



# SQL SATURDAY ATLANTA 2025 - AI & BI (#1102)

08 March 2025

**Mastering Data Governance with Microsoft Purview**

**SPEAKER** Jeremy Nathan

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# AGENDA

- Purview Pricing
- Setting Up Microsoft Purview
- Set Up Permissions
- Types of Data You Can Scan
- Create Scans of Azure Data Lake Storage (ADLS) and Fabric Data



# WHAT IS MICROSOFT PURVIEW?

- Data Governance and Compliance
- One Place to Manage Data Across the Organization



# SUPPORTED DATA SOURCES

- Databases
  - Supports SQL-based systems like Azure SQL Database, SQL Server on-premises, Oracle, Teradata
  - Includes NoSQL databases such as Azure Cosmos DB
- Data Lakes
  - Scans Azure Data Lake Storage (ADLS) Gen1 and Gen2
- File Systems
  - Includes on-premises file shares and cloud-based storage like Azure Blob Storage

# DATA SECURITY AND QUALITY

- Enhanced Data Security
  - Robust access control system with roles and permissions
  - Prevents unauthorized data access
  - Cloud-based service adds protection against physical access
- Improved Data Quality
  - Reliable and accurate data management
  - Effective data cleaning
  - Offers various data-enhancing features





# LICENSING REQUIREMENTS

- Microsoft 365 Licensing
  - Requires Microsoft 365 E3 or E5 license
- Copilot Security Account
  - Needs a Copilot Security account in Azure

# PAY-AS-YOU-GO PRICING MODEL

- Approximately \$0.0165 per asset per day
- Around \$0.50 per asset per month
- For example, each report in Power BI is one asset

# COST CALCULATIONS FOR OTHER DATA SOURCES

- Cost for Other Data Sources
  - Based on scan duration and computational resources
  - Example: 32 vCores for one minute at \$0.011 per vCore-minute costs \$0.34
- Data Map Enrichment - Advanced Resource Set
  - Rate: \$0.21 per vCore-hour
  - Total cost: \$153.30
- Report Generation
  - Rate: \$0.82 per vCore-hour
  - Total expense: \$598.60

# CREATING A PURVIEW ACCOUNT

- Navigate to Azure Portal
  - Go to [portal.azure.com](https://portal.azure.com)
  - Access Home > Purview > Create
- Select Subscription
  - Ensure correct subscription is chosen
- Choose Resource Group
  - Create a new resource group or select an existing one
  - New resource group should meet Azure naming requirements
- Resource Group Naming Requirements
  - Length: 1 to 90 characters
  - Characters: Only alphanumeric, underscores, parentheses, hyphens, and periods
- Type Microsoft Purview Account Name



# MANAGED IDENTITY SETUP

- Accessing Purview Account
  - Navigate to [portal.azure.com](https://portal.azure.com)
  - Select Purview Account
- Enabling Managed Identities
  - Click on Managed Identities (preview)



# AUTHENTICATION OPTIONS

- Managed Identity
  - Most straightforward option
  - Uses Purview's built-in identity
- Delegated Authentication
  - More complex setup
  - Purview acts on behalf of another authenticated user





# ACCESS CONTROL STRATEGIES

- Minimize Global Administrator Role Usage
  - Improves security for the organization
  - Reduces the number of users with extensive permissions
- Implement Least Privilege Access Control
  - Grant administrators only the permissions they need
  - Enhances overall security
- Follow Microsoft's Recommended Practices
  - Use roles with the fewest permissions
  - Plan access control strategy effectively

# PERMISSION ROLES

Role	Description
Global administrator	Access to all administrative features in all Microsoft 365 services. Only global administrators can assign other administrator roles. For more information, see <a href="#">Global Administrator / Company Administrator</a> .
Compliance data administrator	Keep track of your organization's data across Microsoft 365, make sure it's protected, and get insights into any issues to help mitigate risks. For more information, see <a href="#">Compliance Data Administrator</a> .
Compliance administrator	Help your organization stay compliant with any regulatory requirements, manage eDiscovery cases, and maintain data governance policies across Microsoft 365 locations, identities, and apps. For more information, see <a href="#">Compliance Administrator</a> .
Security operator	View, investigate, and respond to active threats to your Microsoft 365 users, devices, and content. For more information, see <a href="#">Security Operator</a> .
Security reader	View and investigate active threats to your Microsoft 365 users, devices, and content, but (unlike the Security operator) they don't have permissions to respond by taking action. For more information, see <a href="#">Security Reader</a> .
Security administrator	Control your organization's overall security by managing security policies, reviewing security analytics and reports across Microsoft 365 products, and staying up-to-speed on the threat landscape. For more information, see <a href="#">Security Administrator</a> .
Global reader	The read-only version of the <b>Global administrator</b> role. View all settings and administrative information across Microsoft 365. For more information, see <a href="#">Global Reader</a> .
Attack simulation administrator	Create and manage all aspects of attack simulation creation, launch/scheduling of a simulation, and the review of simulation results. For more information, see <a href="#">Attack Simulation Administrator</a> .
Attack payload author	Create attack payloads but not actually launch or schedule them. For more information, see <a href="#">Attack Payload Author</a> .

<https://learn.microsoft.com/en-us/purview/purview-permissions>

# UPDATING USER PERMISSIONS

1. Sign In to the Azure Portal
  1. Open a browser and navigate to the Azure portal
  2. Sign in with an administrator account
2. Navigate to Azure Active Directory
  1. Select 'Azure Active Directory' from the menu or search bar
3. Go to Users
  1. Select 'Users' under the 'Manage' section
4. Select the User to Update
  1. Search for the user and open their profile
5. Update User Role or Permissions
6. Review and Save Changes
7. Notify the User

# PURVIEW LOCATION

<https://purview.microsoft.com/>

## Welcome to the Microsoft Purview compliance portal

[Intro](#)   [Next steps](#)   [Give feedback](#)

Welcome to the Microsoft Purview compliance portal, your home for managing compliance needs using integrated solutions to help protect sensitive info, manage data lifecycles, reduce insider risks, safeguard personal data, and more. [Learn more about the Microsoft Purview compliance portal](#)

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- Purview for Compliance
  - Located in the same site as Purview Governance
  - Free version is limited
- Purview in Compliance Home Page
  - Opens in Defender's Compliance home page
- Purview Governance
  - Scans and views data
  - Requires a Purview account
  - This produces costs

# CREATING A DOMAIN

- Domains in Microsoft Purview
  - Foundational elements of the Data Map
  - Represent a top-level hierarchy
  - Provide structure in the data map
  - Enable domain administrators to maintain isolation
  - Control access through collections, data sources, scans, and roles
- Steps to Create a Domain
  1. Navigate to Domains from the Data Map tab
  2. Click the “+ New Domain (Preview)” button
  3. Enter the domain details
  4. Provide an identifying name

# CREATING A COLLECTION

- Purpose of Collections in Purview
  - Support organizational or suborganizational mapping of metadata
  - Manage and maintain data sources, scans, and assets within a business unit
- Characteristics of Collections
  - Belong to a domain
- Steps to Create a Collection
  1. Click Data Map
  2. Click Domains
  3. Expand the drop-down menu of the desired domain



# CREATING A DATA SOURCE

- Registering Data Source
  - Click “Register”
- Accessing Data Map
  - Click on the Data Map tab
- Selecting Domain
  - Click “Domains”
  - Choose the desired domain



# SCAN A DATA SOURCE

- Click the bullseye icon to scan
- Setting the Scan
  - Set the scan to Auto-detect
  - Auto-detect covers all three levels
- Running the Scan
  - Continue, save, and run the scan
  - Scan rule sets and scan triggers are features



# HOW TO REDUCE COSTS

- Delete Domains, Collections and Data Sources



# CHALLENGES AND LEARNING CURVE

- Common Challenges
  - Initial setup complexity
  - Integration of various components
  - Steep learning curve
- Benefits
  - Effective data management
  - Secure data storage
  - Enhanced data protection

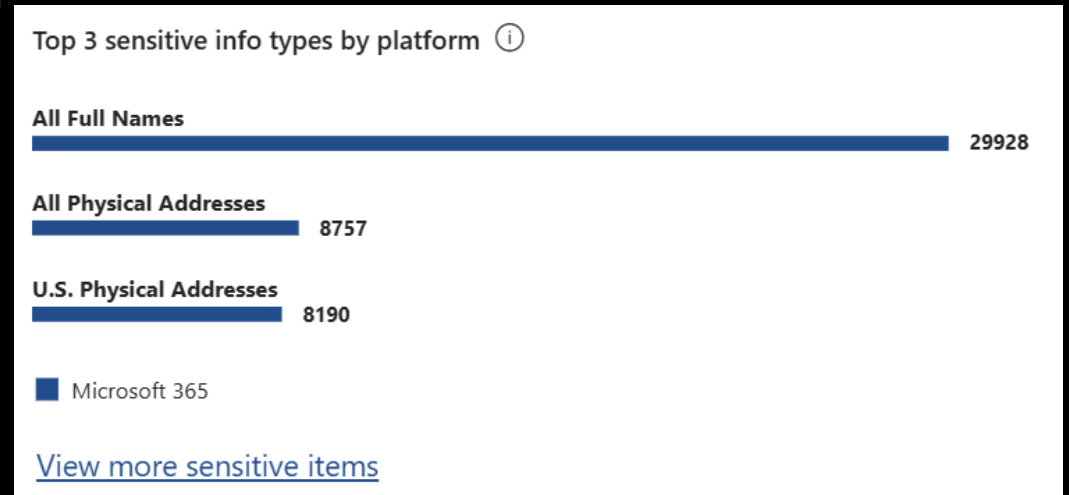


# DATA COMPLIANCE

- Information Protection
  - Sensitivity Labels
- Communication Compliance
  - From Outlook, Teams, etc.
- Data Lifecycle Management
  - Retention labels
  - Data Classifiers

# VIEW DATA SENSITIVITY LABELS

1. Scroll down on <https://purview.microsoft.com/>
2. Click View more sensitive items
3. This takes you to Information Protection  
<https://purview.microsoft.com/informationprotection>
4. Expand explorers and click data explorer
5. Select the location





# THE END

Throughout the session, feel free to ask questions. Together, let's unlock the full potential of Purview to empower your data governance journey. Let's dive in!

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# SESSION EVALS

Please give session evaluations to the speaker in the room.



# CLOSING CEREMONY

Please join us in the in the **auditorium** for the closing ceremony **right after the last session** of the day.

This is where sponsors will give **raffle prizes**.

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