

Lab Exercise 9 – Security & Governance

Objective

By the end of this lab, you'll be able to:

- Create and assign **Permission Sets** for Data Cloud access.
- Apply **Field-Level Security (FLS)** to sensitive fields.
- Classify fields using **Data Classification Tags** (sensitivity & compliance).
- View and export **Setup Audit Trail** to monitor configuration changes.
- Understand Salesforce Data Cloud's **AI Tagging & Policy-Based Governance concepts**.

Step 1: Open Setup and Create a New Permission Set

1. Click the **gear icon → Setup**.
2. In the left search bar, type “**Permission Sets**” and open it.
3. Click **New Permission Set**.
4. Fill in details:
 - **Label:** Data Cloud Restricted Access
 - **API Name:** auto-fills
 - **User License:** choose Salesforce (or Data Cloud Admin if available).
 - **Description:** *Grants access to Data Cloud objects with restricted field visibility.*

5. Click **Save**.

Step 2: Assign Object Permissions

1. Within the Permission Set, under **Apps → Object Settings**, click **Data Model Objects (DMOs)**.

- For example, choose **Individual, Engagement Event, or Customer**.

2. Click the object name, then **Edit**.

3. Enable:

- **Read Access** → checked
- **Create/Edit/Delete** → unchecked (for minimal read-only access).

4. Click **Save**.

Step 3: Apply Field-Level Security (FLS) to a Sensitive Field

1. Still inside the same Permission Set, scroll down and click **Field Permissions**.

2. Locate a sensitive field such as Email, MobilePhone, or SSN (if available in your DLO/DMO).

3. Click **Edit**.

4. Adjust access:

- **Read Access:** checked
 - **Edit Access:** unchecked
5. For fields like SSN or CreditCardNumber, uncheck both Read and Edit Access.
 6. Click **Save**.

This simulates masking sensitive PII for users without data clearance.

Step 4: Assign the Permission Set to a User

1. From the Permission Set detail page, click **Manage Assignments** → **Add Assignments**.
2. Select your user record and click **Assign**.
3. Click **Done**.
4. Log out and back in (or use another test user) to verify the field restrictions take effect.

Step 5: Validate Restricted Field Visibility

1. Open **Data Explorer** → **Individual DMO**.
2. Attempt to preview records as the user with restricted access.
3. You should notice the sensitive field (e.g., Email or SSN) is **hidden** or not editable.

Result: You've successfully implemented FLS through a Permission Set and verified its impact within Data Cloud.

Hands-on 5.2 – Classify Fields for Governance (Sensitivity & Compliance Tags)

Step 1: Open Field Definition

1. From **Setup**, go to **Object Manager** → **Individual** (or Customer DMO).
2. Click **Fields & Relationships**.
3. Select a field such as Email or Phone.

Step 2: Add Data Classification Tags

1. In the field detail view, scroll down to the **Data Classification** section.
2. Click **Edit**.
3. Assign values:
 - **Data Sensitivity Level:** Confidential
 - **Data Owner:** Sales Ops or Data Governance Team
 - **Compliance Category:** PII (Personal Identifiable Information)
4. Click **Save**.

These tags help governance teams enforce AI policies and comply with GDPR/CCPA.

Step 3: View AI Tagging & Policy-Based Governance (Conceptual Preview)

1. Go to **Data Cloud Setup** → **Governance Workspace** (if available in DE).
2. Explore “**AI Tagging**” or “**Policy Management**” sections (read-only in Developer Edition).

3. Observe how Data Cloud labels fields automatically based on sensitivity and usage.

Result: You've tagged fields for sensitivity and compliance, making your Data Cloud model governance-ready.

Hands-on 5.3 — View and Export Setup Audit Trail

Step 1: Open Setup Audit Trail

1. Click **Setup** → **Quick Find**: View Setup Audit Trail.
2. Click the link to open the **Audit Trail History page**.
3. Review entries for recent activities — you should see items like:
 - *Created Permission Set*
 - *Updated Field-Level Security*
 - *Changed Data Classification Tags*

Step 2: Export Audit Trail to File

1. At the top of the page, click **Download Setup Audit Trail**.
2. A .CSV file will download containing the last 6 months of changes.
3. Open it in Excel or Google Sheets and review columns:
 - Action, Section, Created By, Date and Time, Client IP.

4. Filter by your username to see your own changes.

Result: You've viewed and exported Setup Audit Trail entries for monitoring system activities — key for governance and compliance.

Expected Outcomes

- Understand and apply Permission Set and FLS controls to Data Cloud objects.
- Tag sensitive fields with data classification for governance.
- Retrieve and analyze Setup Audit Trail records.
- Recognize AI tagging and policy management concepts for enterprise-grade governance.