

Security & Administration



- ➤ Data Security
- ☐ Row Level Security
- Administration



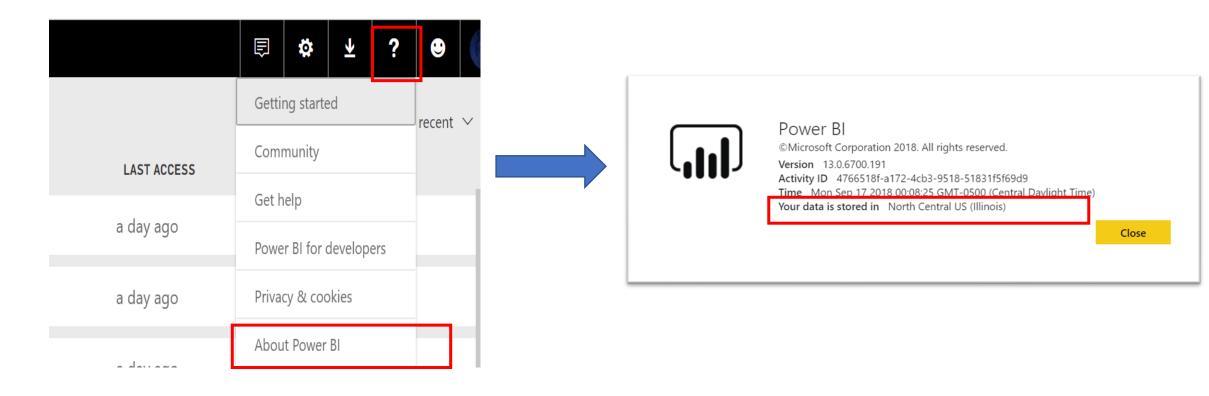
Types of Data

- Power BI offers three types of data
 - Imported Data Data is cached in Power BI and refreshed using saved credentials
 - Live Connected (DirectQuery) data is pulled into Power BI at query time.
 - Pushed Data Data is pushed to Power BI by external applications using REST API
- Data phases
 - In Transit moving between source, Power BI or Client (Consumer) will always be encrypted by either Azure Service Bus or HTTPS protocol
 - In Process being loaded to cloud-based memory
 - At Rest stored in cloud-based storage.



Data Storage Location

Location of your data





Compliance

Global	US Government	Industry	Regional
CSA-STAR-Attestation	CJIS	23 NYCRR Part 500	CCSL/IRAP (Australia)
CSA-Star-Certification	DoD DISA L2	FFIEC	EU-Model-Clauses
ISO 27001	DoD DISA L4	FISC (Japan)	EU-U.S. Privacy Shield
ISO 27018	DoD DISA L5	GLBA	GB 18030 (China)
	DoD DISA L2, L4, L5	HIPAA/HITECH	GDPR (EU)
	FedRAMP	HITRUST	MeitY (India)
	FERPA	PCI DSS	NZ CC Framework (New Zealand)
	FIPS 140-2	SOX	UK-G-Cloud

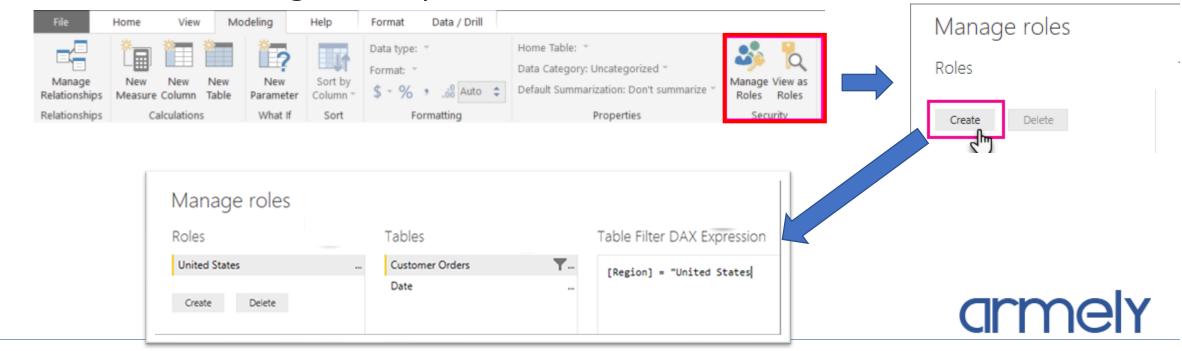


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Row Level Security (RLS)

- RLS schema based security on named roles
 - Roles can be defined in SQL Server (Tabular Model)
 - Power BI Desktop Project Based
- Roles defied using DAX Expressions



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Data Limitations

- Data Size Limit Data size is limited to 1 GB for each dataset in Power BI Service
- Row Limit
 - 2 Billion Rows for dataset not using DirectQuery
 - 1 Million Rows for dataset using DirectQuery
- Column Limit 16,000 columns in both Power BI Desktop and Service

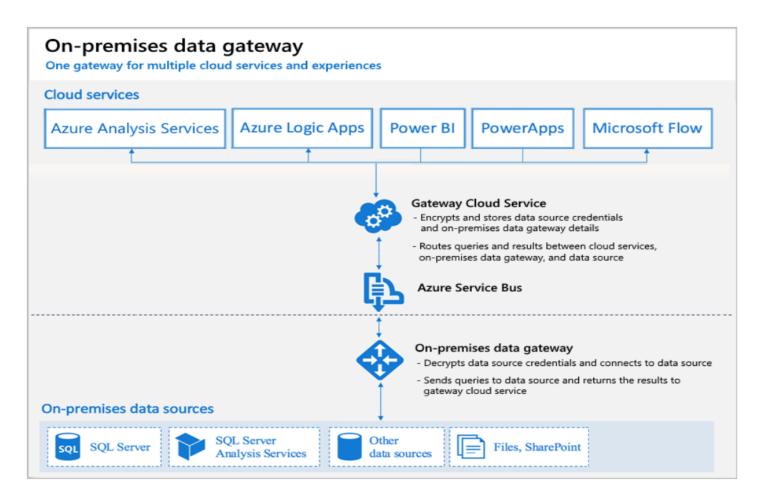


Gateway

- Power BI Gateway secure tunnel between On-premise network and Cloud
- Facilitates data access in the network keeping data secure
- Gateway Types
 - Personal Mode personal, cant be shared.
 - Enterprise Mode enterprise, connects multiple on-premise sources. Can be used by Power BI, PowerApps, Flow, Azure Analysis and Logic Apps.



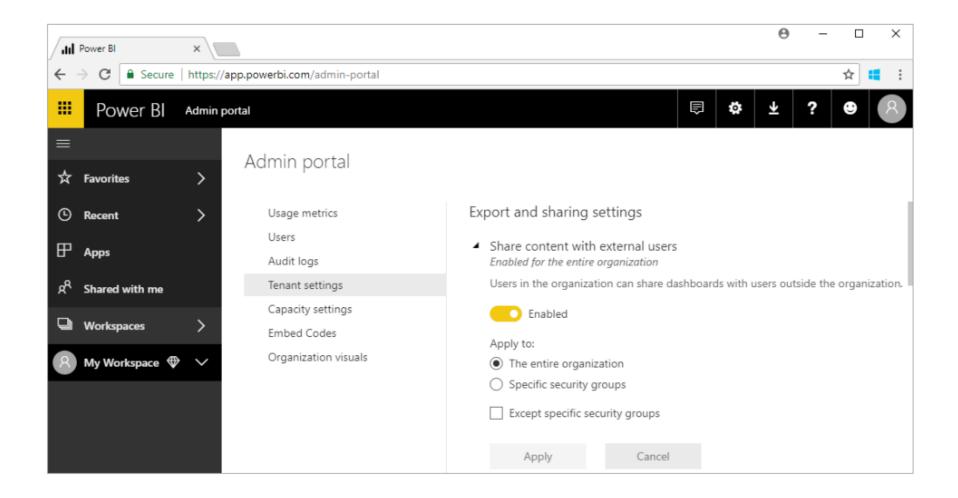
Gateway



- Cloud Service Requests Data
- Gateway (cloud service) analyzes request pushes it to Service Bus
- On-Prem polls Service
 Bus, decrypts connection
 and connects to data
 source
- Query Sent to data source
- Results sent to Cloud



Other Administration







Administration DEMO



- ✓ Data Security
- ✓ Row Level Security
- ✓ Administration

