

Securing datasets in Power BI Service

DEPLOYING AND MAINTAINING ASSETS IN POWER BI



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Dataset permissions

Read

- Allow users to access reports which read data from the dataset
- Does NOT allow users to find content which uses a dataset
- Does NOT support external API queries

Reshare

- Allow users to share dataset contents with other users
- Can grant Read, Reshare, or Build permissions to other users

Build

- Allow users to build new content from a dataset
- Allow users to find content which uses a dataset
- Allow users to query using external APIs

Write

- Allow users to view and modify dataset metadata

Datasets and workspace roles

	Admin	Member	Contributor	Viewer
Read	Yes	Yes	Yes	Yes
Build	Yes	Yes	Yes	No
Write	Yes	Yes	Yes	No
Reshare	Yes	Yes	No	No

Ways to obtain dataset permissions

- Directly grant dataset permissions to a user or group

The screenshot shows the 'Grant people access' dialog box overlaid on the Power BI dataset settings page for 'Wake County Restaurant Inspections'. The dialog box has a red border around the 'Add user' button. It contains a search bar, two selection options ('DataCamp Instructor' and 'Entire organization'), and three checked checkboxes for sharing, building content, and sending notifications. At the bottom are 'Grant access' and 'Cancel' buttons.

Wake County Restaurant Inspections

Related content

Dashboards

Reports

Workbooks

+ Add user

Links Direct access

People and groups with access

DataCamp Instructor

Entire organization

Enter a name or email address

Allow recipients to share this dataset

Allow recipients to build content with the data associated with this dataset

Send an email notification

Add a message (optional)

Grant access Cancel

Ways to obtain dataset permissions

- Directly grant dataset permissions to a user or group
- Grant permissions to an app and let the user get the app

The screenshot shows the Power BI Apps interface. On the left, there's a sidebar with options like Home, Favorites, Recent, Create, Datasets, Goals, Apps, Shared with me, Learn, Workspaces, and a Wake County section. The main area is titled 'Wake County' and has tabs for Setup, Navigation, and Permissions. The Permissions tab is selected. It shows two radio button options: 'Entire organization' (selected) and 'Specific individuals or group'. Below that is a search bar with placeholder text 'Enter a name or email address'. A large red box highlights a section titled 'Allow everyone who has app access to'. Inside this box are three checkboxes:

- Allow all users to connect to the app's underlying datasets using the Build permission.
- Allow users to make a copy of the reports in this app.
- Allow users to share the app and the app's underlying datasets using the share permission.

Below this section is a link 'Learn more about how to publish and update Power BI apps'. Further down are sections for 'Installation' (with a checkbox for 'Install this app automatically.') and 'Links'.

Ways to obtain dataset permissions

- Directly grant dataset permissions to a user or group
- Grant permissions to an app and let the user get the app
- Share a link to a report

The screenshot shows the 'Send link' dialog box in the Power BI service. The dialog is centered over a list of datasets. The list includes:

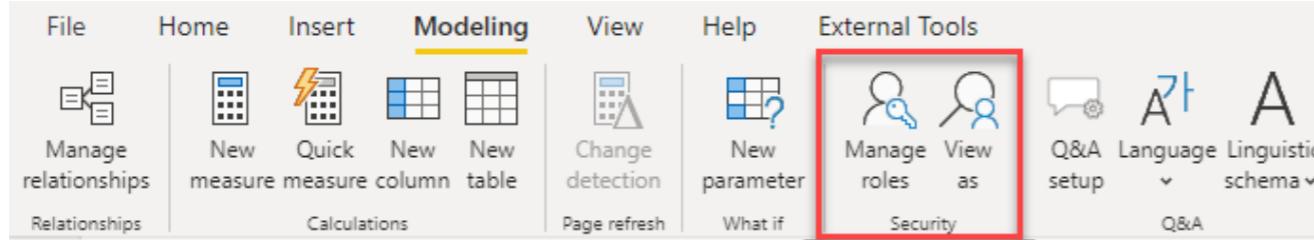
Name	Type
Wake County Restaurant Inspections	Report
Wake County Restaurant Inspections	Dataset

The 'Send link' dialog has the following fields:

- Recipient type: 'People in your organization' (selected)
- Specific people: A dropdown menu is open, showing three options: 'People with existing access' and 'Specific people'. The 'Specific people' option is highlighted with a red box.
- Settings:
 - Allow recipients to share this report
 - Allow recipients to build content with the data associated with this report
- Buttons: 'Apply' (yellow) and 'Cancel'

Row-level security (RLS)

- Restrict data access for given users
- Create filters to show or hide specific rows based on the current user's access rights
- Filters defined for **roles**
- Use Power BI Desktop to define roles
- Use Power BI Service to assign users and groups to roles



The screenshot shows the Power BI Desktop ribbon with the 'Modeling' tab selected. The 'External Tools' group contains icons for 'Manage roles' and 'View as'. The 'Manage roles' icon is highlighted with a red box.

Row-Level Security

Town of Cary (0)

Members (0)

People or groups who belong to this role

Enter email addresses

Add

Save Cancel

Row-level security limitations

- Performance will be slower due to additional processing requirements
- Users with dataset Write permissions will see all data--in practice, row-level security is limited to Viewers

Sensitivity labels

- Guard sensitive content against unauthorized data access and leakage
- Sensitivity labels with encryption settings may affect access to content in Power BI Desktop
- Power BI admins can block export of sensitive data
- Sensitivity labels may change--people with the ability to set sensitivity labels may change them
- All changes are tracked in the Power BI audit log

Settings for Wake County Rest...

Change default visual interaction from cross highlighting to cross filtering.

Export data

Choose the type of data you allow your end users to export.

Sensitivity label

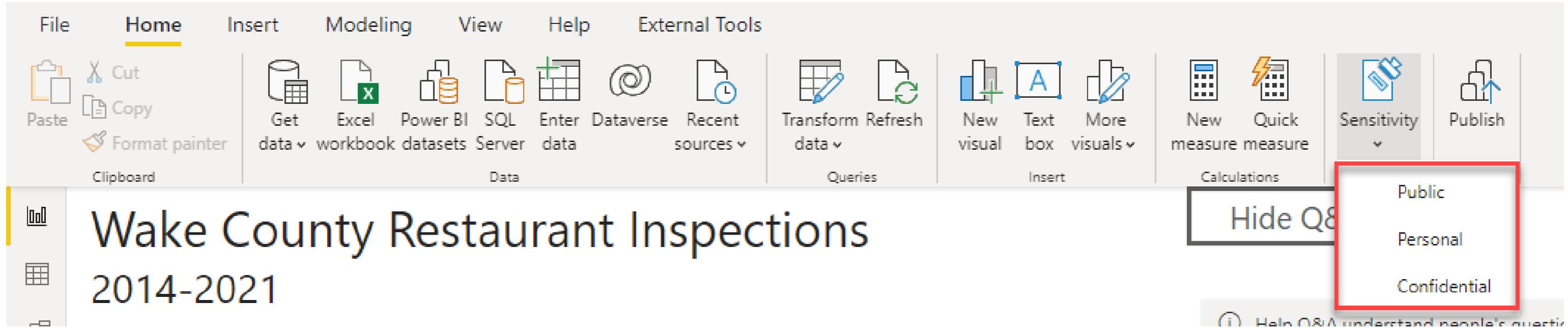
Classify the sensitivity of this report content. [Learn more](#)

Apply this label to the report's downstream content
[Learn more](#)

[See the downstream items in lineage view](#)

To set sensitivity labels

- Sensitivity labels must be set up in the Microsoft 365 Compliance Center
- Sensitivity labeling must be enabled for the organization
- Must be logged in
- Must have Power BI Pro or Premium Per User license
- Must have edit permissions on the content you wish to label



Let's practice!

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Manage dataset permissions

DEPLOYING AND MAINTAINING ASSETS IN POWER BI



Full Name

Instructor

Let's practice!

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Apply sensitivity labels

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Full Name

Instructor

Let's practice!

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