# SAP BTP Data-to-Value Hands-on Exercise Series
## DV150 Exercise03 – Connecting Amazon S3 to SAP Data Intelligence Cloud

This document will guide you step by step on the process of connecting Amazon S3 (archived historic book sales data) with SAP Data Intelligence Cloud

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**DISCLAIMER**

All functionality presented here is subject to change and may be changed by SAP at any time for any reason without notice.

**OBJECTIVE**

The objective of this exercise is to guide you through how to connect Amazon S3 system with SAP Data Intelligence Cloud.
This document is aimed for 'beginner' level.

**SCENARIO**

Per our bookshop storyline there are 3 data sources:

- The live book sales data (2020~2021) is available in SAP S/4HANA Cloud.
- The archived historical book sales data (2011~2019) resides in Amazon S3 bucket.
- The bookshop solution data locates on SAP HANA Cloud.

SAP Data Intelligence cloud will be used to bring the book sales data together from different sources with data pipelines, orchestrate and operationalize the machine learning scenarios. In this exercise, we will cover how to connect Amazon S3 system to SAP Data Intelligence Cloud.

# Storyline about a bookshop for Data-to-Value workshop
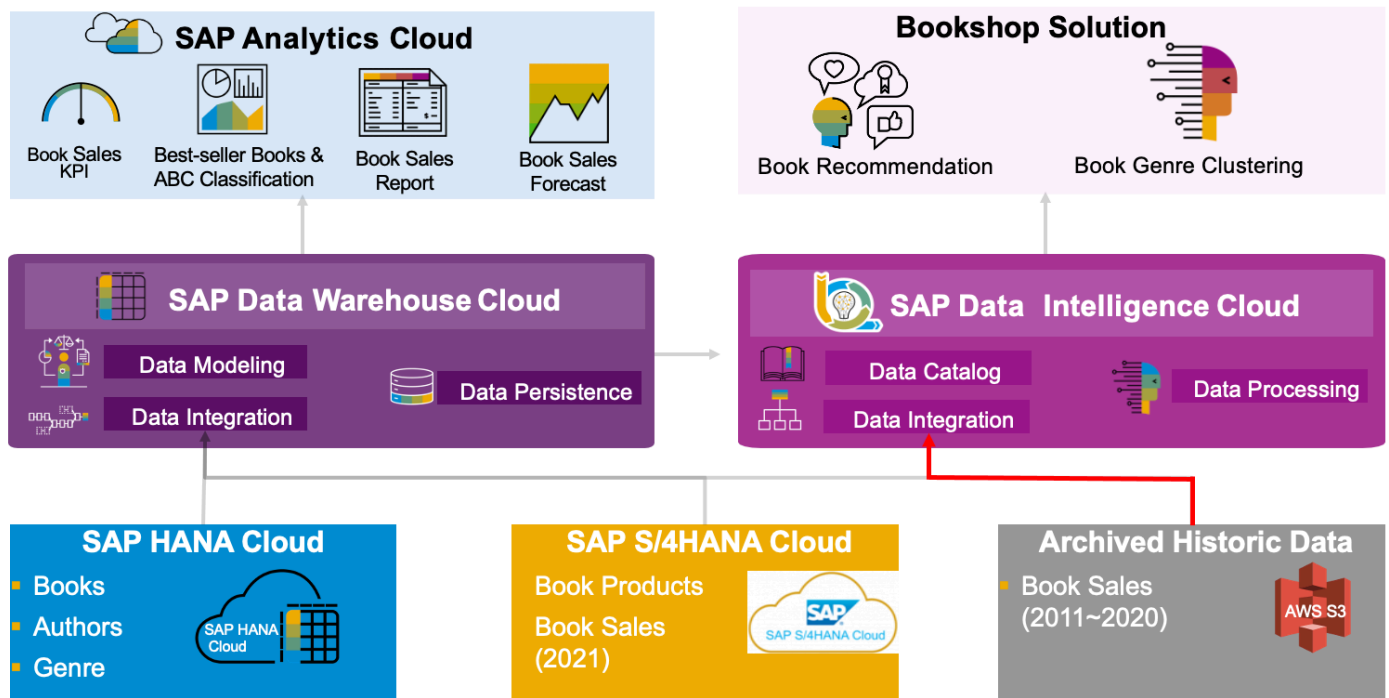
## ENVIRONMENT ACCESS

**Before proceeding with the exercise, please obtain the Tenant details and Login Credentials of SAP Data Intelligence Cloud and Amazon S3 provided to you as instruction below.**

**SAP Data Intelligence Cloud** (to login SAP Data Intelligence Cloud and perform the exercise):

- Tenant URL
- Username: Your assigned User ID
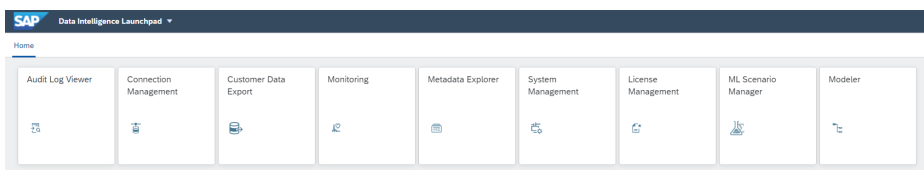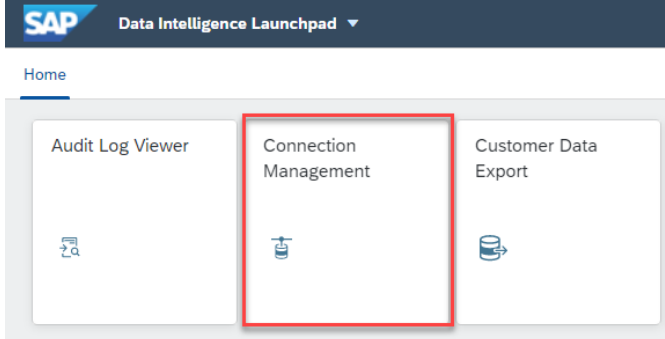- Password: Your assigned User Password

**Amazon S3** (connection details to be used to create a connection of Amazon S3 in the exercise steps below):
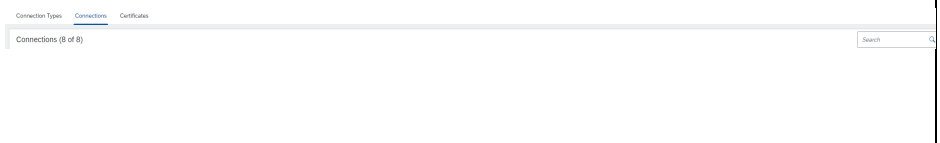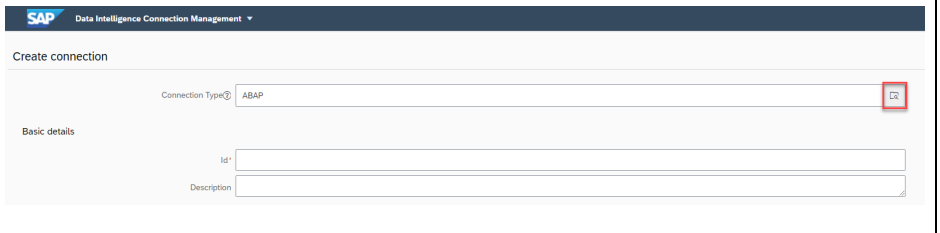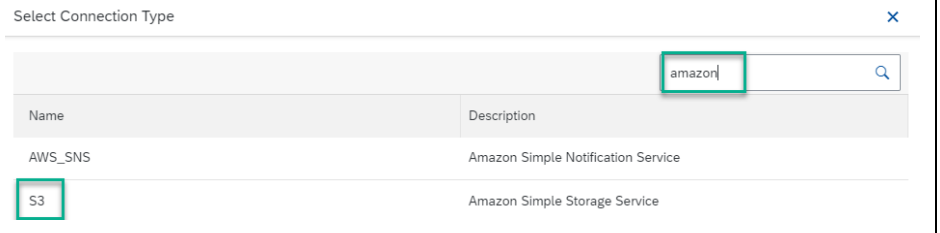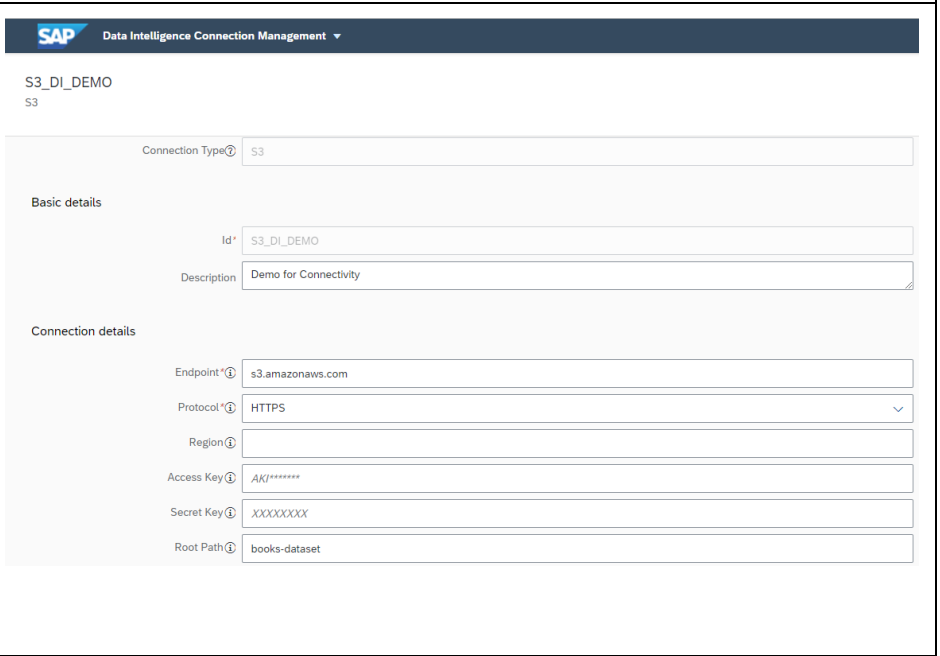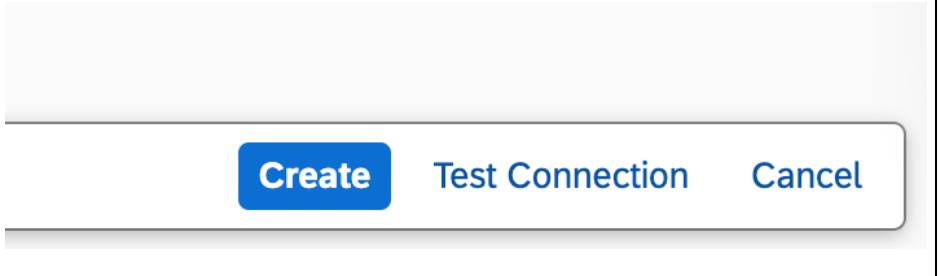
- Endpoint
- Root Path
- Access Key
- Secret Key
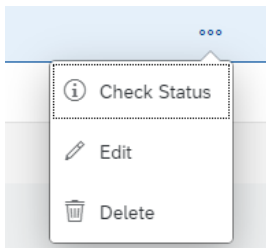
For the Bootcamp participants, please use the SAP Data Intelligence Cloud tenant and Amazon S3 system provided by SAP, as well as your assigned user id and password:

- The SAP Data Intelligence cloud tenant URL is available in the dedicated **Microsoft Teams > General (Channel) > System Access (Tab) > SAP Data Intelligence Cloud (Section)**, which you have been invited.
    - Your assigned user id and password for SAP Data Intelligence Cloud are communicated individually via email.
- The connection details of Amazon S3 is available in the dedicated **Microsoft Teams > General (Channel) > System Access (Tab) > Amazon S3 (Section)**, which you have been invited.

## EXERCISE STEP DETAILS

| Explanation | Screenshot |
|---|---|
| Log on SAP Data Intelligence Cloud with the given tenant URL and assigned user credential mentioned above<br><br>Go to the Home screen. | |
| Click on the Connection Management Tile. | |

| Explanation | Screenshot |
|---|---|
| In the next screen on the Connections tab, click ➕ to add a connection. | Connection Types  Connections  Certificates<br><br>Connections (8 of 8)                                                      Search |
| Select the Search option. | **SAP**  Data Intelligence Connection Management ▼<br><br>Create connection<br><br>Connection Type⑦  ABAP<br><br>Basic details<br><br>Id*<br>Description |
| Filter by Amazon and Select S3. | Select Connection Type                                          ✕<br><br>                                              amazon            🔍<br><br>Name                          Description<br><br>AWS_SNS                       Amazon Simple Notification Service<br><br>S3                            Amazon Simple Storage Service |
| In the next screen, enter the required details:<br><br>**-ID:** S3_<USERID>.<br>Please, assure to follow the naming conversion for the connection id here, replace <USER_ID> with your assigned user id.<br>**-Endpoint:**<br>**-Access Key:**<br>**-Secret Key:**<br>**-Root Path:**<br><br>All the connection details are provided in the ENVIRONMENT ACCESS section in the beginning of this exercise. | **SAP**  Data Intelligence Connection Management ▼<br><br>S3_DI_DEMO<br>S3<br><br>Connection Type⑦  S3<br><br>Basic details<br><br>Id*  S3_DI_DEMO<br>Description  Demo for Connectivity<br><br>Connection details<br><br>Endpoint*ⓘ  s3.amazonaws.com<br>Protocol*ⓘ  HTTPS<br>Regionⓘ<br>Access Keyⓘ  AKI*******<br>Secret Keyⓘ  XXXXXXXX<br>Root Pathⓘ  books-dataset |
| Click Test Connection and assure the connection is valid. | **Create**    Test Connection    Cancel |
| Click Create to create the connection. | **Create** |

| Explanation | Screenshot |
|---|---|
| On the main page you see the connection just created, select it, click ⠿ , and click Check the Status. | ⠿<br><br>ⓘ Check Status<br><br>✏ Edit<br><br>🗑 Delete |
| Check the Status. It should popup an OK message.<br><br>As a result, the connection of Amazon S3 is ready in SAP Data Intelligence Cloud. | Connection status     ✕<br><br>⊘ OK<br>    Connection Id : S3_DI_DEMO<br><br>                                  OK |