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Azure Databricks & Dashboards

Azure Databricks Dashboards

AI/BI Dashboards

- AI/BI Dashboards streamline this process with an AI-powered, low-code authoring experience that simplifies data and visualization configuration.
- These dashboards include standard BI capabilities such as visualizations, cross-filtering, and periodic PDF snapshots via email.
- They do not require semantic models, data extracts, or additional management services.

AI/BI dashboards have the following components:

- **Data**: The **Data** tab allows users to define datasets for use in the dashboard. Datasets are bundled with dashboards when sharing, importing, or exporting them using the UI or API.

- **Canvas**: The **Canvas** tab can be organized into multi-page reports. Dashboard editors can build and configure their dashboards by adding widgets such as visualizations, filters, text, and images.

Notebook Dashboards

Databricks **Notebook Dashboards** are a way to present and share the output of notebook cells in a structured format. They allow users to transform a notebook into a dashboard, making it easier to visualize and communicate results.

Key Features of Notebook Dashboards

- **Tied to Notebook Cells**: The dashboard content is directly linked to the output of notebook cells. If a cell output is cleared, the dashboard content disappears.
- **Presentation Format**: They reformat a notebook into a shareable presentation, making it easier to display results.
- **Limited Interactivity**: Users can view and schedule notebook dashboards, but they don’t offer advanced filtering or independent user sessions.
- **Quick Setup**: You can create a dashboard by adding visualizations or tables from notebook cells.

AI/BI Dashboards Vs. Notebook Dashboards

Notebook Dashboards

- Tied to Notebook Cells: The dashboard content is directly linked to the output of notebook cells. If a cell output is cleared, the dashboard content disappears.
- Presentation Format: These dashboards reformat a notebook into a shareable presentation, making it easier to display results.
- Limited Interactivity: Users can view and schedule notebook dashboards, but they don't offer advanced filtering or independent user sessions.

AI/BI Dashboards

- Standalone Dashboards: Unlike notebook dashboards, AI/BI dashboards are independent and designed for broader organizational sharing.
- Advanced Features: They include AI-assisted authoring, enhanced visualization libraries, and multi-page reports.
- Better Scalability: AI/BI dashboards allow for cross-workspace import/export, version control, and independent user sessions, meaning multiple users can interact with them without affecting each other.
- SQL-Based Visualizations: Only visualizations from SQL cells can be added to AI/BI dashboards.

AI/BI Dashboards Demo

Azure Databricks & Power BI

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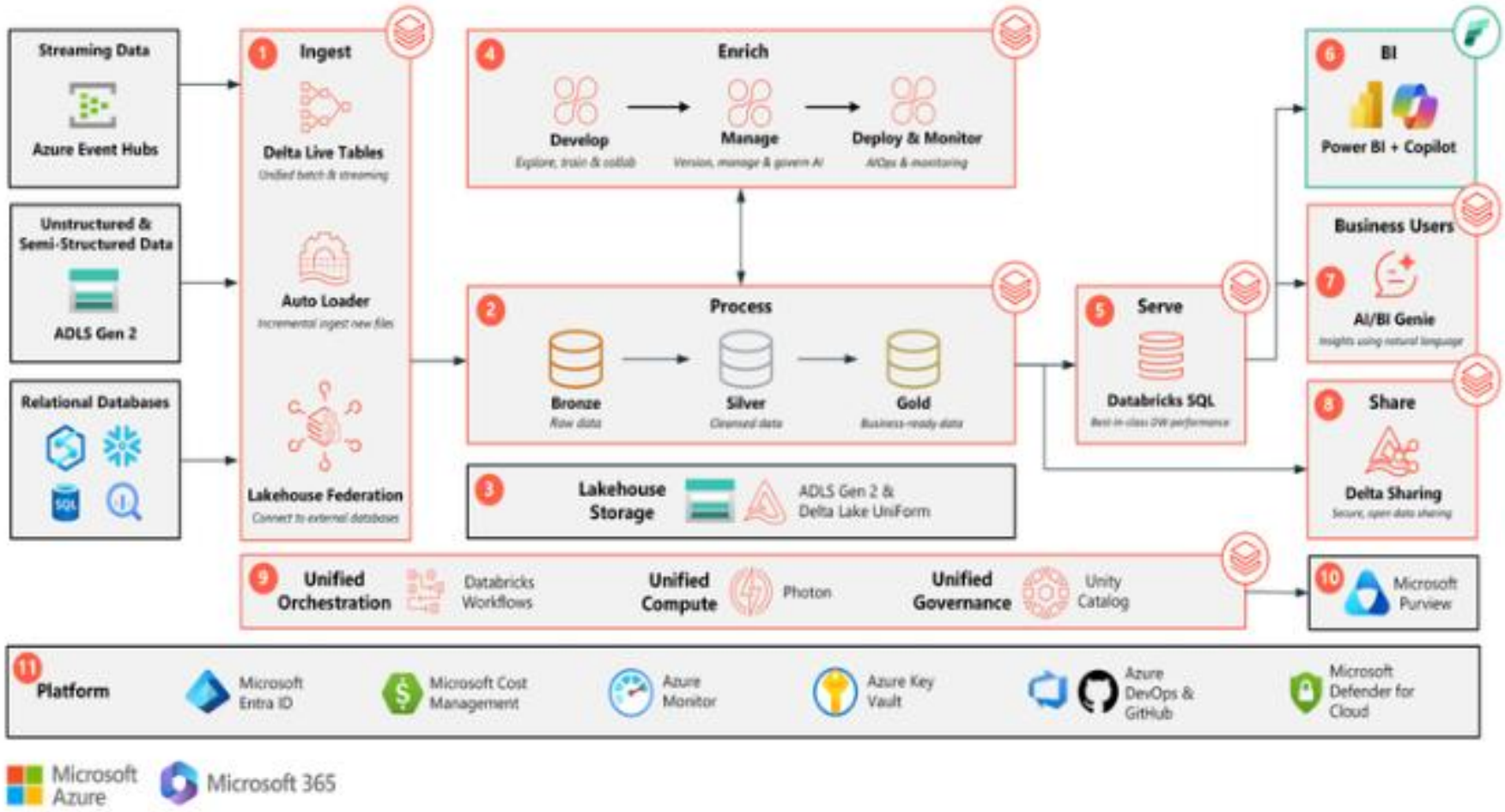
Azure Databricks End-to-End with Power BI

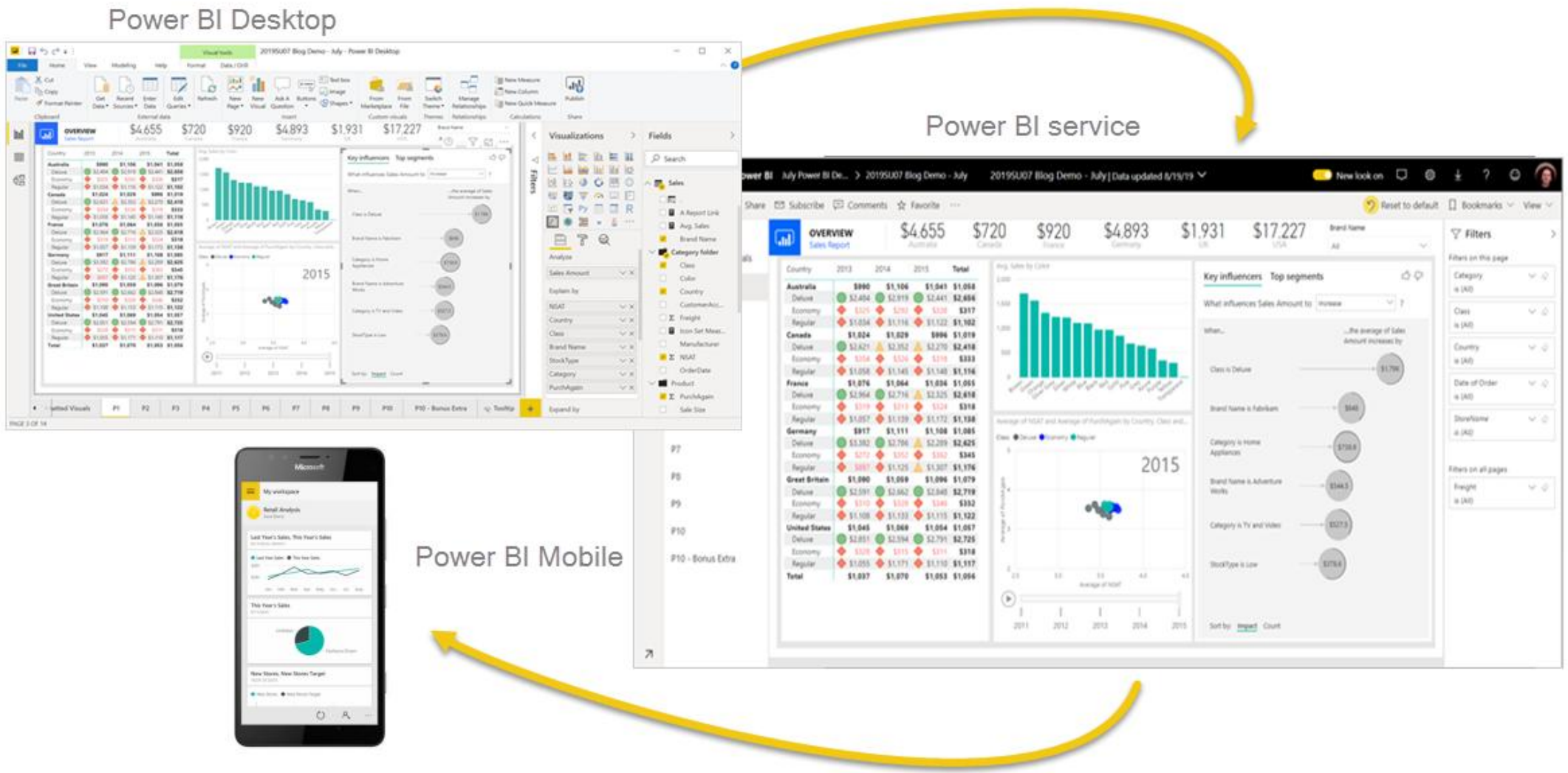


Power BI

Connect to and visualize any data

- Create impactful visualizations without significant expertise
- Gain valuable insights into business data in real time
- Make data-driven decisions
- Streamline data management
- Leverage integration with Microsoft tools and effortlessly collaborate

The parts of Power BI



Connect Power BI to Azure Databricks

- Power BI Desktop ‘GetData’
- Azure Databricks Publish to Power BI Workspace or Power Bi Desktop

DEMO