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Microsoft

Announcing Power BI in Jupyter notebooks

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For a quick peek into how to use the package in your application, check out the example in the next slide.

Install the package using pip:

```
pip install powerbiclient
```

Or if you use JupyterLab:

```
pip install powerbiclient
jupyter labextension install @jupyter-widgets/jupyterlab-manager
```

Open your notebook and add the following:

1. Import Report class and models from the package:

```
from powerbiclient import Report, models
```

2. Authenticate against Power BI using Azure AD:

```
# Import the DeviceCodeLoginAuthentication class to authenticate against Power BI
from powerbiclient.authentication import DeviceCodeLoginAuthentication

# Initiate device authentication
device_auth = DeviceCodeLoginAuthentication()
```

3. Set the workspace ID and report ID you'd like to embed:

```
group_id=""
report_id=""
```

4. Create an instance of Power BI report and load the report to the output cell:

```
report = Report(group_id=group_id, report_id=report_id, auth=device_auth)

report
```

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You can also authenticate against Power BI using an **embed token**. To do this, pass the embed token and set the token type to `Embed` when creating the Power BI report instance:

```
report = Report(group_id=group_id, report_id=report_id, access_token=access_token, token_type=
                                                                    models.TokenType.Embed.value)
```

Here's a 3-step quick start guide for embedding Power BI in Jupyter notebooks.

1. Install the Power BI Client package in your Jupyter Notebook environment

Here's how

- Install Power BI Jupyter Client from PyPI
- Open a Jupyter notebook in your browser
- Import the Power BI Client into Jupyter notebook

2. Embed your Power BI Embedded analytics report

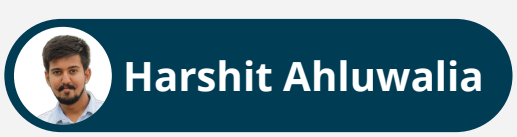
Here's how

- Authenticate to Power BI
- Get report and workspace ID
- (Optional) Set report event handlers
- Embed the report in an output cell

3. Interact with the report

Here's how

- Apply bookmarks and filters to the embedded report
- Get the page and visual name
- Export summarized data from a report visual
- Explore Power BI data in-depth in Jupyter notebook



ARE YOU READY TO USE POWER BI IN JUPYTER NOTEBOOK

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