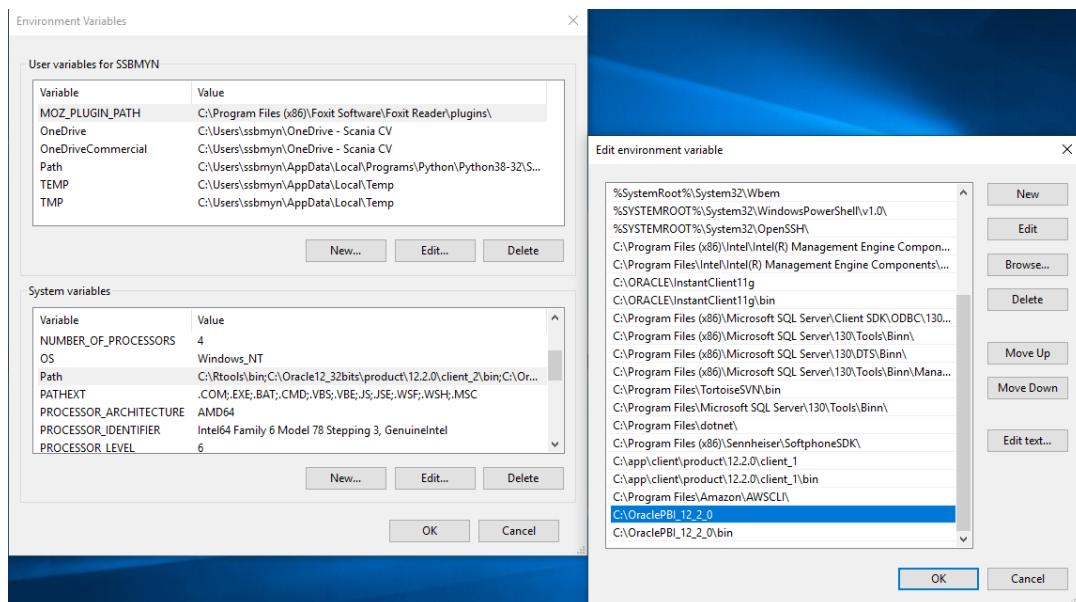
The installation's instruction of PowerBi(PBIDesktop\_x64) on the desktop is available on the link <https://docs.microsoft.com/en-us/power-bi/desktop-get-the-desktop>

The installation's instruction of Oracle Client is available on the link  
<https://docs.microsoft.com/en-us/power-bi/desktop-connect-oracle-database>

The files are available also in [\\tools\data\\$\Programs\ N-Z\PowerBI](\\tools\data$\Programs\ N-Z\PowerBI) or by Software Center

The Oracle Client driver can be installed following the steps below:

- 1) Copy all files from [\\brsanas01\public\\$\PowerBI\ODAC122010Xcopy\\_x64](\\brsanas01\public$\PowerBI\ODAC122010Xcopy_x64) to your C:\OraclePBI\_12\_2\_0
- 2) Open the cmd using ADM, if you are not ADM in your computer please call to costumer support;
- 3) In CMD run the command **install.bat all C:\OraclePBI\_12\_2\_0 odac**
- 4) In the final the folder should be created C:\OraclePBI\_12\_2\_0
- 5) Change your environment variable in the Path adding the folder C:\OraclePBI\_12\_2\_0 and C:\OraclePBI\_12\_2\_0\bin



- 6) Copy all files from [\\brsanas01\public\\$\PowerBI\Tns](\\brsanas01\public$\PowerBI\Tns) to the C:\OraclePBI\_12\_2\_0\network\admin

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# Data Security (cloud)

You are responsible for the data you are sharing in your reports. If you import your data in PowerBI reports consumers will be able to extract that data to excel.

So the recommendation is to check the information security with ISEC team and the process and documents of IRAM(Information Risk Analysis Method) are available on the links below:

<https://scaniaazureservices.sharepoint.com/sites/SelfServiceBI/SitePages/Files.aspx>

<https://inline.scania.com/scripts/cgiip.exe/WService=inline/cm/pub/showdoc.p?docfolderid=111686&docname=index>

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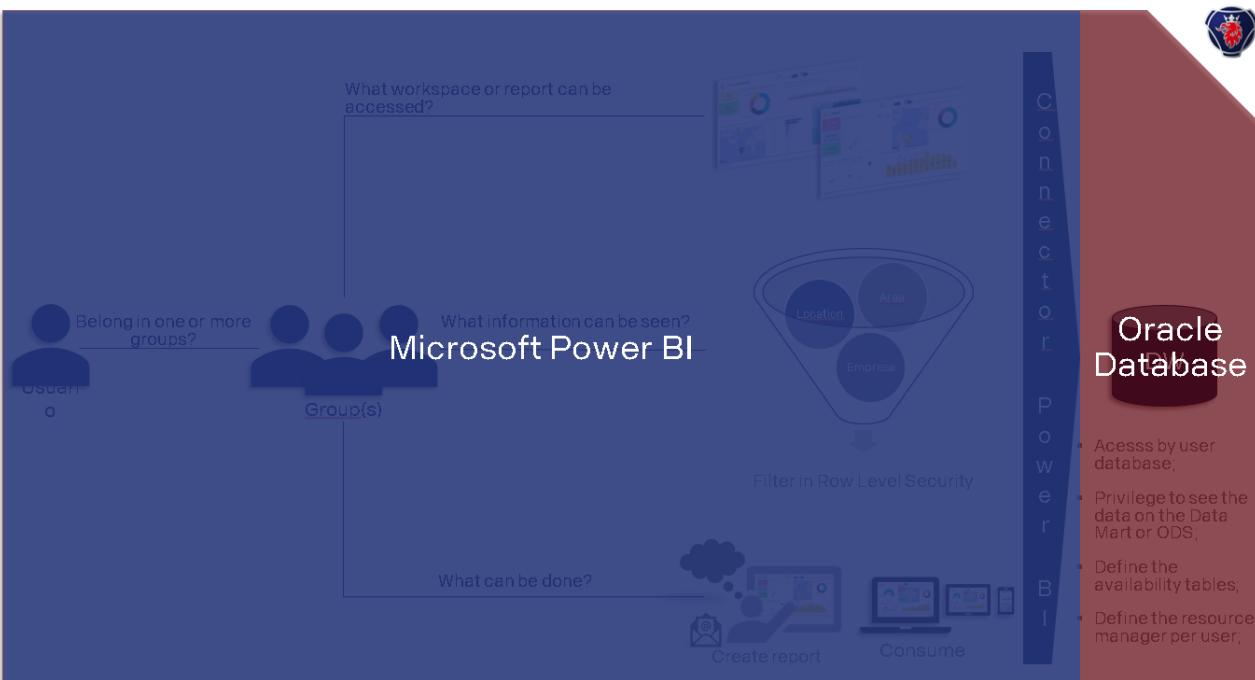
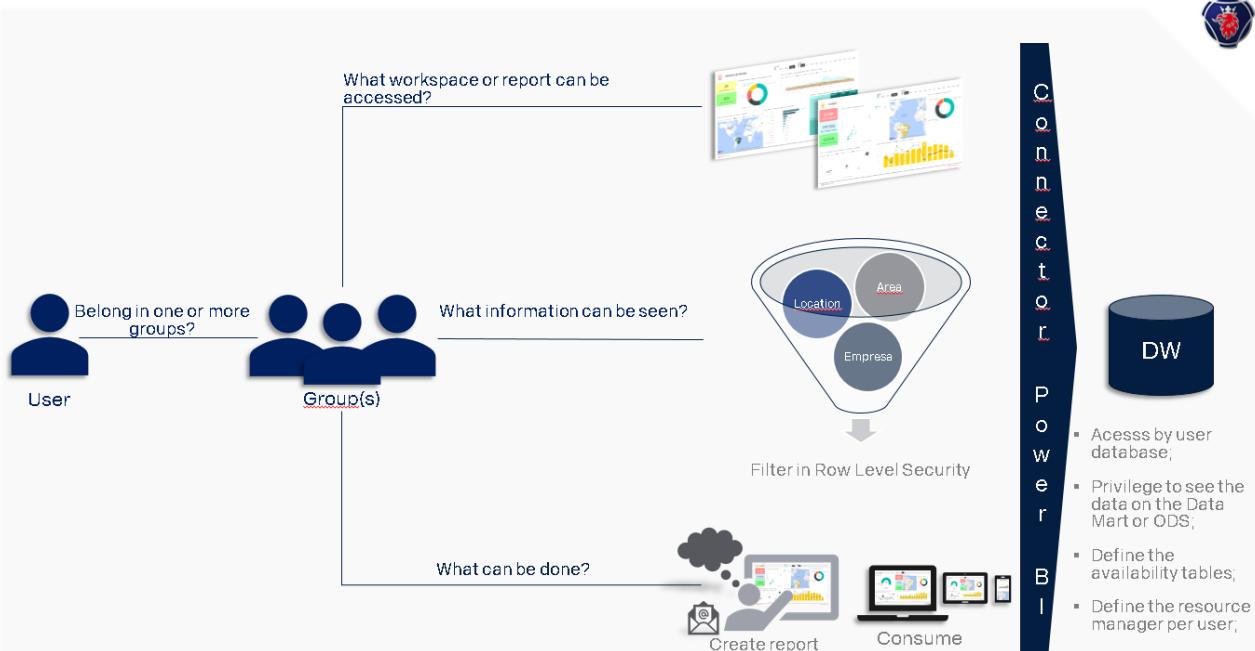
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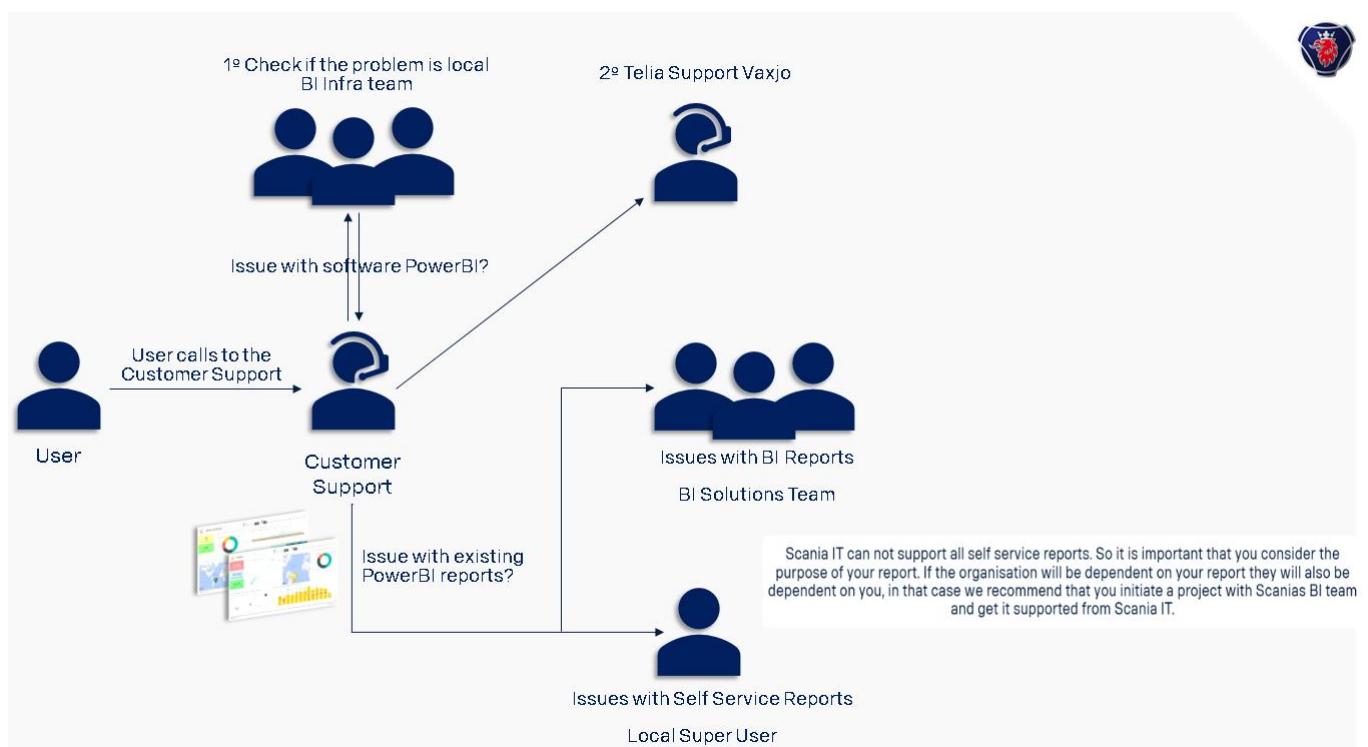
For information (department acronym name)

# Level Security





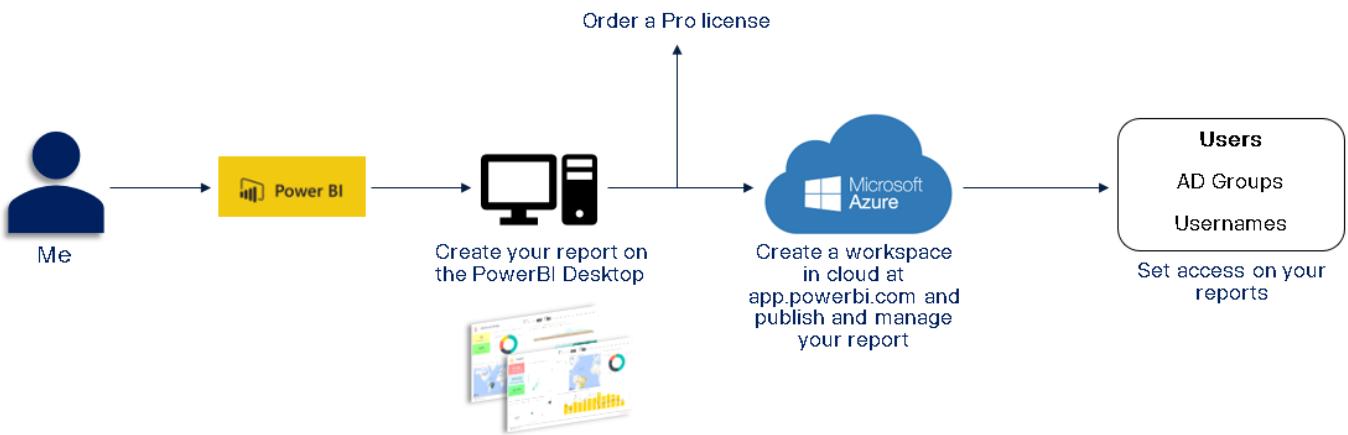
# Support



- When the issue is with PowerBI the BI infra team can check first and if the problem is related to the SAAS(PowerBI on Cloud Azure) so the support must be treated by Customer Support from Sweden but the SAAS is 24x7;
- The incident about infra can be redirected to the **AMS PowerBI Advanced Support Scania Latin America** group;
- The incident about reports developed by IT can be redirected to the their groups according to application;
- If the PowerBI report has been developed by Sweden redirect please the incident to the [powerbi.support@scania.com](mailto:powerbi.support@scania.com)



# Flow



- 1) User needs to know if the report will be shared or not:
  - a. if yes:
    - i. The data source(database) must be configured on the Gateway and it is handled by BI infra team;
    - ii. The username or AD Group from user must be added on the data source and it is handled by BI infra team;
    - iii. User needs to have the PRO license.
  - b. If no:
    - i. No activity to do because the user will work in stand-alone mode.
- 2) User open the PowerBI desktop using the O365 credential and create the report;
- 3) User open the PowerBI in cloud by <https://app.powerbi.com> and create a workspace with a name;
- 4) In PowerBI desktop the user publishes the report choosing the workspace created on the cloud;
- 5) In PowerBI cloud the user can set the permissions and who(username or AD group) can access the report;
- 6) That report can be accessed by mobile also using the PowerBI software in IOS or Android.



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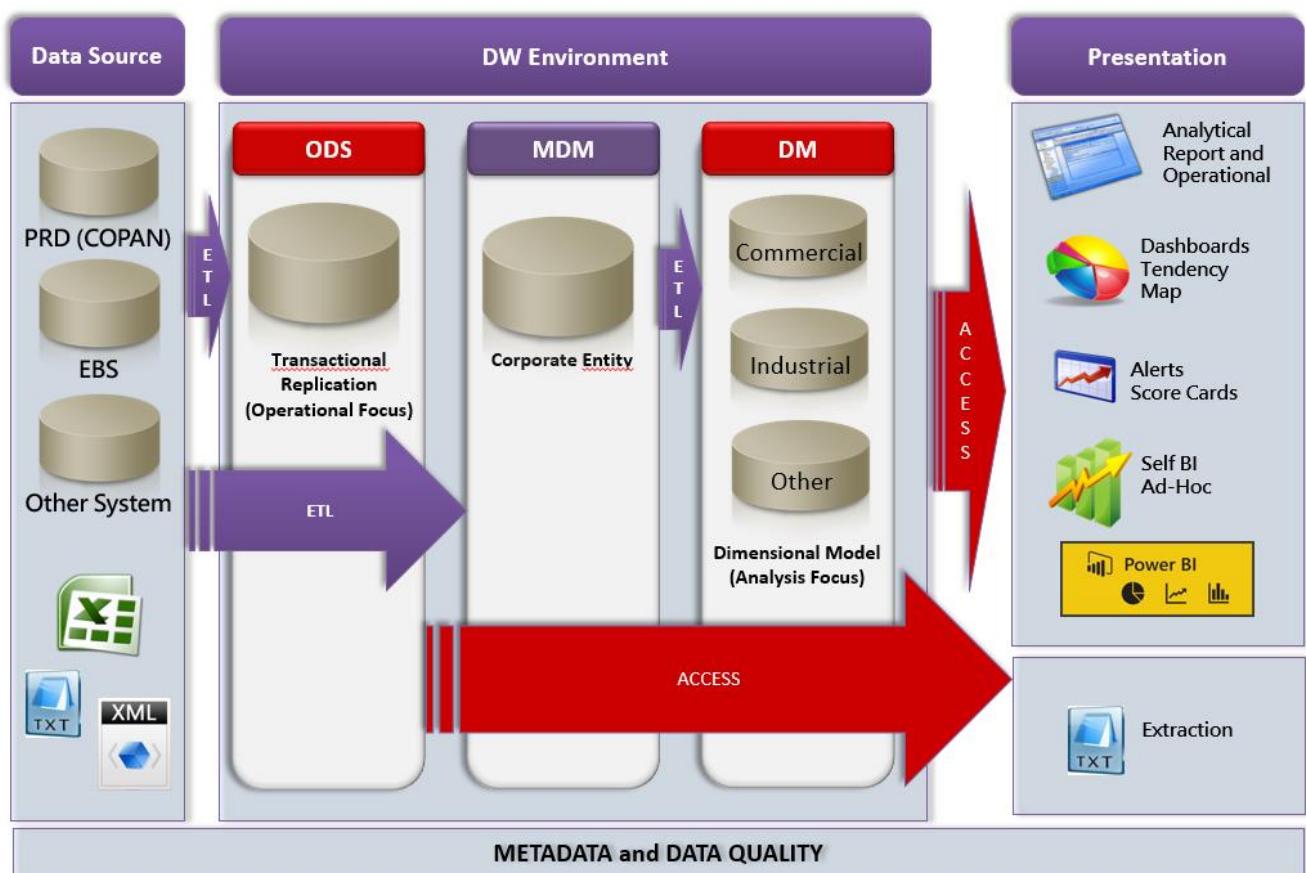
# Education

Tips and demos to improve your BI-Skills:

- Get started with PowerBI guide: <https://docs.microsoft.com/en-us/power-bi/service-get-started>
- PowerBI Youtube channel with guides: <https://www.youtube.com/user/mspowerbi>
- PowerBI tutorial: <https://www.youtube.com/watch?v=qqO0EiCn4cY>
- Tutorial
  - <https://docs.microsoft.com/pt-br/power-bi/service-connect-to-services>
  - <https://docs.microsoft.com/pt-br/power-bi/sample-tutorial-connect-to-the-samples>
  - <https://docs.microsoft.com/pt-br/power-bi/desktop-getting-started>
- Self Learning
  - <https://docs.microsoft.com/pt-br/power-bi/guided-learning/>
  - <https://docs.microsoft.com/pt-br/power-bi/guided-learning/gettingstarted>
  - <https://powerbi.microsoft.com/pt-br/learning/>
- Demo
  - <\\global.scd.scania.com\proj\ Public\PowerBI\Demo 20171024>
  - <https://app.powerbi.com/groups/me/reports/3b7cd9fd-f06f-4cb6-9e4d-f0ea7b68af0d?ctid=3bc062e4-ac9d-4c17-b4dd-3aad637ff1ac>
- Dashboards in Zwolle
  - <https://pages.github.scania.com/ScaniaNL/PowerBI-dashboards/>
  - <https://pages.github.scania.com/ScaniaNL/PowerBI-KB/>
- PowerBI On Prem in development environment
  - [http://powerbi\\_dev.scania.com/reports](http://powerbi_dev.scania.com/reports)
- Internal Education at Scania – call to SSBKLO or SSBKLD or by link  
<https://scania.csod.com/LMS/LoDetails/DetailsLo.aspx?loid=210f36fe-6d8e-4204-8d9c-f27a04554054&query=?q=Power%20BI#t=3>



# Reference Architecture





# Step by Step

- 1) Open the PowerBi and click on the Get Data;

The screenshot shows the 'Obter Dados' (Get Data) dialog box in Power BI. On the left, there's a sidebar with categories: 'Tudo' (selected), 'Ficheiro', 'Base de Dados', 'Power BI', 'Azure', 'Serviços Online', and 'Outras'. The main area lists data sources under 'Tudo':

- Excel
- Texto/CSV
- XML
- JSON
- Pasta
- Pasta do SharePoint
- Base de dados do SQL Server
- Base de dados do Access
- Base de dados do SQL Server Analysis Services
- Oracle Database
- Base de dados DB2 da IBM
- Base de dados IBM Informix (Beta)
- IBM Netezza
- Base de dados MySQL
- Base de dados PostgreSQL
- Base de dados Sybase

At the bottom, there are links for 'Conectores Certificados' (Certified Connectors) and buttons for 'Ligar' (Connect) and 'Cancelar' (Cancel).

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- 2) Inform the database name, the connectivity mode if is import data or live connect and the query string;

Oracle Database

Servidor  
erere.br.scania.com

Modo de Conectividade de Dados ⓘ  
 Importar  
 DirectQuery

▲ Opções avançadas  
Tempo limite do comando em minutos (opcional)  
[ ]

Instrução SQL (opcional)  
select count(\*) from PowerBI\_test|

Incluir colunas de relação  
 Navegar utilizando hierarquia completa

OK Cancelar

Import Data means the data will be stored on the Pbix file so the performance will be faster than Direct Query and the refresh is only on the new data.

Direct Query(live connect) means the data will not be stored on the Pbix file so the performance will be slower than Import Data and the query will be executed in runtime. That mode is recommended by ISEC when the report is used on the cloud.

- 3) The information is showed:



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The screenshot shows a Power BI report window titled "erere.br.scania.com". Inside the report, there is a single value card with the text "COUNT(\*)" above a line and "20" below it. At the bottom of the report window, there are three buttons: "Carregar" (Load) in yellow, "Editar" (Edit) in grey, and "Cancelar" (Cancel) in grey.

- 4) Develop a report to show the data saving on the Pbix file:



- 5) Open the PowerBi on the cloud and create a workspace:



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## Create an app workspace

Name your workspace

PowerBI\_Test

Workspace ID

powerbi\_test

Available

Private - Only approved members can see what's inside

Members can edit Power BI content

Add workspace members

Enter email addresses

**Add**

- 6) Publish your report on the cloud choosing that workspace:



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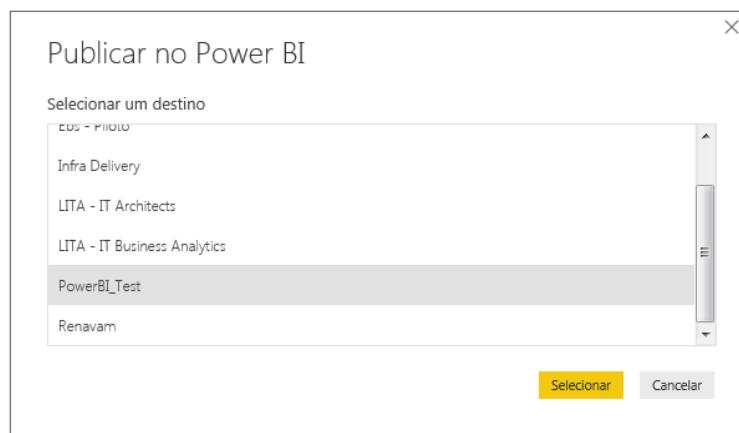
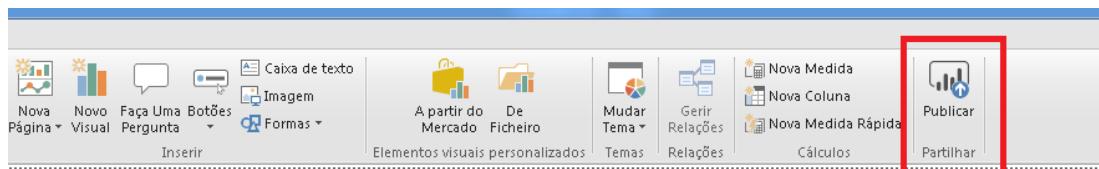
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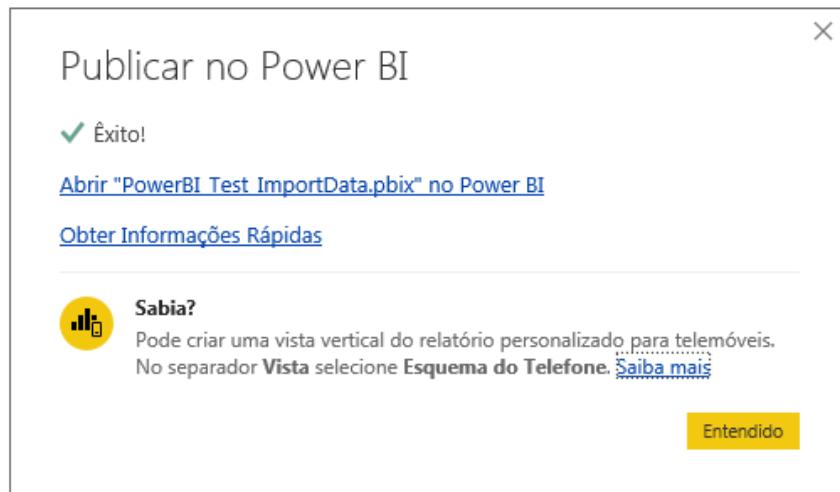
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7) Report published:

COUNT(\*)  
20,00



8) Report opened on the cloud:



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The screenshot shows the Power BI web interface. The left sidebar includes links for Home (preview), Favorites, Recent, Apps, Shared with me, Workspaces, and the current workspace, PowerBI\_Test. The main area displays a report section with a single metric card showing 'COUNT(\*)' with a value of '20.00'.

## 9) Know the datasets configuration:

The screenshot shows the 'Datasets' tab in the Power BI web interface. A single dataset, 'PowerBI\_Test\_ImportData', is listed. It was last refreshed on 10/16/2018, 2:31:54 PM, and has N/A for the next refresh. There is no API access listed.

## 10) What gateway your dataset is:

The screenshot shows the 'General' tab selected in the dataset settings. The dataset is named 'PowerBI\_Test\_ImportData'. It has been configured by 'Marcius.Nishida@scania.com'. The last refresh succeeded on Tuesday, October 16, 2018, at 14:31:54 GMT-0300 (Brasilia Standard Time). The 'Gateway connection' section shows a single gateway named 'PowerBIGW\_Prod' which is running on 'SESOCO3418'. A note indicates there are no personal gateways installed, with a link to 'Learn more' and a yellow 'Install now' button. Buttons for 'Apply' and 'Discard' are at the bottom.

## 11) Configure the refresh:

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[General](#) [Dashboards](#) **Datasets** [Workbooks](#) [Alerts](#) [Subscriptions](#)

### Settings for PowerBI\_Test\_ImportData

**PowerBI\_Test\_ImportData**This dataset has been configured by [Marcius.Nishida@scania.com](mailto:Marcius.Nishida@scania.com).Last refresh succeeded: Tue Oct 16 2018 14:31:54 GMT-0300 (Brasilia Standard Time)  
[Refresh history](#)

► Gateway connection

► Data source credentials

► Parameters

► Scheduled refresh

Keep your data up to date

 On

Refresh frequency

 Daily ▾

Time zone

 (UTC-03:00) Brasilia ▾

Time

 1 ▾ 00 ▾ AM ▾ X[Add another time](#) Send refresh failure notification email to me Apply Discard

12) Sharing the report to the AD group and handling the permission:



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## Share report

RENAVAM\_IMPORTDATA

[Share](#) [Access](#)

Only users with Power BI Pro will have access to this report. Recipients will have the same access as you unless row-level security on the dataset further restricts them. [Learn more](#)

Grant access to

BRSA\_BI\_BUSINESS\_ANALYSIS Enter email addresses

Include an optional message...

 Allow recipients to share your report Send email notification to recipients

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## Share report

SCANIA\_PILOTO\_RENAVAM\_V04

Share    Access

The following have access to this report



Search

NAME	ACCESS	...
Renavam	Owner	
Carlos Eduardo Mendes Silva	Read and reshare	...
Ildo Leite Junior	Read	...
Daniel do Nascimento Santos	Read and reshare	...
Marcius Yukio Nishida	Read and reshare	...
Albert Mattos dos Santos	Read and reshare	...
BRSA_BI_BUSINESS_ANALYSIS	Read and reshare	...
Pending requests for access ⓘ	Read	
	Read and reshare	
	Remove access	
<a href="#">Manage permissions</a>		
<a href="#">Manage shared report views</a>		



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**13) Changing the permission on the workspace:****Edit workspace**

Name

Privacy

Private - Only approved members can see what's inside

Members can edit Power BI content

Members can edit Power BI content

Members can only view Power BI content

Enter email addresses

Add

marcius.nishida@scania.com	Admin	▼	■
marcus.wadas@scania.com	Member	▼	■

Advanced ▾



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# Responsibilities

	Consumer	Contributor	DataModeler/Admin	PowerBI Developer	Infra
<b>PowerBI Platform</b>	No	No	No	No	Yes
<b>License</b>	No	No	No	No	Yes
<b>Configure the databases on the Gateway</b>	No	No	No	No	Yes
<b>Data Modeling in PowerBI</b>	No	No	Yes	Yes	No
<b>Create Report</b>	No	Yes	Yes	Yes	No
<b>Create Workspace</b>	No	Yes	Yes	Yes	No
<b>Create AD group</b>	No	No	Yes	Yes	Yes
<b>Define the permission on the Workspace</b>	No	Yes	Yes	Yes	No
<b>Publish Report to Workspace</b>	No	Yes	Yes	Yes	No
<b>Set permission on the report</b>	No	Yes	Yes	Yes	No
<b>Configure the refresh on the dataset</b>	No	Yes	Yes	Yes	No
<b>Access Report</b>	Yes	Yes	Yes	Yes	Yes

The activities and responsibilities must be discussed on the Bian group.

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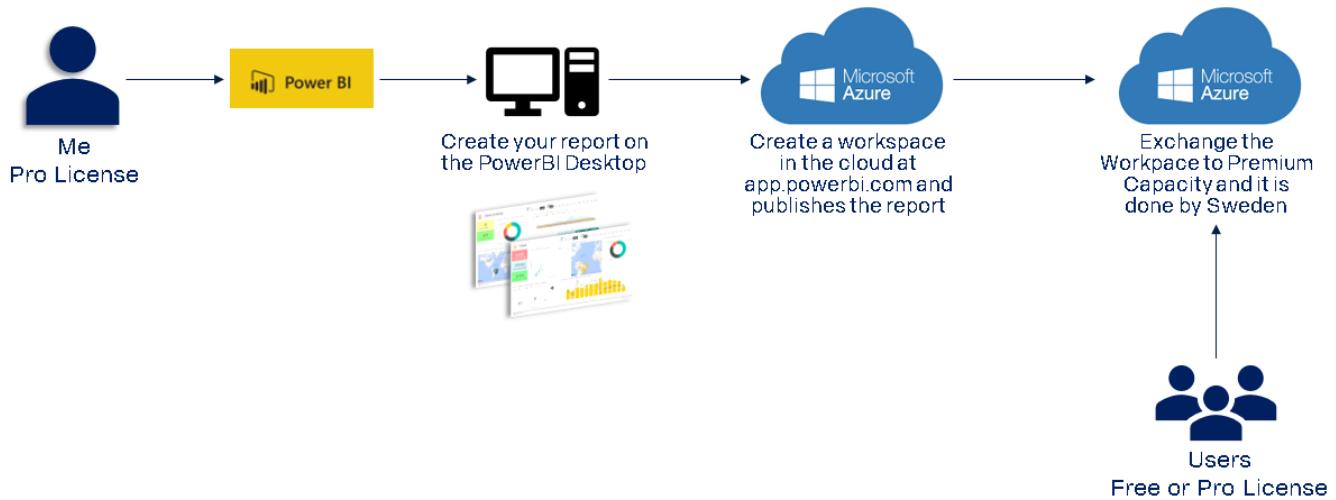
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# Workspace Premium Capacity

The workspace with Premium Capacity has some features more according to page 8 and when a report is published on that workspace do not need to have the PRO license.

So it is recommended to share the reports for users no Scania like dealers and the exchange from normal workspace to premium is done by Scania IT in Sweden.



When the report will be shared just inform a mail(live hotmail, gmail, e.g) and the user will use that mail on the PowerBi(<https://app.powerbi.com>)



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# PowerBI folder on the Cloud

The PowerBI folder(global\servicepowerbisla) is configured to use in SLA where you can use any files as data source in your report in the cloud scheduling the refresh every time so when the file will be updated the report data in the cloud will be refreshed automatically.

## Data Source Settings      Users

✓ Connection Successful

Data Source Name

PowerBI Folder SLA

Data Source Type

Folder

Full path

\bfsafs03\powerbi\$

The credentials are encrypted using the key stored on-premises on the gateway server. [Learn more](#)

Windows username

.....

Windows password

.....

>Advanced settings

The step by step to use that functionality is:



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- 1) The files that will be used as data source must be saved on the share [\\brsafs03\powerbi\\\$](\\brsafs03\powerbi\$) but you need to order access before by ACI - <https://aci.br.scania.com/site>
- 2) Choose the option 1 – Request access to a folder or share:

## SCANIA Access Control IT

[Home](#) |

### ACI How can Access Control IT help you today?

#### We suggest the following:

##### 0 [Request access to an application](#)

Click here if you want to request access to an application to yourself or other users.

##### 1 [Request access to a folder or share](#)

Click here if you want to request access to a shared network folder to yourself or other users.

##### 2 [Follow-up](#)

Do you want to see the *current status* of a request? Click here then, and you'll be able to do it.

##### 3 [Services](#)

- \* Remote access (SMS)
- \* Skype for Business (Lync)
- \* Admin Access on Workstation

##### 4 [Revoke access](#)

An user has left the company or changed his position? If so click here!

##### 5 [Approval](#)

There are no pending approvals.

##### 6 [Execution](#)

Click here to see the executions that are pending. You have: 124

##### 7 [Network user](#)

Click here to create a network user account to a new employee, third party or administrator or service account.

##### 8 [Network items](#)

- \* Create outlook account
- \* Create a shared email address
- \* Create an email distribution list
- \* Create meeting room/resource

##### 9 [Access Revision and Reports](#)

- \* Application by user
- \* User by application
- \* Detailed Access Report

##### 10 [Request Access to Server](#)

- \* Windows
- \* Linux

- 3) Inform the username that will receive the access, press ADD button and press after the “I’m done selecting users” button:

**Server**

REQUEST ACCESS TO A NETWORK SHARE

The access will be requested to which user(s) ?

(Inform user name separated by commas)

(Selected user(s): 0)

	User name	Full name
--	-----------	-----------



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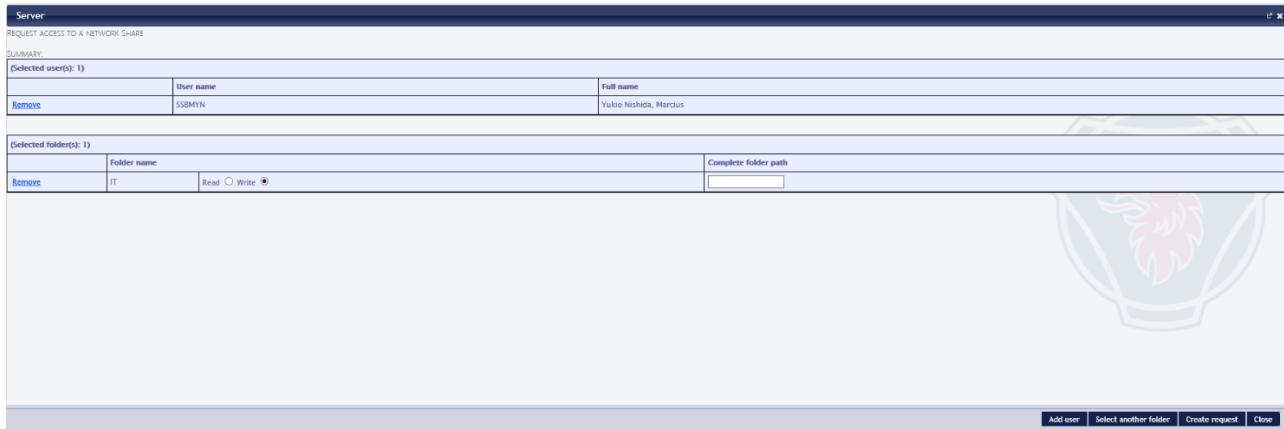
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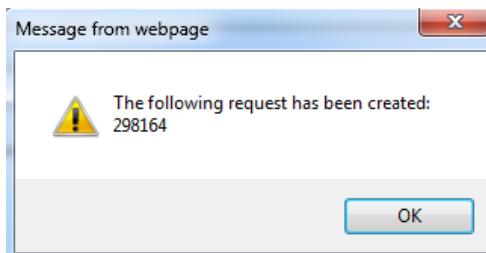
- 4) Choose the Brasil Market, the PowerBI\$ share, select the folder that you want to access and each folder has a responsible to approval and press the continue button:



- 5) Check if the request is OK then press the “Create Request” button:



- 6) The message will be showed with your request number:



- 7) Open a request by Jira for the group **POWER BI - Platform (POWERBI)** ordering permission on the data source **PowerBI Folder SLA**;



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- 8) When your ACI request will be finished the save your file on the share for example [\\brsafs03\powerbi\\$\it](\\brsafs03\powerbi\$\it);
- 9) Create your PowerBI report using that file keeping the folder [\\brsafs03\powerbi\\$](\\brsafs03\powerbi$) and publish to the cloud;
- 10) Configure the your dataset on the cloud and turn-on the gateway connection:

#### Settings for Test

This dataset has been configured by [Marcius.Nishida@scania.com](mailto:Marcius.Nishida@scania.com).

Last refresh succeeded: Wed Apr 03 2019 13:14:50 GMT-0300 (Brasilia Standard Time)

Next refresh: Thu Apr 04 2019 11:00:00 GMT-0300 (Brasilia Standard Time)

[Refresh history](#)

#### ▲ Gateway connection

To use a data gateway, make sure the computer is online and the data source is added in [Manage Gateways](#).

Use a data gateway

On

Gateway	Department	Contact information	Status	Actions
PowerBIGW_Prod		powerbi.support@scani...	Running on SESOCO3418	

⚠ You have no personal gateways installed. [Learn more](#)

[Install now](#)

[Apply](#)

[Discard](#)

- 11) Schedule the time to refresh:



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## ► Scheduled refresh

Keep your data up to date



Refresh frequency

Daily ▾

Time zone

(UTC-03:00) Brasilia ▾

Time

11 ▾ 00 ▾ AM ▾ X

11 ▾ 30 ▾ AM ▾ X

1 ▾ 00 ▾ PM ▾ X

[Add another time](#) Send refresh failure notification emails to me

# Using Microsoft Flow with PowerBI

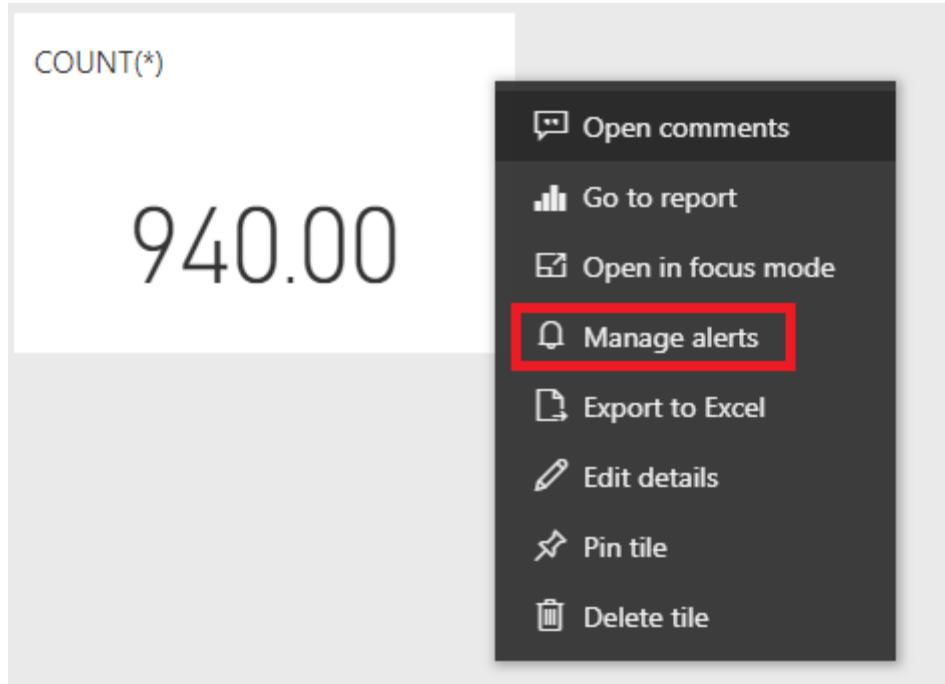
Microsoft Flow is cloud-based software that allows employees to create and automate workflows and tasks across multiple applications and services without help from developers. Automated workflows are called flows. To create a flow, the user specifies what action should take place when a specific event occurs.

Once a flow is built, it can be managed on the desktop or through an app on a mobile device. Flow integrates with various Microsoft services and apps, including Power BI, PowerApps, Dynamics 365 and Office 365.

That tool is available in <https://emea.flow.microsoft.com/en-us/>

An example below was a flow created to collect data from PowerBI and if the KPIs reaches a number then a mail will be sent.

- 1) Configure an alert in PowerBI that you want it, more details you can see by <https://docs.microsoft.com/en-gb/powerapps/maker/canvas-apps/sharepoint-scenario-alerts-flow> :





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- 2) On Manage Alerts screen choose the field the fill the condition that the alert must be sent. In that example the number is 940 and the condition is above 950.

COUNT(\*)

## Manage alerts

[+ Add alert rule](#)

^ Alert for COUNT(\*)

Active  On

Alert title

Set alerts rule for

Condition	Threshold
Above	950

Maximum notification frequency

At most every 24 hours  
 At most once an hour

Alerts are only sent if your data changes.

By default, you'll receive notifications on the service in the notification center.

Send me email, too

[Use Microsoft Flow to trigger additional actions](#)

[Save and close](#) [Cancel](#)



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- 3) Open the Microsoft Flow by URL <https://emea.flow.microsoft.com/en-us/> and create a flow pushing the Create button:

The screenshot shows the Microsoft Flow interface. At the top, there's a header bar with the title 'Automate processes + tasks | Mic' and a search bar containing 'emea.flow.microsoft.com/en-us/'. Below the header is a navigation bar with links for 'Apps', 'Open in Power BI s...', 'LITA Portal', 'Google', and 'Flow'. The main area has a dark header with the word 'Flow'. On the left, there's a sidebar with a list of options: Home, Approvals, My flows, Create (which is highlighted with a red box), Templates, Connectors, Data, AI Builder (preview), Solutions, and Learn.

- 4) Select the connector to start and in that case is PowerBI:



- 5) Choose the PowerBI and the Alert id created on the step 2:

This screenshot shows a step configuration in Microsoft Flow. The step is titled 'When a data driven alert is triggered (Preview)'. It has a yellow border. Inside, there's a section labeled '\*Alert Id' with a dropdown menu showing 'The alert id to track.' and 'Alert for COUNT(\*)'. Below that is a field 'Enter custom value'. At the bottom are two buttons: '+ New step' and 'Save'.

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- 6) Choose the Outlook connector to send the mail where you can configure the To, Subject and the Body:

The screenshot shows the configuration of a 'Send an email 2' step in Microsoft Flow. The step is triggered by 'When a data driven alert is triggered (Preview)'. The recipient is set to 'marcius.nishida@scania.com', the subject is 'KPI Count.', and the body is 'Testing the Microsoft Flow.' There are 'Show advanced options' and 'Save' buttons at the bottom.

- 7) When the alert reached above 950 the mail has been sent:

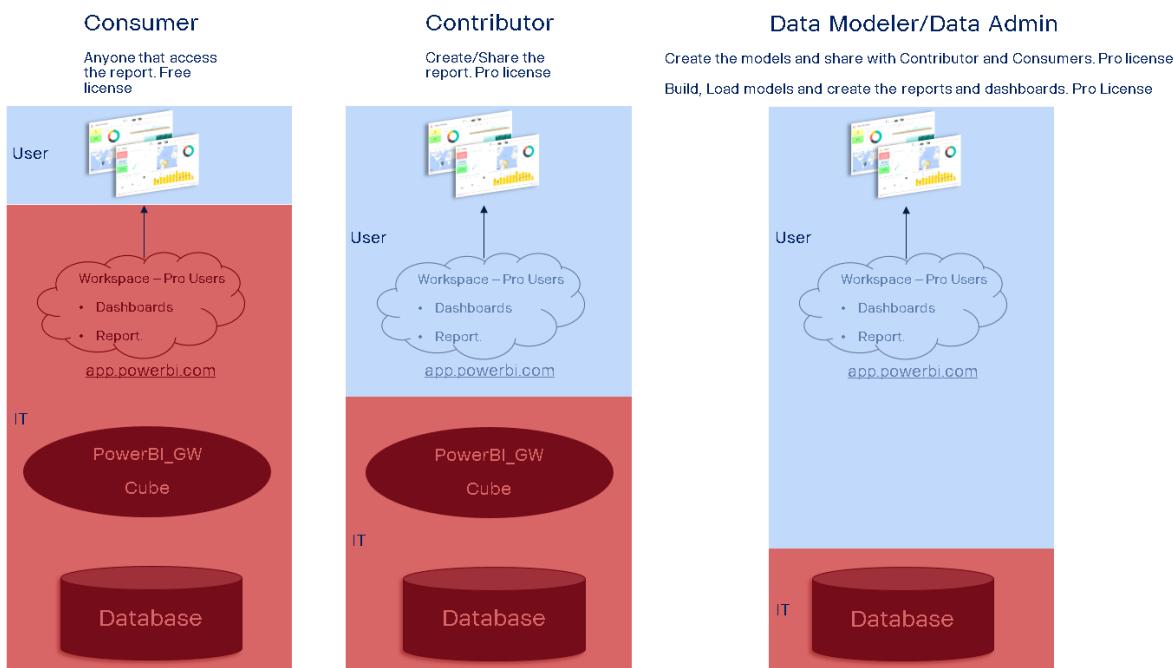
The screenshot shows an Outlook inbox with an email from 'Yukio Nishida, Marcius' with the subject 'KPI Count.'. The email body contains the message 'Testing the Microsoft Flow.' A status bar at the bottom left indicates 'This message was sent with Low importance.' The time '16:26' is shown in the top right corner.



# Way-of-Working in Self-Service BI

According to page 5 the SLA is working in two ways below basically:

- Consumer: IT is responsible to create the data in Data Warehouse or dataset in PowerBI and also the reports and the business only use it;
- Contributor: IT is just responsible to create the data in Data Warehouse and the report is created by business, this is Self-Service BI concept.



For the Contributor mode the best-practices are:

- Data available in Data Warehouse is enough to create the report?
  - If Yes: IT can create the data in PowerBI dataset or it can create also in Analysis Services tool so the report cannot use other data source;
  - Is Not: Business must connect direct to the Data Warehouse so the report can use others data sources like excel, files and etc.
    - Please read the page 18;
    - The correct is: each user has its username into Data Warehouse like OPS\$SSBX<sup>XX</sup> so we will have the governance, audit and also the refresh on the Cloud will work normally. If the business will use a

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service username like usr\_XXX the refresh on the cloud will not work.

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# How to open PowerBI Tool

The PowerBI Tool in the Cloud and On-Premises are available on SLA-Applications(<https://sla-applications.br.scania.com/site>) as below:

The screenshot shows the SLA Applications interface. At the top, there's a navigation bar with links like Apps, Open in Power BI, LITA Portal, Google, Gmail, DBMap, Jira BI, Service Center, PowerBI, PBI - DEV, PBI - PROD, and JumpServer. Below the navigation bar, the main header reads "SCANIA SLA APPLICATIONS". A horizontal menu bar contains categories such as ENG. & PROD., FINANCE, FLASH, COMMUNICATION, IT, SLA PURCHASING, PROD.CTRL., SALES & MKT, BI (which is highlighted with a red box), VISAWEB, and SELECT ENV. A dropdown menu for the BI category is open, listing options: DISCOVERER PLUS, DISCOVERER VIEWER, EIS - EXEC. INFORMATION SYSTEM, EIS COGNOS8.4, EIS COGNOS10, POWERBI ON PREMISES (which is highlighted with a red box), and POWERBI CLOUD.

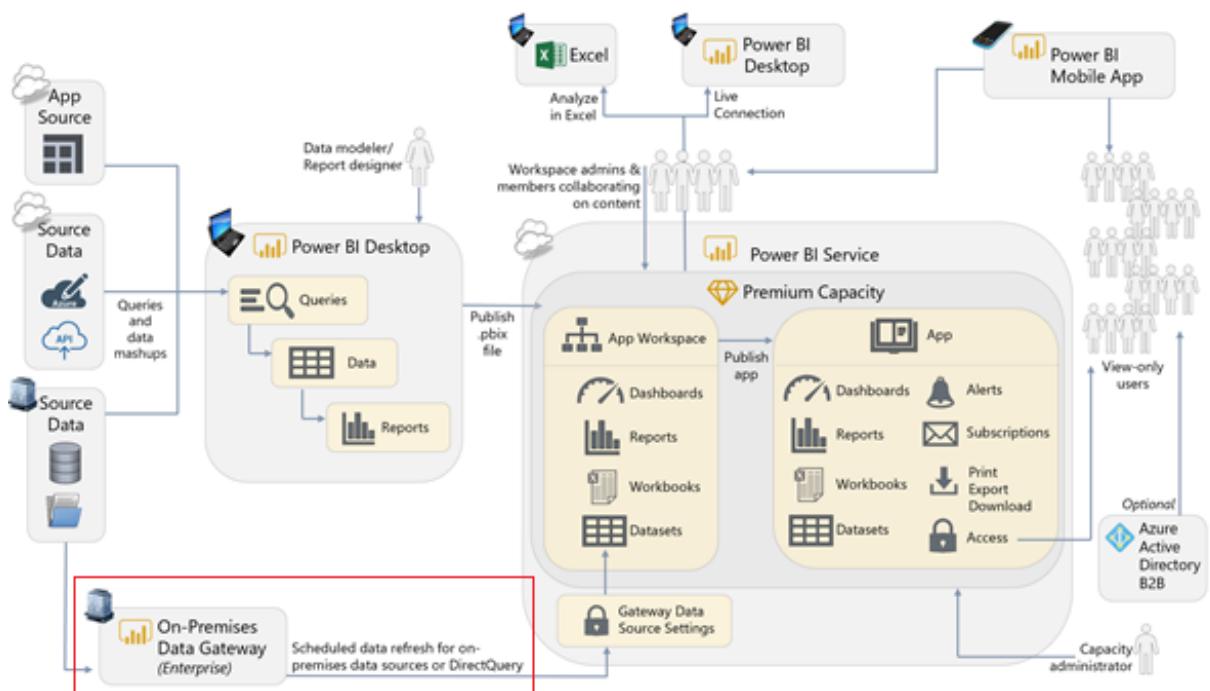
For mobile is available in IOS and Android:

The screenshot shows the Microsoft Power BI app page on the App Store. The app icon features a yellow square with a bar chart. The title is "Microsoft Power BI" with the subtitle "Análise de dados de negócios". There's a blue "ABRIR" (Open) button. Below the icon, it says "4,8 ★★★★★" (4.8 stars), "6,64 mil Avaliações" (6,640 reviews), "Nº102 Negócios" (Business #102), and "4+ Idade" (Age 4+). Under "Novidades", it says "Versão 19.0" (Version 19.0) and "Há 2 sem" (2 weeks ago). It lists "- Improved stability and fixed various bugs.". Under "Pré-visualizar", there are two screenshots of the app interface on a smartphone, showing charts and data analysis.



# PowerBI Gateway SLA

The PowerBI Gateway has been implemented in Brazil helping on the performance in PowerBI reports that uses Direct-Query mode, we were using that gateway in Sweden before.



The Gateway-SLA are below and the data sources registered in each one are:

- SLAPBIGW\_Test for test environment running on the BRSACO0514 server;

Database	Description
Braga.br.scania.com	Prossess application for Truck
Delta.br.scania.com	New Data Warehouse – Development
Ipira.br.scania.com	New Data Warehouse – Acceptance

- SLAPBIGW\_Prod for production environment running on the BRSACO0513 server.

Database	Description
Penha.br.scania.com	Prossess application for Bus
Moema.br.scania.com	Prossess application for Truck
Erere.br.scania.com	Data Warehouse



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Franca.br.scania.com	New Data Warehouse – Production
PowerBI Folder SLA	Folder for SLA

If you have PowerBi report on the Cloud please check the Gateway connection and change to the SLAPBIGW\_Test or SLAPBIGW\_Prod according to list above.

## Settings for Quality Gate Truck

This dataset has been configured by [Marcius.Nishida@scania.com](mailto:Marcius.Nishida@scania.com).

[Refresh history](#)

### ▲ Gateway connection

To use a data gateway, make sure the computer is online and the data source is added in [Manage Gateways](#). If you're using an On-premises data gateway (standard mode), please select the corresponding data sources and then click apply.

Use a data gateway



Gateway	Department	Contact information	Status	Actions
<input checked="" type="radio"/> SLAPBIGW_Test	LITA	Marcius.Nishida@scani...	<span>✓ Running on BRSACO0514</span>	

Data sources included in this dataset:

<input checked="" type="checkbox"/> Oracle{"server":"braga.br.scania.com"}	Maps to: BRAGA.br.scania.com O ▾
--	----------------------------------

<input type="radio"/> SLAPBIGW_Prod	LITA	Marcius.Nishida@scani...	<span>✗ Not configured correctly</span>	
-------------------------------------	------	--------------------------	---	--

⚠ You have no personal gateways installed. [Learn more](#)

[Install now](#)

[Apply](#)

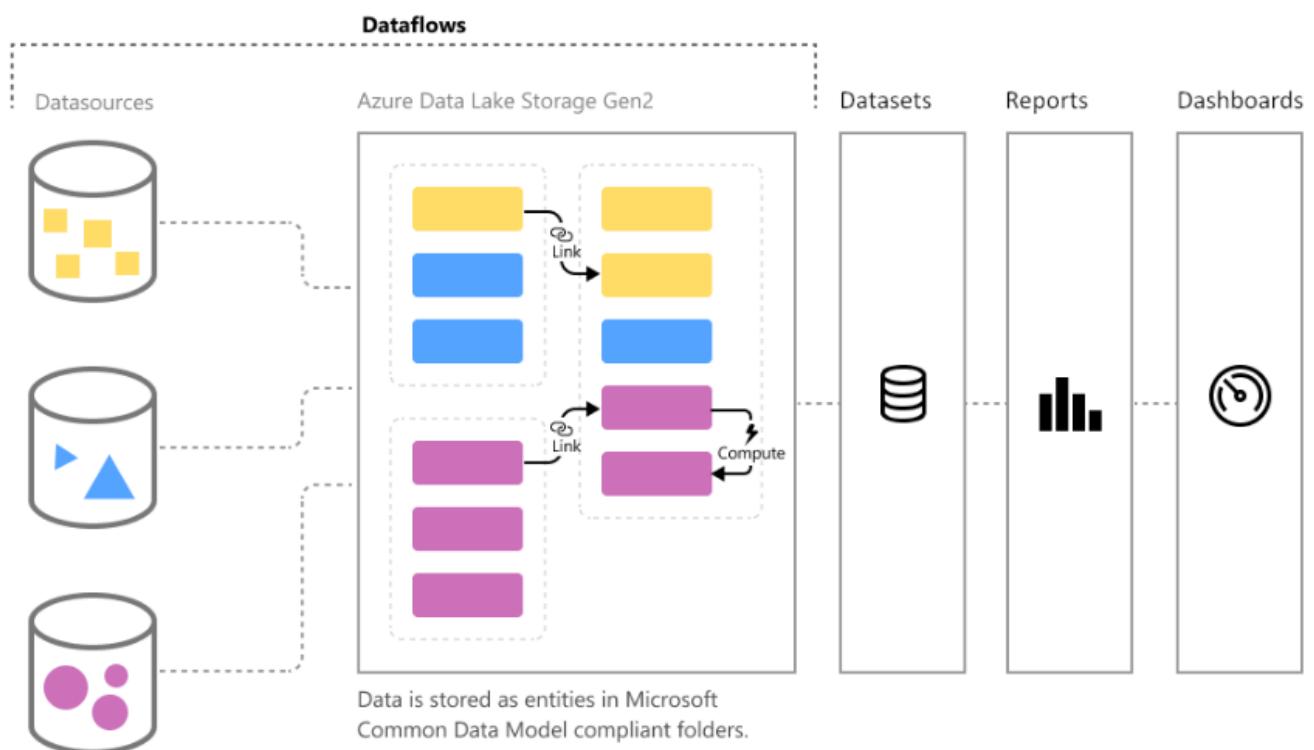
[Discard](#)



# Data Flow

As the PowerBI Gateway has been implemented in Brazil the Data Flow feature is available now to be used where you can your dataflow taking data in many different data sources.

More details please read the link <https://docs.microsoft.com/en-gb/power-bi/service-dataflows-overview>



The data sources available to use on the Data Flow are:

- SLAPBIGW\_Test for test environment running on the BRSACO0514 server;

Database	Description
Braga.br.scania.com	Process application for Truck
Delta.br.scania.com	New Data Warehouse – Development
Ipira.br.scania.com	New Data Warehouse – Acceptance



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- SLAPBIGW\_Prod for production environment running on the BRSACO0513 server.

Database	Description
Penha.br.scania.com	Prossess application for Bus
Moema.br.scania.com	Prossess application for Truck
Erere.br.scania.com	Data Warehouse
Franca.br.scania.com	New Data Warehouse – Production
PowerBI Folder SLA	Folder for SLA

The steps to use Data Flow are:

- 1) If you would like to use the Data Flow taking data from Data Warehouse your name must be included on the data sources first, if your username is not included yet so open a request by Jira please for the group **POWER BI - Platform (POWERBI)** ordering permission on the data source.

The screenshot shows the 'Data Source Settings' page for a data source named 'SLAPBIGW\_Test'. On the left, under 'GATEWAY CLUSTERS', 'SLAPBIGW\_Test' is expanded, showing three Oracle connections: 'BRAGA.br.scania.com Oracle', 'IPIRA.br.scania.com Oracle', and 'DELTA.br.scania.com Oracle'. A 'Test all connections' button is visible. On the right, the 'Users' tab is selected, showing a list of users who can publish reports using this data source. 'Marcius Yukio Nishida' is listed with a checked checkbox next to their name. A 'Remove' button is located at the bottom of this list.

- 2) On the PowerBI in the Cloud press Create button and after Data Flow:



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The screenshot shows the Power BI Cloud Dataflows workspace. At the top, there are navigation links: Dashboards, Reports, Workbooks, Datasets, and Dataflows (which is underlined). On the right, there's a sidebar with options: Dashboard, Report, Dataset, Streaming dataset, and Dataflow. Below the sidebar, a message says "You don't have any dataflows" and "All dataflows in this workspace will be here." There's also a small icon of a computer monitor and a cactus.

### 3) Press the Add New Entities:

The screenshot shows the "Start creating your dataflow" interface. It features two main sections: "Define new entities" and "Import Model".

**Define new entities:** Choose a data source to define the entities for your dataflow. You can map your data to [standard Common Data Model entities](#), or define custom entities instead. [Learn more](#)

**Import Model:** Choose a dataflow model to import into your workspace. [Learn more](#)

At the bottom, there are two yellow buttons: "Add new entities" and "Import model".



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#### 4) Choose the Oracle database:

Choose data source

All categories File Database Azure Online services Other Search

Data sources

Access File	Excel File	JSON File	PDF File	Text/CSV File
XML File	Amazon Redshift Database	IBM Db2 database Database	MySQL database Database	Oracle database Database
PostgreSQL database Database	SQL Server database Database	Sybase database Database	Teradata database Database	Vertica Database
Azure Blobs Azure	Azure Data Explorer (Kusto) Azure	Azure SQL Data Warehouse Azure	Azure SQL database Azure	Azure Tables Azure
Common Data Service Online services	Microsoft Exchange Online Online services	Salesforce objects Online services	Salesforce reports Online services	SharePoint Online list Online services
SharePoint folder Online services	Smartsheet Online services	Active Directory Other	OData Other	Odbc Other

Templates

Accounts, leads, opportunities Salesforce Online services	Lead to cash Dynamics 365 for Sales Online services	Leads, opportunities Dynamics 365 for Sales Online services	Quotes, orders, invoices Dynamics 365 for Sales Online services
---	---	---	---

#### 5) Fill the server, On-Premises data gateway, authentication kind, username and password:

Connect to data source

Oracle database Database

Connection settings

Server  
braga.br.scania.com

Connection credentials

On-premises data gateway  
[Admin] SLAPBIGW\_Test

Authentication kind  
Basic

Username  
[ENCRYPTED]

Password  
\*\*\*\*\*

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**6) Choose the tables to create your data flow:**

Choose data

Search

Display options ▾

- PROSSESS.CHA\_MUV\_310
- PROSSESS.CHA\_MOV\_310\_SAV
- PROSSESS.CHA\_MOV\_SAV
- PROSSESS.CHARGE\_CLUSTER
- PROSSESS.CHASSIS
- PROSSESS.CHASSIS\_AUDIT
- PROSSESS.CHASSIS\_FD\_RECUP\_INTERS
- PROSSESS.CHASSIS\_LIG1
- PROSSESS.CHASSIS\_LIG2
- PROSSESS.CHASSIS\_SPEC
- PROSSESS.CHRONOTACHY
- PROSSESS.CIMI\_AFTERTINEDATES
- PROSSESS.CLUST\_CHA\_SOUTIEN
- PROSSESS.CLUSTER\_WORKPLACE
- PROSSESS.COMMANDE\_MAGASIN\_T30
- PROSSESS.COMPOSANT\_RETRAIT
- PROSSESS.COND\_PREPA\_FFU
- PROSSESS.CONDITION\_PARAM\_FFU
- PROSSESS.CONTROLE\_BATTERIES
- PROSSESS.DEFAULT
- PROSSESS.DEFAULT\_KD\_BUS
- PROSSESS.DEVIATION
- PROSSESS.DPT\_CLUSTER
- PROSSESS.DPT\_PLAN
- PROSSESS.ECHANTILLON
- PROSSESS.EMPLACEMENT

Select related tables

**7) Your data flow is ready to be used and you can also create an agenda for refresh:**

Entities Machine learning models

Edit entities Add entities Close

ENTITY NAME	ENTITY TYPE	ACTIONS
PROSSESS PARAM_FFU	Custom	

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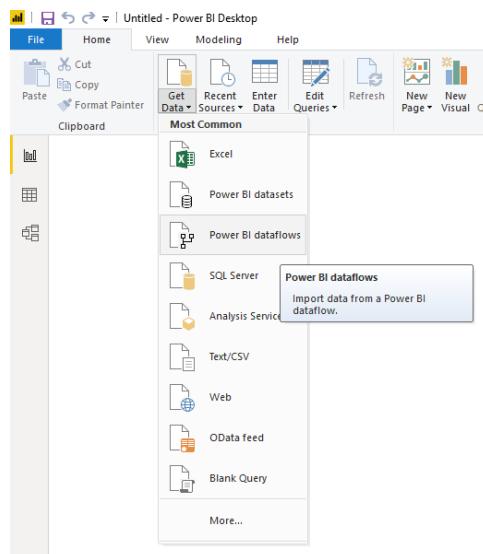
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- 8) If you open PowerBI desktop, press Get Data button and choose the option PowerBI Data Flows:



- 9) Your data flow will be showed as data source:



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- 10) The data will be showed and you can use also others data sources where the Get Data button will not be disabled.

The screenshot shows the Power BI Desktop interface. The ribbon at the top has tabs: File, Home, View, Modeling, Help, Format, and Data / Drill. The 'Home' tab is selected. In the 'Clipboard' section of the ribbon, there is a 'Get Data' button, which is highlighted with a red box. Below the ribbon is a large data grid. The grid has columns labeled VAR353, TYPE, LIGHT\_FFU, LIBELLE, BODY\_FFU, ALLOWEDONLINE, REALISE, and REALISE\_FFU. The data grid contains 15 rows of vehicle-related data. The first few rows include: FFU N FFU comb - Mining Chile, HUB cap for driving axle, serie 60 years; FFU N Scania Peru 6x4 Off-road combination; FFU N 500l fuel tank; FFU N 65th anniversary - R460 Vehicle accessories FFU; FFU N 8x4 - Tipper Complete Vehicle (Rossetti); FFU N 8x4 Tipper Complete Vehicle (Randon tipper); FFU N ACL Lincoln 10x4\*6; FFU N ACL Lincoln 6x4; FFU N ACL Lincoln 8x4; FFU N Adjustments of OPC parameters for mining trucks; FFU N Air restrict. indicator; FFU N Air tank relocation from position J to E; FFU N Alcoholt interlock (not in use).

VAR353	TYPE	LIGHT_FFU	LIBELLE	BODY_FFU	ALLOWEDONLINE	REALISE	REALISE_FFU
0	FFU	N	FFU comb - Mining Chile	N	Y		N
0	FFU	N	HUB cap for driving axle, serie 60 years	N	Y		N
0	FFU	N	Scania Peru 6x4 Off-road combination	N	N		N
0	FFU	N	500l fuel tank	N	Y		N
0	FFU	N	65th anniversary - R460 Vehicle accessories FFU	N	Y		N
0	FFU	N	8x4 - Tipper Complete Vehicle (Rossetti)	N	N		N
0	FFU	N	8x4 Tipper Complete Vehicle (Randon tipper)	N	Y		N
0	FFU	N	ACL Lincoln 10x4*6	N	N		N
0	FFU	N	ACL Lincoln 6x4	N	N		N
0	FFU	N	ACL Lincoln 8x4	N	N		N
0	FFU	N	Adjustments of OPC parameters for mining trucks	N	Y		N
0	FFU	N	Air restrict. indicator	N	N		N
0	FFU	N	Air tank relocation from position J to E	N	N		N
0	FFU	N	Alcoholt interlock (not in use)	N	N		N



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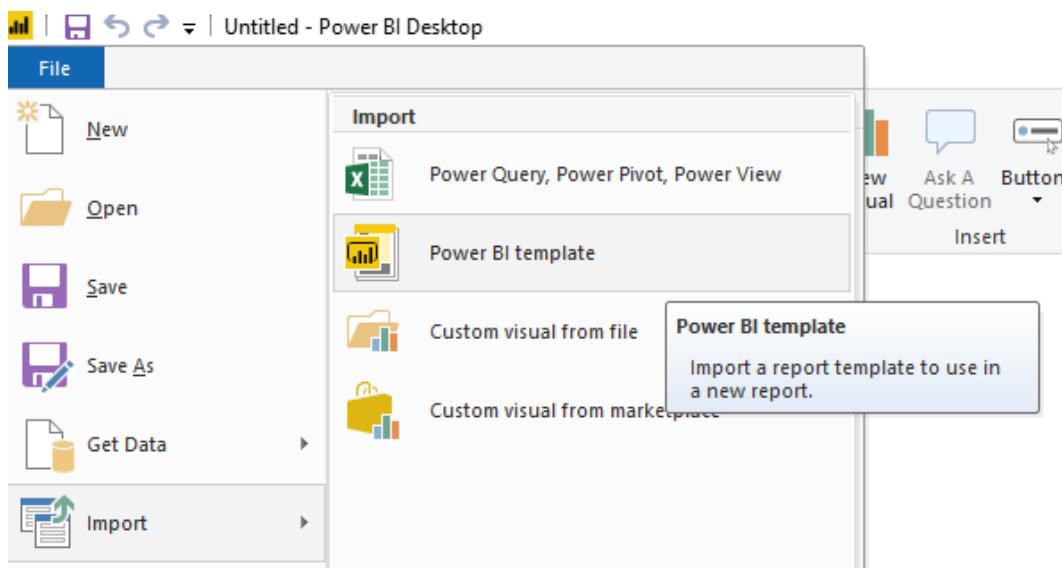
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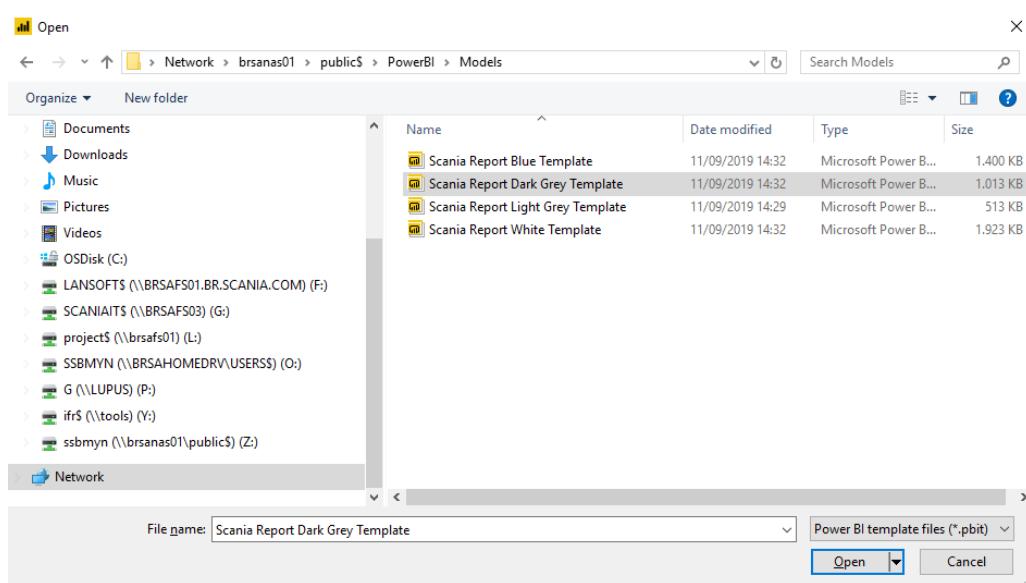
# Scania Template and Theme

If you would like to use the Scania template or theme on the PowerBI the step-by-step is:

- PowerBI Template: Menu File\Import\PowerBI Template:



- Fill the path [\\brsanas01\public\\$\PowerBI\Models](\\brsanas01\public$\PowerBI\Models) and choose a template:





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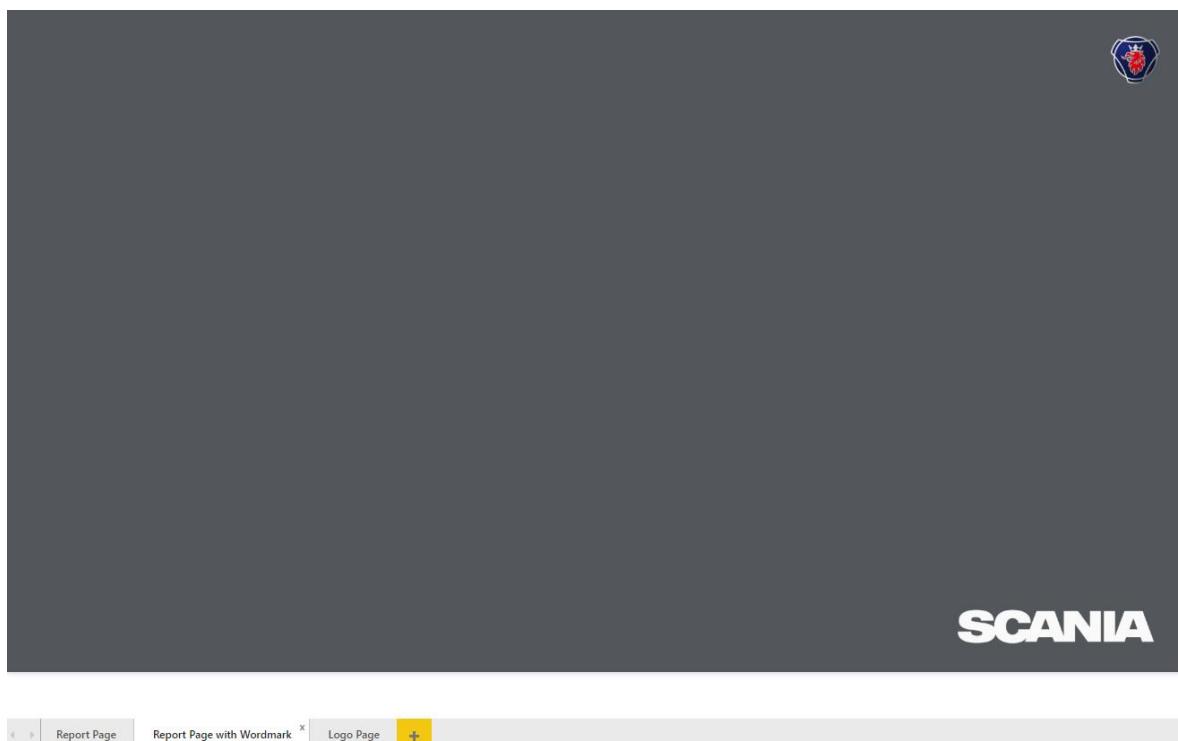
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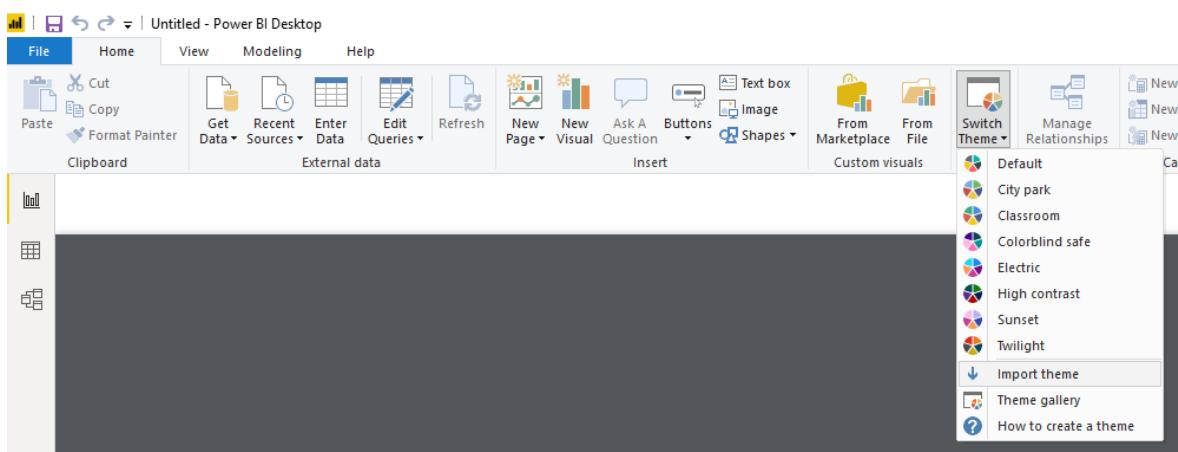
To (department acronym name)

For information (department acronym name)

- c) The template will be loaded with Scania logo:



- d) PowerBI Theme: Menu Home\Switch Theme\Import theme:



- e) Fill the path [\\brsanas01\public\\$\PowerBI\Themes](\\brsanas01\public$\PowerBI\Themes) and choose a theme:



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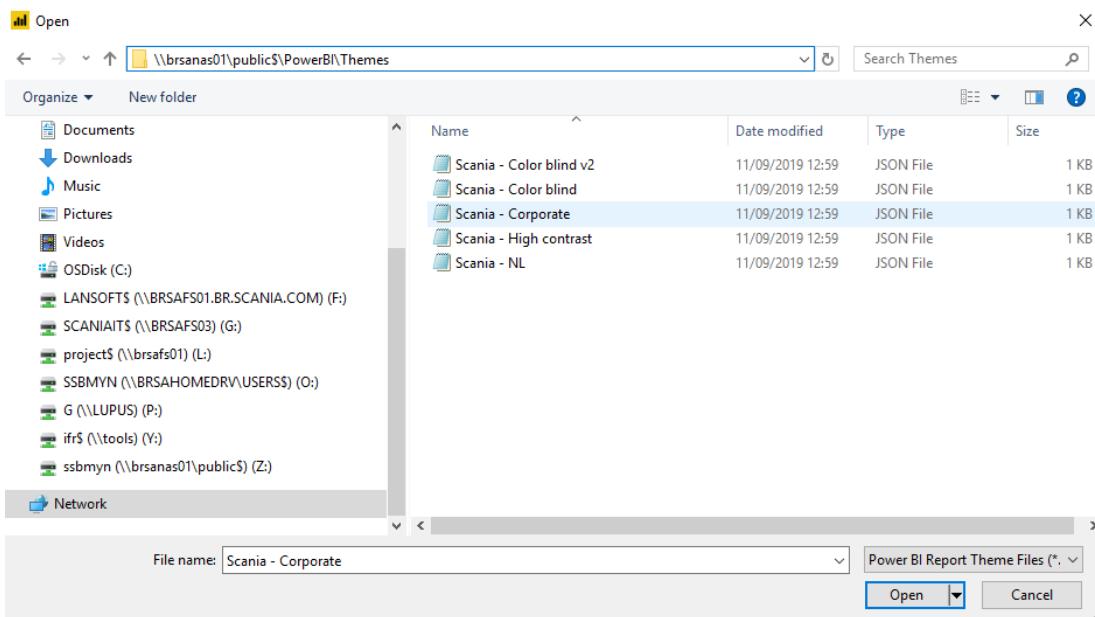
Internal

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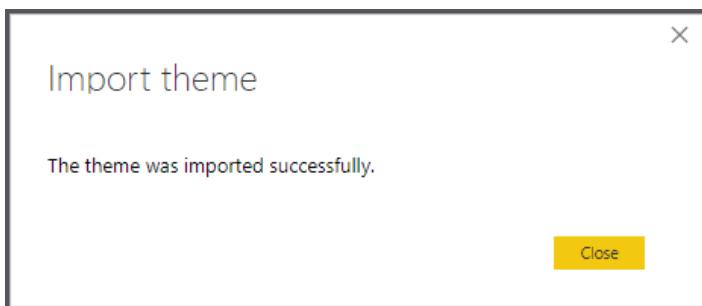
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f) You will receive a message as below:



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File name

PowerBI\_v11

Date

2018-09-01

Issue

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Info class

Internal

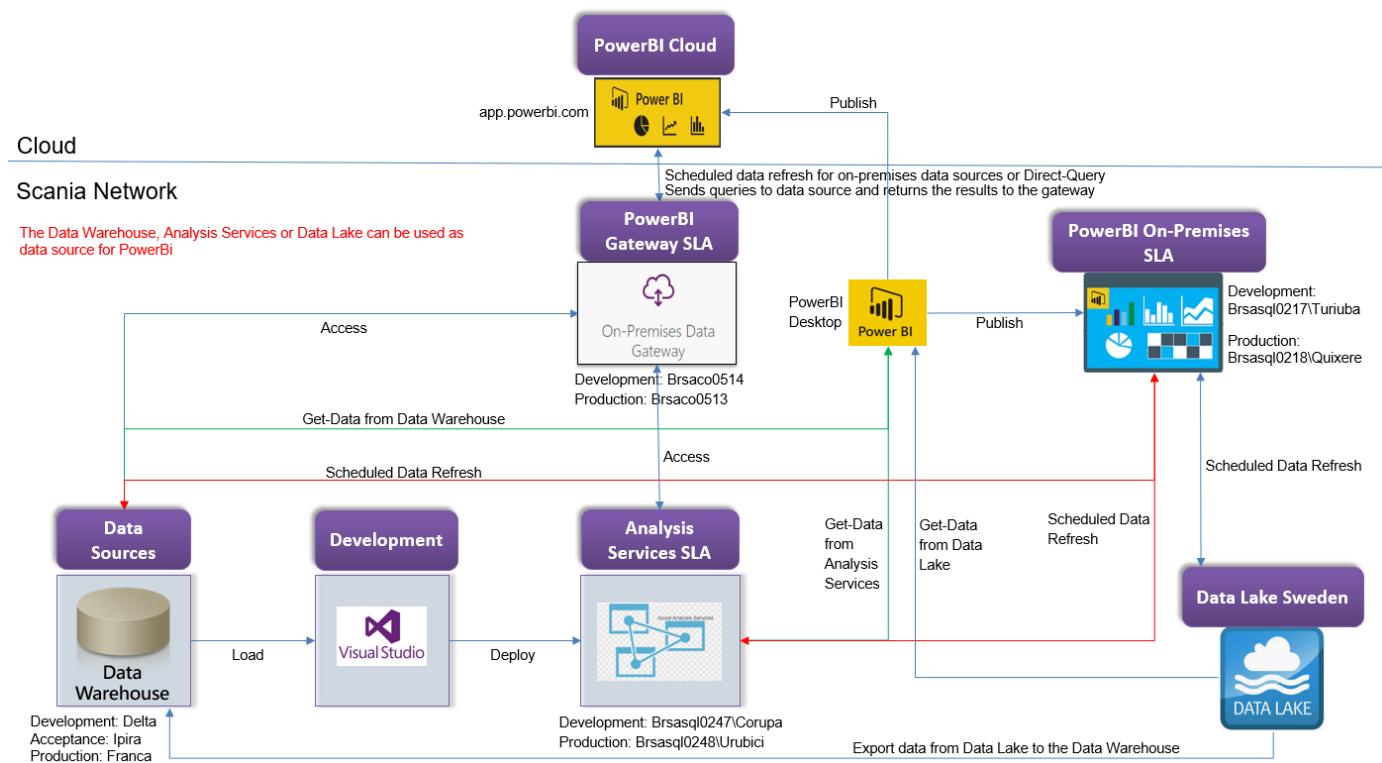
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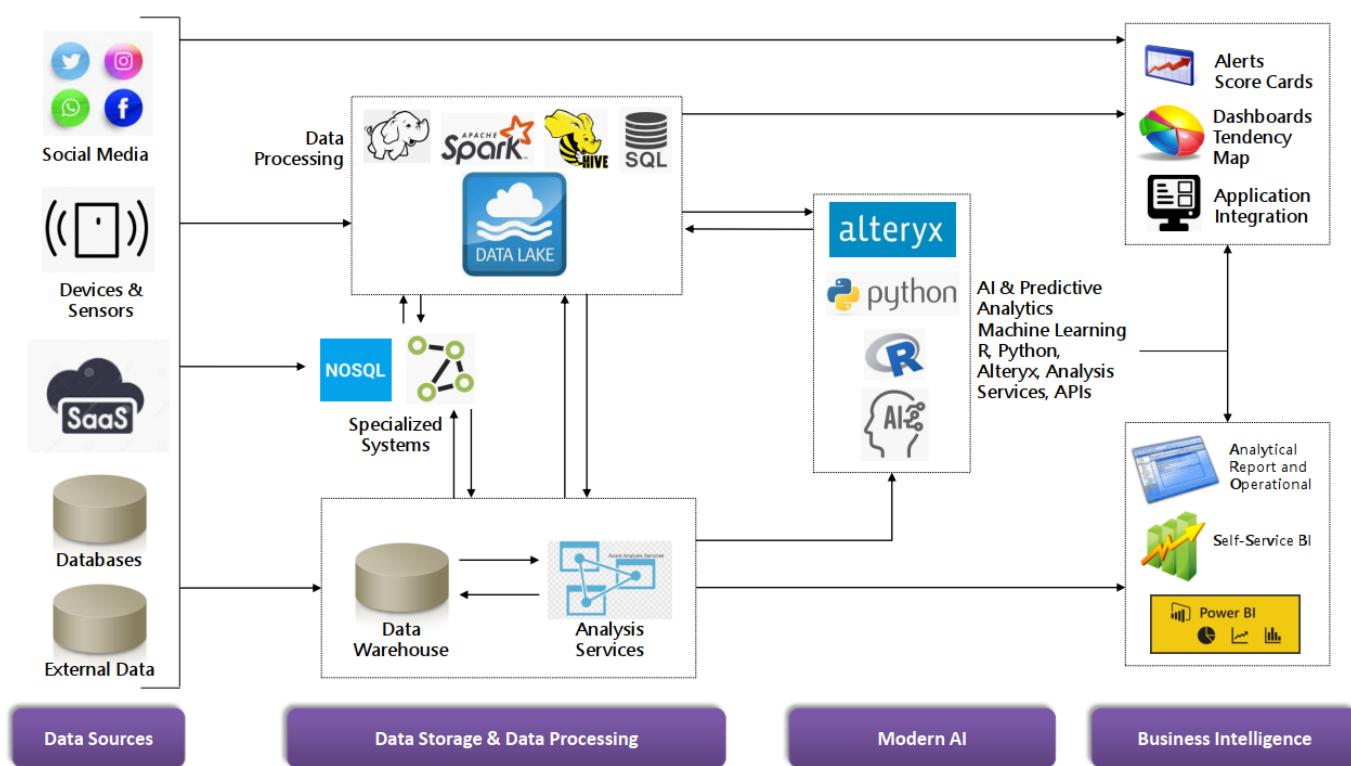
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# PowerBI Architecture





# General Architecture



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# Incremental Refresh PowerBI Pro

That functionality is now released for PowerBI PRO license and if you have a big dataset in PowerBI taking information from database you can do the incremental refresh avoiding the timeout for example.

Please watch this video to know how it works

<https://www.youtube.com/watch?v=03CLJib9O8s&feature=youtu.be>



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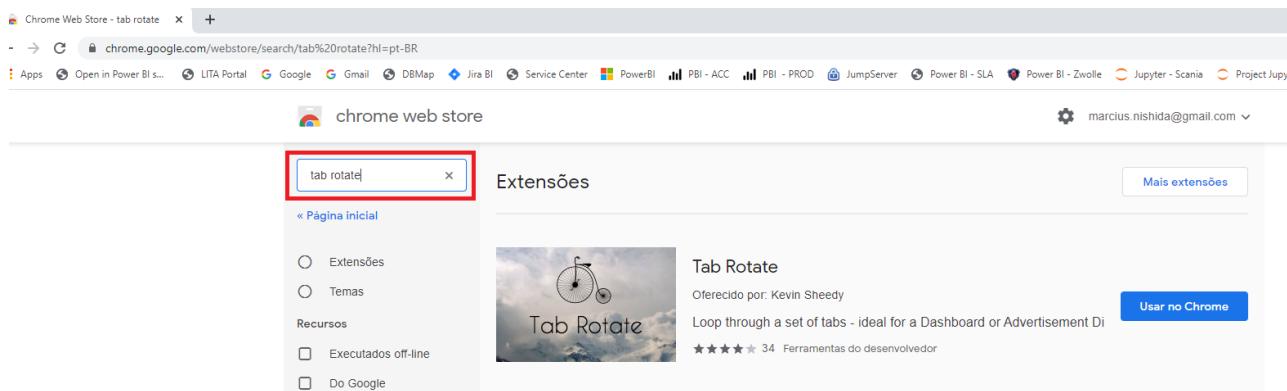
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# Tab Rotate and Refresh in PowerBI

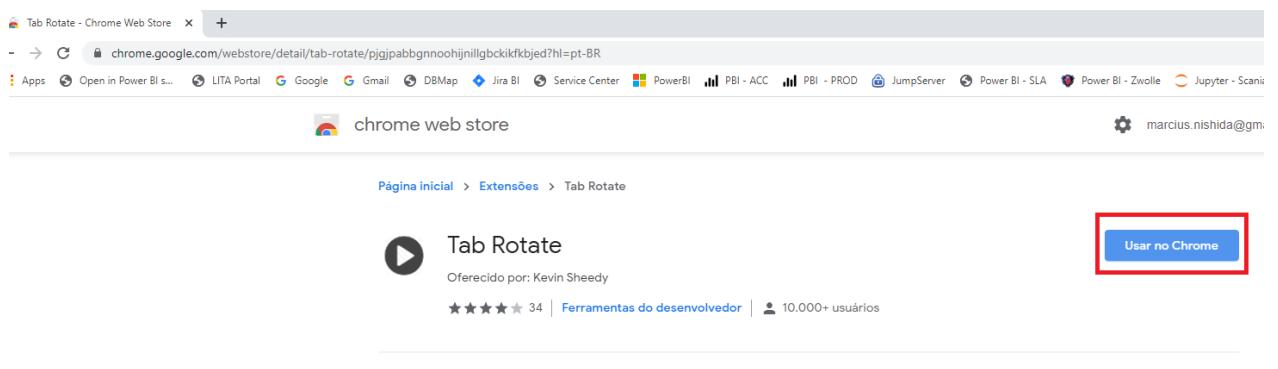
If you would like to run your PowerBI report on TV changing the tab and refresh automatically on Google Chrome please follow the instructions below:

- 1) Open the URL  
[https://chrome.google.com/webstore/category/collection/everyday\\_extensions?hl=pt-BR](https://chrome.google.com/webstore/category/collection/everyday_extensions?hl=pt-BR) by Google Chrome;
- 2) Find the Tab Rotate extension;



The screenshot shows the Google Chrome Web Store interface. A search bar at the top contains the text "tab rotate". Below the search bar, the results are displayed under the heading "Extensões". A single extension, "Tab Rotate", is listed. It features a thumbnail image of a bicycle wheel, the text "Tab Rotate", and a brief description: "Loop through a set of tabs - ideal for a Dashboard or Advertisement Di...". To the right of the extension card is a blue button labeled "Usar no Chrome". On the left side of the results page, there are filter options: "Extensões", "Temas", "Recursos", "Executados off-line", and "Do Google".

- 3) Click on Usar em Chrome button and add the extension:



The screenshot shows the product page for the "Tab Rotate" extension on the Google Chrome Web Store. At the top, the extension's name "Tab Rotate" is displayed along with its developer, "Kevin Sheedy". Below this, the extension has a rating of 3.4 stars from 34 reviews and 10,000+ users. A large blue button on the right is labeled "Usar no Chrome". At the bottom of the page, there are navigation links: "Visão Geral", "Comentários", "Suporte", and "Itens Relacionados".

- 4) Fill the URL Report with your report link, time duration in seconds and also the time in reload interval and save the configuration:

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## Tab Rotate Options

Config Source:

- Local Storage
- Remote Url

```
{
  "settingsReloadIntervalMinutes": 1,
  "fullscreen": false,
  "autoStart": false,
  "lazyloadTabs": false,
  "websites": [
    {
      "url": "http://powerbisla.br.scania.com/reports/powerbi/Pilot/PowerBI_Test_DirectQuery",
      "duration": 5,
      "tabReloadIntervalSeconds": 5
    },
    {
      "url": "https://app.powerbi.com/groups/a0c929b3-7918-4a87-86c6-335ac96d4b98/reports/3b7cd9fd-f06f-4cb6-9e4d-f0ea7",
      "duration": 5,
      "tabReloadIntervalSeconds": 5
    }
  ]
}
```

JSON: Valid

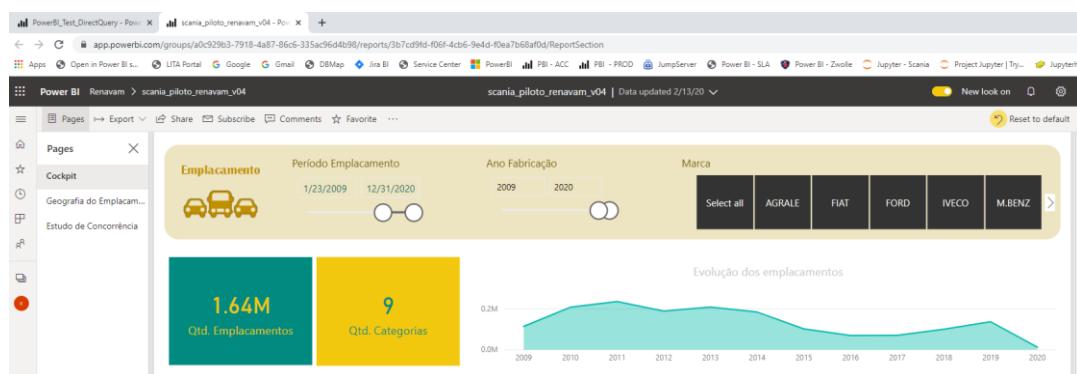
Cancel

Save

- 5) Click on the Play button on the right side to run the PowerBI reports:



- 6) The Google Chrome will run the reports changing the tabs automatically:



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- 7) If you want to show the report in fullscreen mode just to include the parameter **?chromeless=true** on the final URL, it works only in PowerBI Cloud. Example:  
<https://app.powerbi.com/groups/a0c929b3-7918-4a87-86c6-335ac96d4b98/reports/3b7cd9fd-f06f-4cb6-9e4d-f0ea7b68af0d/ReportSection?chromeless=true>



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# Ordering the PowerBI Premium Capacity

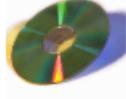
Starting January 1, 2020, the service Power BI Premium Capacity Workspace is no longer centrally financed based on a central decision from Pricing And Calculation Council (PACC) December 2019.

Therefore, the existing workspaces assigned to premium capacity need to re-order their premium capacity in order to keep it.

Each workspace using premium capacity will cost 250 SEK per month. In order to keep the premium capacity on your workspace, make sure you put an order in  
[http://orderit.scania.com/Site/PackageDetails\\_View.aspx?ProductId=PKG-1024&CategoryTitle=Application%20Roles&CategoryId=CAT-486&node=CAT-279](http://orderit.scania.com/Site/PackageDetails_View.aspx?ProductId=PKG-1024&CategoryTitle=Application%20Roles&CategoryId=CAT-486&node=CAT-279) before April 1st 2020.

It is a prerequisite to include the name of your workspace in the order before checkout.

**Customise Package**

<b>Power BI Desktop and Application:</b> Order Power BI Desktop and/or License Order Access for Power BI Application		<b>Power BI Capacity Premium Workspace:</b>  <input type="radio"/> None [0,00 SEK & 0,00 SEK] <input type="radio"/> Power BI Desktop Cloud [0,00 SEK & 0,00 SEK] <input type="radio"/> Power BI Pro Licences, Cloud [0,00 SEK & 0,00 SEK] <input type="radio"/> Power BI Desktop on Prem [0,00 SEK & 0,00 SEK] <input type="radio"/> Power BI Application New and Cancel [0,00 SEK & 0,00 SEK] <input checked="" type="radio"/> Power BI Premium Capacity Workspace [0,00 SEK & 0,00 SEK]
--	---	---

All workspaces which currently have premium capacity but have not ordered it through OrderIT by March 31st will have the premium capacity turned off starting April 1st.

A reminder will be sent out in the end of March, but we recommend you do this as soon as possible.



# New look of workspace in PowerBI

To modernize and simplify the user experience in the Power BI service, last year, it has been launched a public preview of the ‘new look’ feature.

**Note: We've started to roll out the feature today and will be enabled for all users by April 17, 2020.**

The screenshot shows the PowerBI workspace interface with several key features highlighted:

- + New**: A red box highlights the '+ New' button in the left sidebar, which provides one-click access to add content like reports, datasets, and dashboards.
- View switcher**: A red box highlights the 'View' switcher in the top command bar, which allows users to switch between 'List' and 'Lineage' views.
- Search bar**: A red box highlights the search bar in the top right corner.
- Filters panel**: A red box highlights the 'Filters' panel on the right side, which includes a 'Clear all' button and filters for Type (Dashboard, Dataset, Report), Owner (Sales Analytics), and Other (Included in the app, Not included in the app).
- Tooltip**: A red box with a callout arrow points to the 'Filters' icon in the top right corner, indicating a tooltip for the feature.

- 1) **Get Data:** We've made it much easier for users to add content to their workspace. The '+ New' button provides one-click access to connect to data, open files, and create new reports, dashboards, and more.
- 2) **View switcher:** To see the connections between dataflows, datasets, reports, and dashboards and their connections to other data sources, users have an entry point in the top command bar to switch between list view and lineage view.



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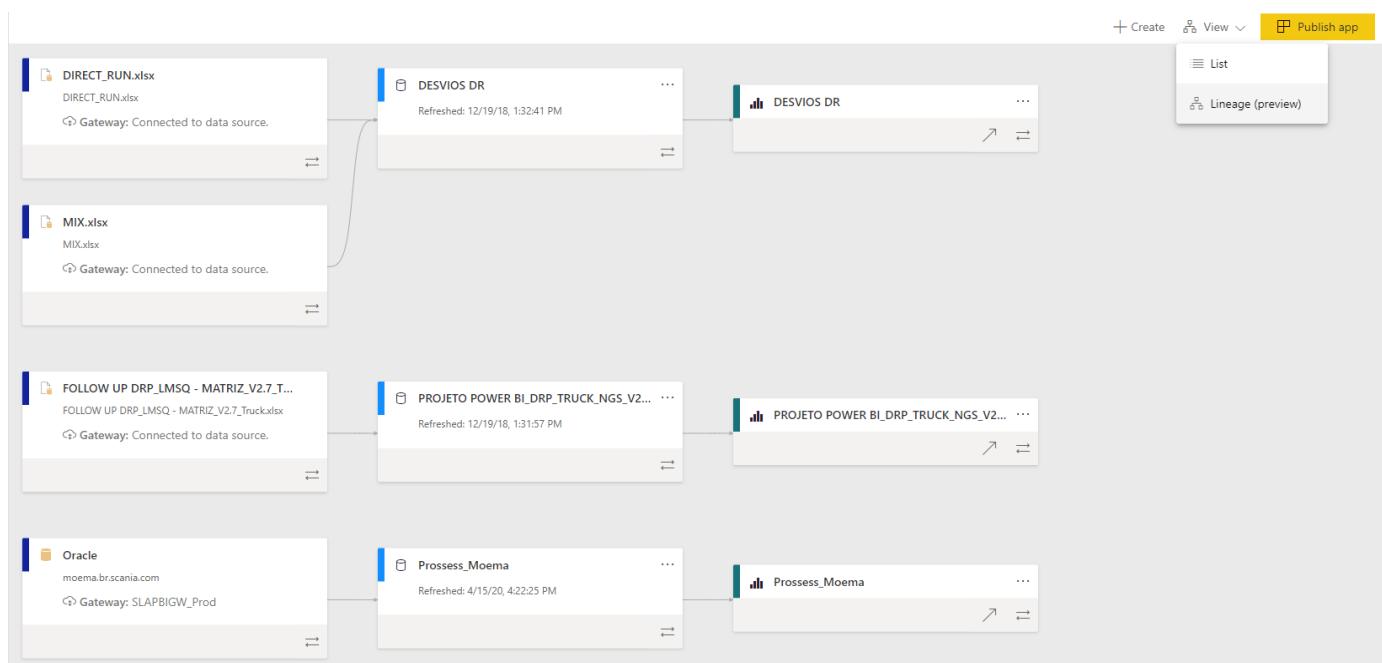
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- 3) Search within workspace: Users will be able to search across all the content within their workspace with the new search box.
- 4) List and tabs: We've restructured the original tabs to give users a flat list of content like SharePoint. That's right! Users will no longer be landing on the 'dashboards' tab after opening a workspace and getting confused. Here's the new tab order:
  - a. All - Shows all content (dashboards, reports, workbooks, paginated reports, datasets, dataflows) within the workspace.
  - b. Content - Shows all content created for consumption (dashboards, reports, workbooks, paginated reports) within the workspace.
  - c. Datasets + dataflows - Shows all the datasets and dataflows within the workspace for easy data management.
- 5) Filters: For workspaces with hundreds of artifacts, users will be able to quickly filter the content using the new filters pane. Once a filter is applied, users will be able to see the filter on top of the content list.
- 6) Quick actions: All the quick actions for your content will be available on hover. The most common actions will be accessible in a single click, and everything else will be in the “...” ellipses menu.

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+ New ▾

[All](#)   [Content](#)   [Datasets + dataflows](#)

Name	Type	Owner
Sales Analytics Report	Report	Sales Analytics
Sales Dataset	Analyze in Excel	Sales Analytics
Summary Sales Dashboard	<a href="#">Delete</a> <a href="#">Quick insights</a> <a href="#">Save a copy</a> <a href="#">Settings</a> <a href="#">View lineage</a>	Sales Analytics

- 7) New colors and icons - We have switched to a lighter color theme and updated icons within the workspace based on the Microsoft Fluent design system.



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## Hands On PowerBI – 4 days

There was a Hands On PowerBI done by BDA Solutions company where you can learn how to create a PowerBI report.

The videos and files are available in [\\brsanas01\public\\$\PowerBI\PowerBI\\_Week](\\brsanas01\public$\PowerBI\PowerBI_Week) and the videos in Youtube are in:

- [Vídeo no Youtube do 1º dia - Hands-on Power BI](#)
- [Vídeo no Youtube do 2º dia - Hands-on Power BI](#)
- [Vídeo no Youtube do 3º dia - Hands-on Power BI](#)
- [Vídeo no Youtube do 4º dia - Hands-on Power BI](#)