



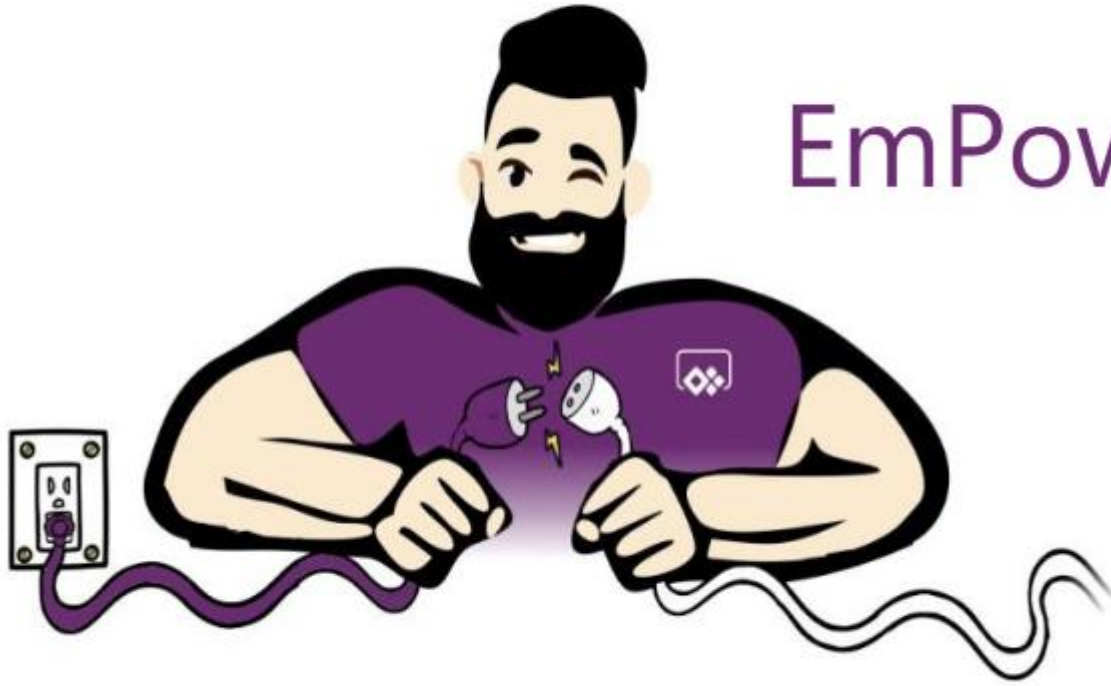
EmPower Your Career

Conference

April 3rd to 5th

365
SATURDAY

*"There can be no greater gift then that of giving one's time and energy
to help others without expecting anything in return"*
– Nelson Mandela



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Getting started with Power BI
Mihir Shah / Solution Architect



Getting started with Power BI

Mihir Shah

Solution Architect - IBM

@mihircrm

Blog – 365withoutcode.blogspot.com

Love visiting National Parks along with family camping and RV trips



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Agenda

- About Power BI
- Connecting to data
- Transforming / modelling
- Creating visuals
- Publish and sharing
- Insights and AI



Power BI – the UI for BI & AI

Why?

- To create, collaborate and present visual business insights from data
- Connectors for multiple sources of data
- AI powered data modelling (premium)

What ?

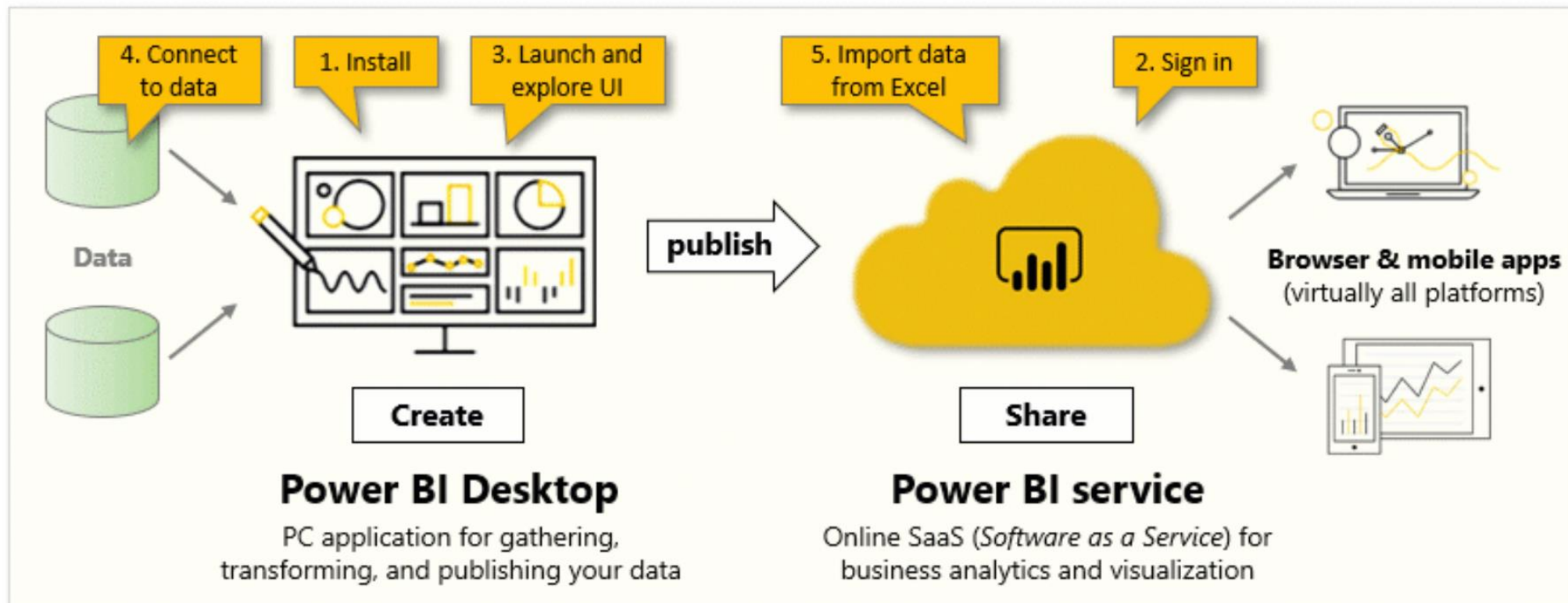
- Azure service
- Stores in Azure blob / Data lake (premium)
- Collection / Apps
 - Dataset
 - Reports
 - Dashboards
 - Insights

How ?

- PowerBi.com service
- Power BI Desktop
- Power BI Mobile
- Power BI Report Server (on premise)



Power BI –



Power BI – Licensing

Description	Free	Pro	Premium
Create visuals	Yes	Yes	Yes
Share visuals	No	Yes	Yes
View shared visuals	No	Yes	Yes
Dataset size (each)	1 GB	1 GB	10 GB
Storage (max)	10 GB	10 GB per user	100 TB
Environment	Shared	Shared	Dedicated
Max auto refresh 24hr	8	8	48
AI data modelling	No	No	Yes
Data Lake storage	No	No	Yes



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Power BI – Desktop Demo

- About Power BI ✓
- Connecting to data ←
- Transforming / modelling
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PowerBI.com – Service demo

- About Power BI ✓
- Connecting to data ✓
- Transforming / modelling ✓
- Creating visuals ✓
- Publish and sharing ←
- Insights and AI

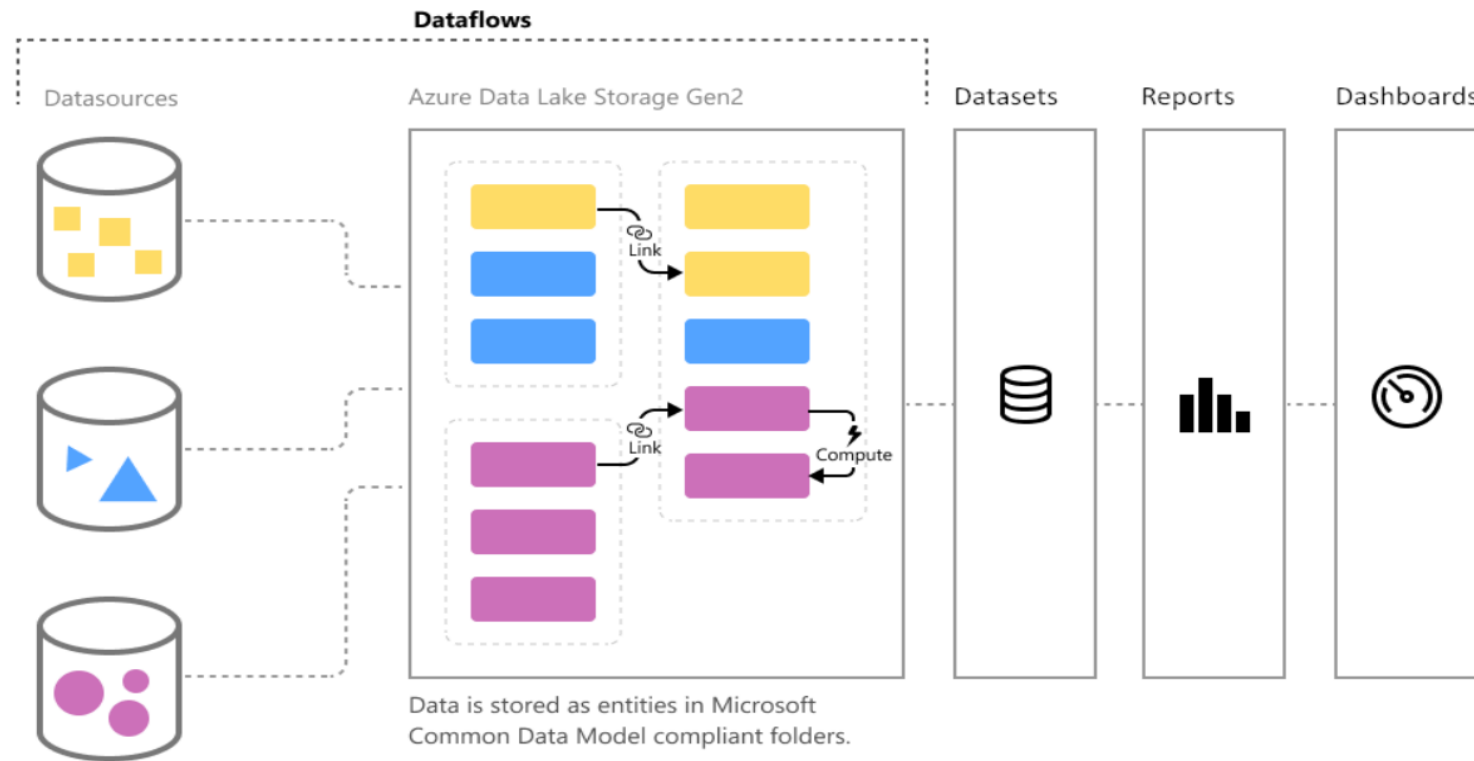


Power BI – Insights demo

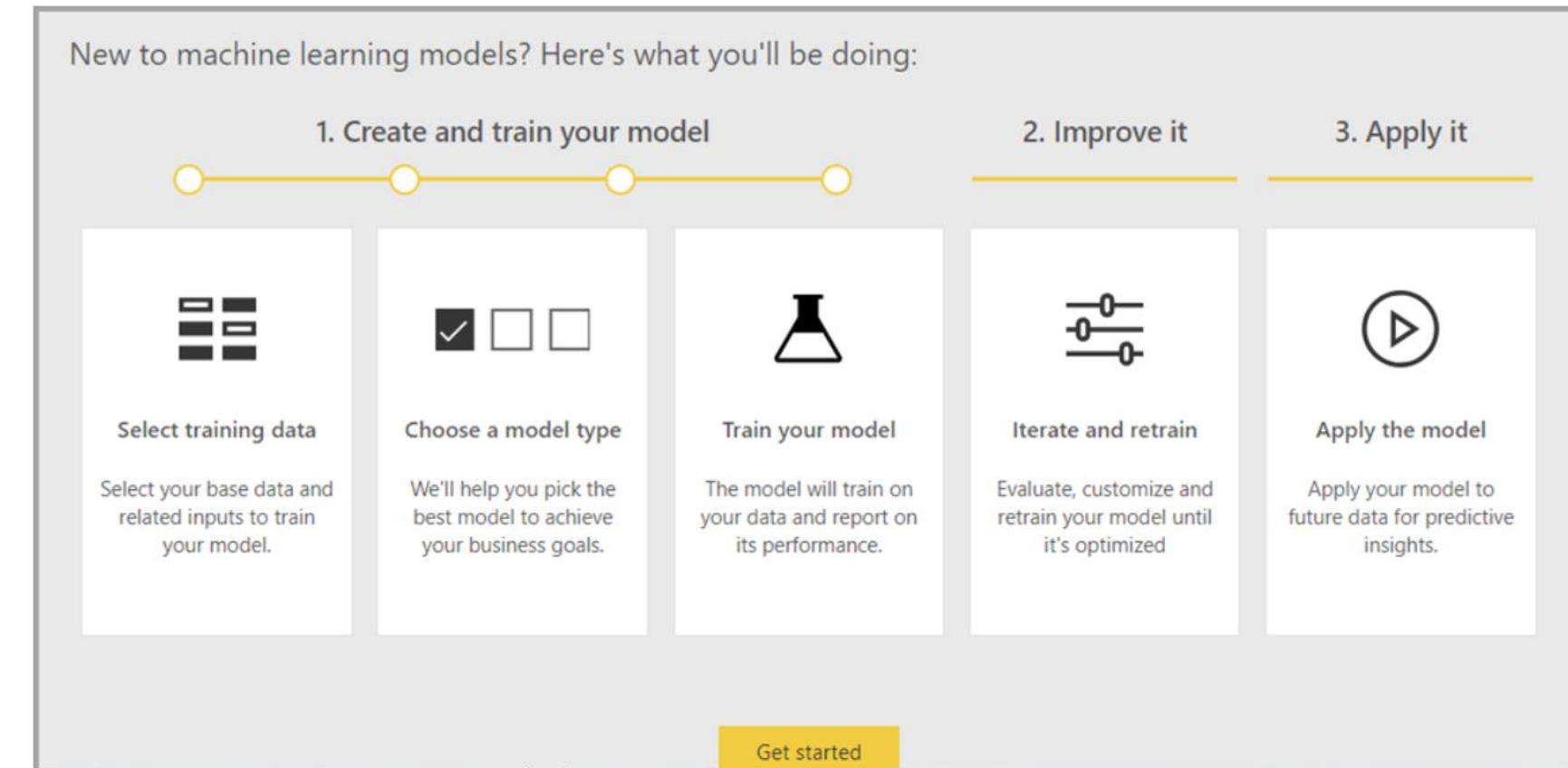
- About Power BI ✓
- Connecting to data ✓
- Transforming / modelling ✓
- Creating visuals ✓
- Publish and sharing ✓
- Insights and AI ←



Power BI – Data flow (premium)



Power BI – Auto ML (premium)



Power BI – Cognitive Services

Azure Cognitive Services

- Sentiment Analysis
- Key Phrase Extraction
- Language Detection
- Image Tagging

The screenshot shows the Power BI interface with a Power Query editor. The table contains hotel reviews with columns for date, text, title, image, and sentiment scores. A dialog box is open for applying Cognitive Services, showing options for sentiment analysis and language detection.

	reviews_dateAdded	reviews_text	reviews_title	Image	CognitiveServices...	CognitiveServices...
1	3/31/2017, 11:32:19 AM	We had A/C issues at 3:30 ...	Please Keep Away Until Co...	https://i.ytimg.com/vi/-3s...		
2	3/31/2017, 11:32:19 AM	A/C was broken. Hotel was...	Please Keep Away Until Co...	https://i.ytimg.com/vi/g/v...		
3	2/25/2017, 12:32:57 PM	We had a one night stay at...	worst ever !	https://i.ytimg.com/vi/xcf...		
4	3/31/2017, 11:32:19 AM	Elevator was broken.	Gutes Preis- Leistungsverh...	https://media-cdn.tripadv...		
5	2/25/2017, 12:32:57 PM	Unprepared for the unwelc...	Very much a budget place	https://media-cdn.tripadv...		
6	3/31/2017, 11:32:19 AM	I expected that the Jacuzzi...	Did not live up to the Hilo...	https://media-cdn.tripadv...		
7	2/25/2017, 12:32:57 PM	For the price that I paid for...	Rooms	https://media-cdn.tripadv...		
8	3/31/2017, 11:32:19 AM	At Night A/C very loud, als...	AC in room Too loud!	https://media-cdn.tripadv...		
9	3/31/2017, 11:32:19 AM	The A/C in my room broke...	Don't waste your money	https://media-cdn.tripadv...		
10	3/31/2017, 11:32:19 AM	Great beach park off the la...	Nice surprise.	https://s3-media1.fl.yelpc...		
11	3/31/2017, 11:32:19 AM	Our room was on the bott...	Great staff, excellent getaw...	https://s3-media1.fl.yelpc...		
12	2/25/2017, 12:32:57 PM	We spent 2 weeks in this h...	IN SEVERE NEED OF UPDA...	https://s3-media1.fl.yelpc...		
13	3/31/2017, 11:32:19 AM	Terrible view from my \$300...	Beautiful renovations locat...	https://s3-media1.fl.yelpc...	0.422	[Record]
14	2/25/2017, 12:32:57 PM	Older property but it is su...	Combines great price with ...	https://s3-media1.fl.yelpc...	0.713	[Record]
15	2/25/2017, 12:32:57 PM	We stayed here for over a ...	Affordable, Clean, Friendly ...	https://s3-media1.fl.yelpc...	0.665	[Record]
16	2/25/2017, 12:32:57 PM	When we had booked this ...	Average	https://s3-media1.fl.yelpc...	0.546	[Record]
17	2/25/2017, 12:32:57 PM	Loved the beach and service	Well the location is nice	https://s3-media1.fl.yelpc...	0.705	[Record]
18	2/25/2017, 12:32:57 PM	I hesitate to share negative...	Advertisement Sham	https://s3-media1.fl.yelpc...	0.336	[Record]
19	3/31/2017, 11:32:19 AM	Beautiful renovation. The h...	Beautiful renovations locat...	https://s3-media2.fl.yelpc...	0.917	[Record]
20	2/25/2017, 12:32:57 PM	Positives: Location! It is on ...	Location!	https://s3-media2.fl.yelpc...	0.577	[Record]
21	3/31/2017, 11:32:19 AM	This hotel is on the beach ...	Great Location	https://s3-media2.fl.yelpc...	0.794	[Record]
22	2/25/2017, 12:32:57 PM	Clean room, old style, 196...	Location	https://s3-media2.fl.yelpc...	0.654	[Record]
23	2/25/2017, 12:32:57 PM	The accommodation is bas...	Polynesian Plaza, Honolulu	https://s3-media2.fl.yelpc...	0.591	[Record]



Q&A

References –

- Power BI documentation
<https://docs.microsoft.com/en-us/power-bi/>
- Power BI learning
<https://powerbi.microsoft.com/en-us/learning/>



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Thank You for Attending