



PARTNER

## **SAP BTP Data-to-Value Hands-on Exercise Series**

### **DV140 Exercise03 – Connecting Amazon S3 to SAP Data Warehouse Cloud**

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

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## Table of Contents

<b>DISCLAIMER .....</b>	<b>4</b>
<b>OBJECTIVE .....</b>	<b>4</b>
<b>SCENARIO .....</b>	<b>4</b>
<b>ENVIRONMENT ACCESS .....</b>	<b>5</b>
<b>EXERCISE STEP DETAILS .....</b>	<b>5</b>

## 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 to SAP Data Warehouse Cloud.

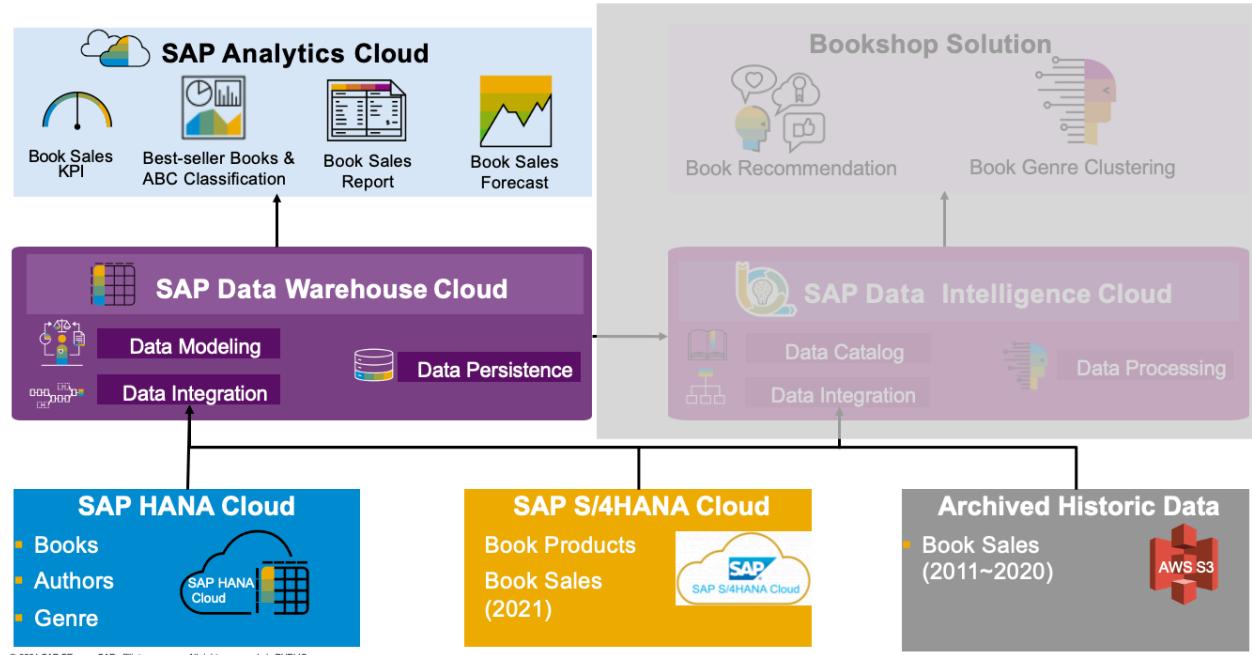
## SCENARIO

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 historic book sales data (2011~2019) resides in Amazon S3 bucket.
- The bookshop solution data locates on SAP HANA Cloud.

SAP Data Warehouse cloud will be used to bring the book sales data together from different sources and provide a uniform, harmonized dataset for analysis. In this exercise, we will cover how to connect Amazon S3 system to SAP Data Warehouse Cloud.

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



5

## ENVIRONMENT ACCESS

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

**SAP Data Warehouse Cloud** (to login SAP Data Warehouse Cloud, and perform the exercise steps):

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

### Amazon S3:

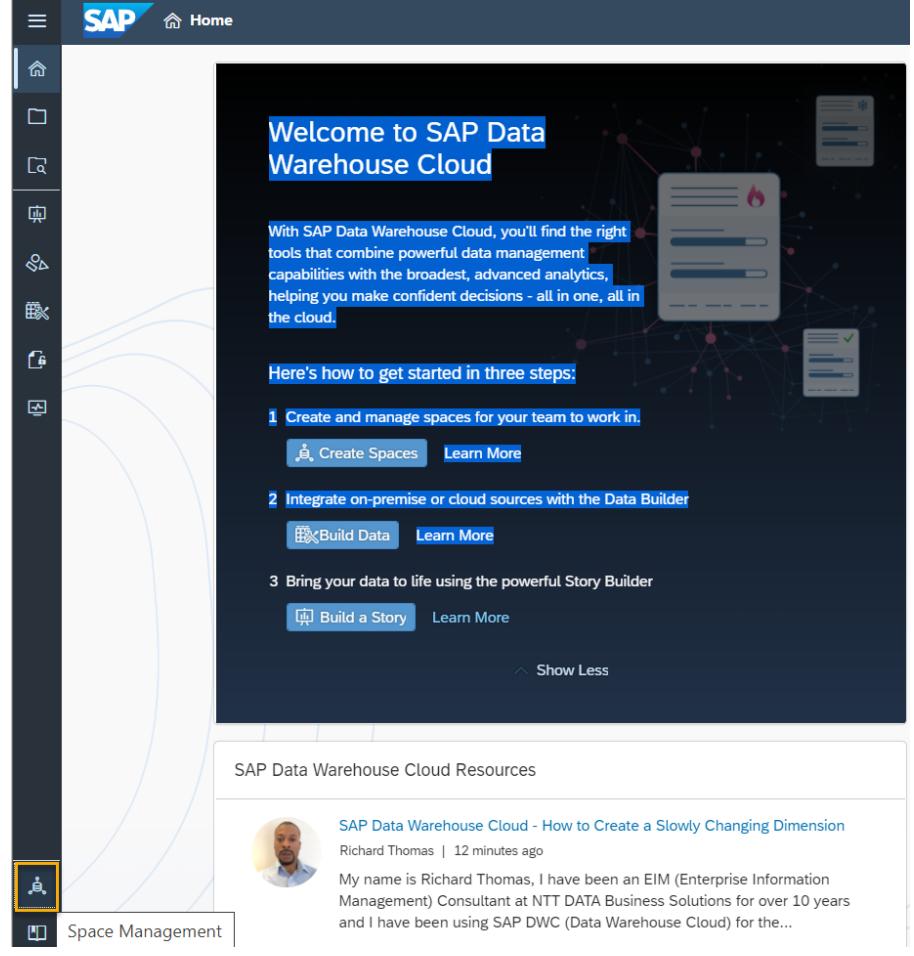
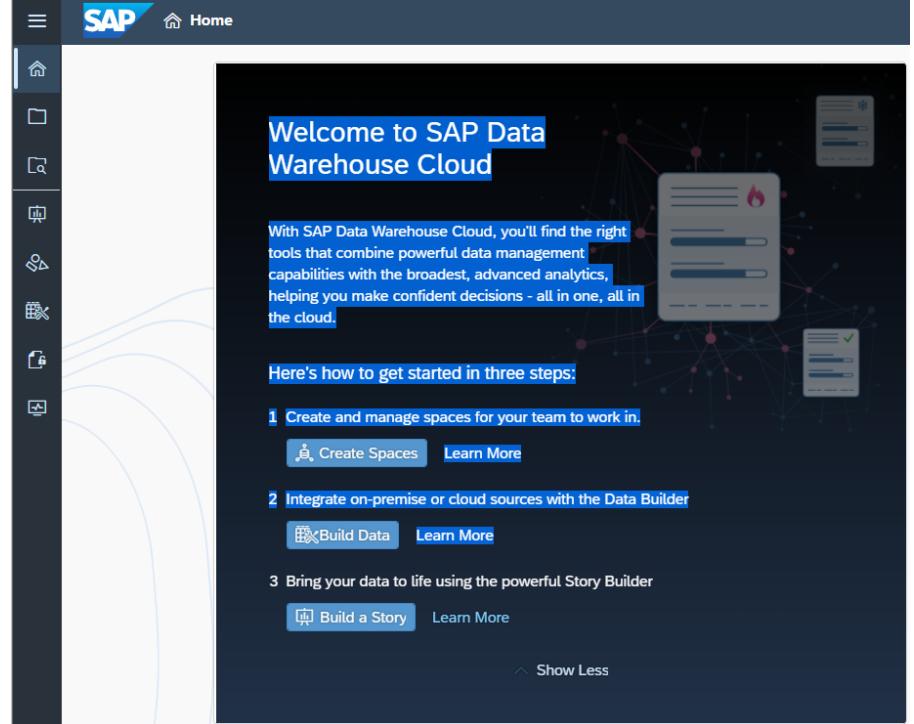
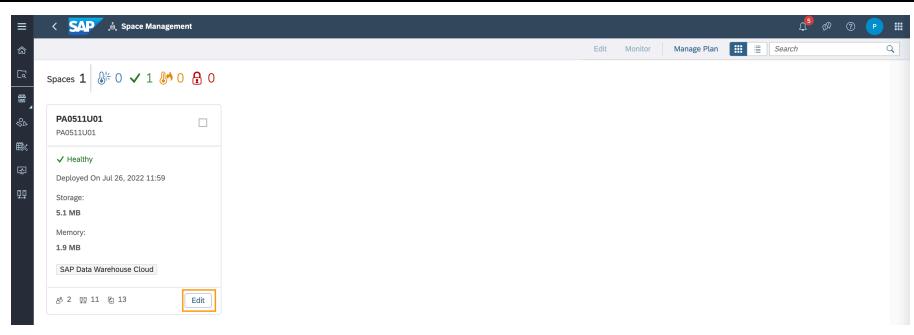
- Endpoint
- Root Path
- Access Key
- Secret Key

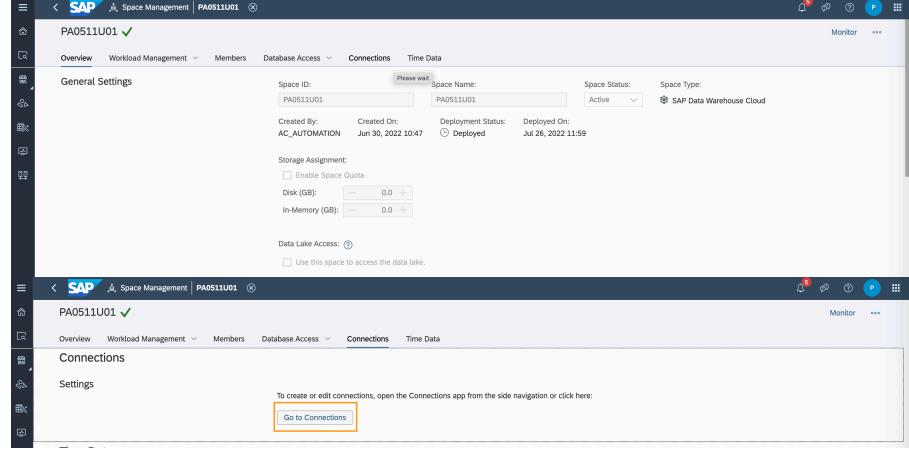
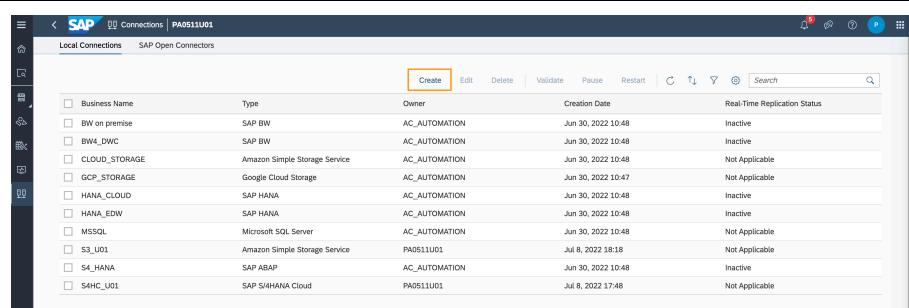
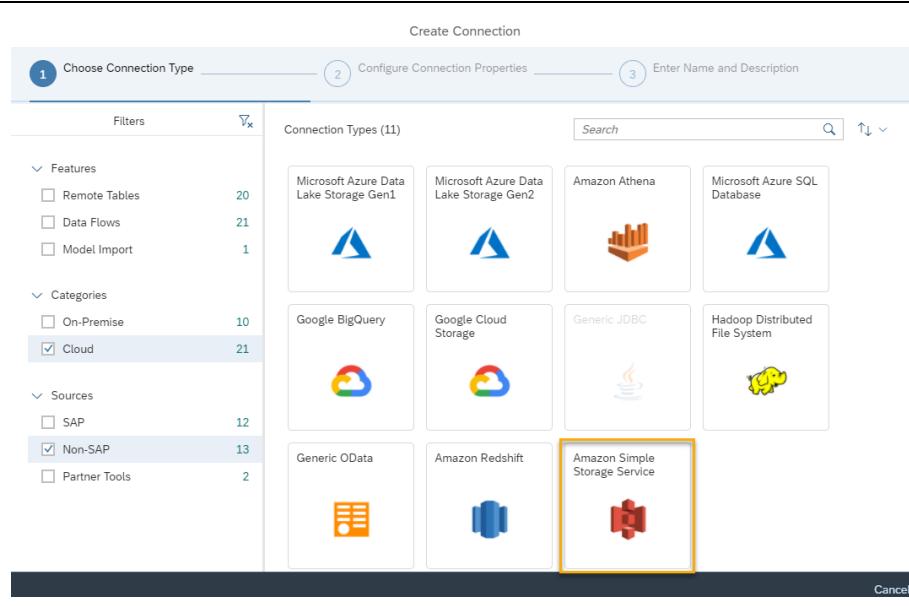
For the Bootcamp participants, please use the SAP Data Warehouse tenant and Amazon S3 provided by SAP, and your assigned user id and password:

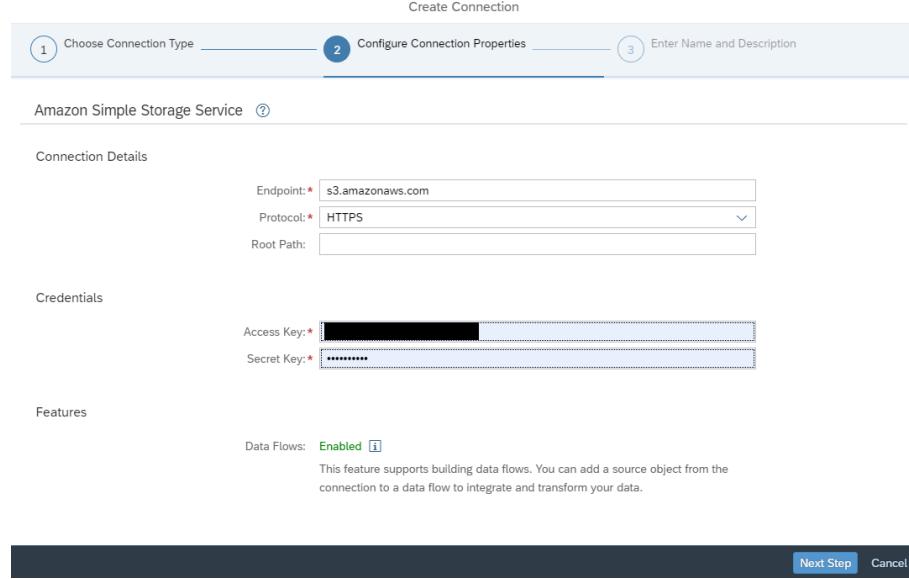
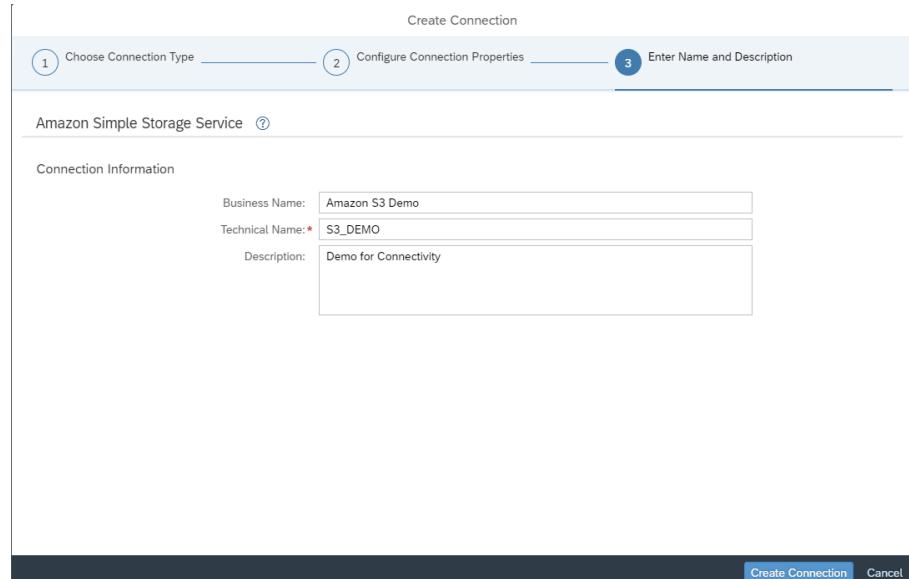
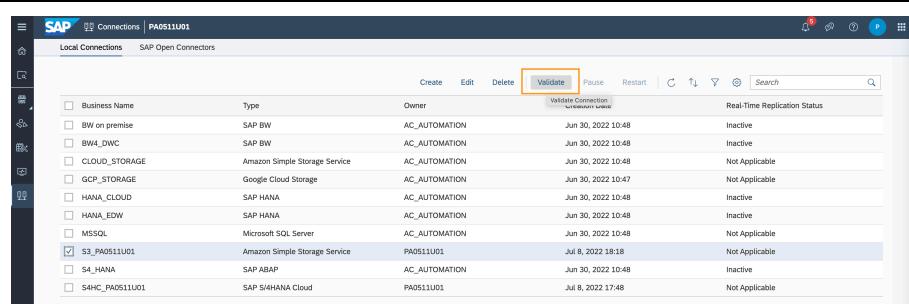
- The SAP Data Warehouse cloud tenant URL is available in the dedicated **Microsoft Teams > General (Channel) > System Access (Tab) > SAP Data Warehouse Cloud (Section)**, which you have been invited.
  - Your assigned user id and password for SAP Data Warehouse Cloud are communicated individually via 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
<p>Log on to SAP DATA Warehouse Cloud tenant with your assigned User ID and Password mentioned above.</p> <p>Get to the Home Screen.</p>	

Explanation	Screenshot
<p>Click on the Space Management icon.</p> 	 <p>Welcome to SAP Data Warehouse Cloud</p> <p>With SAP Data Warehouse Cloud, you'll find the right tools that combine powerful data management capabilities with the broadest, advanced analytics, helping you make confident decisions - all in one, all in the cloud.</p> <p>Here's how to get started in three steps:</p> <ol style="list-style-type: none"> <li>1 Create and manage spaces for your team to work in.       <a href="#">Create Spaces</a> <a href="#">Learn More</a></li> <li>2 Integrate on-premise or cloud sources with the Data Builder       <a href="#">Build Data</a> <a href="#">Learn More</a></li> <li>3 Bring your data to life using the powerful Story Builder       <a href="#">Build a Story</a> <a href="#">Learn More</a></li> </ol> <p>Show Less</p> <p>SAP Data Warehouse Cloud Resources</p> <p><a href="#">SAP Data Warehouse Cloud - How to Create a Slowly Changing Dimension</a> Richard Thomas   12 minutes ago My name is Richard Thomas, I have been an EIM (Enterprise Information Management) Consultant at NTT DATA Business Solutions for over 10 years and I have been using SAP DWC (Data Warehouse Cloud) for the...</p>
<p>The Space Management Screen opens.</p> <p>For the bootcamp participants, the space id corresponds to your assigned user id.</p> 	

Explanation	Screenshot
<p>Click on EDIT and open your Space. In the space click on Connections.</p>	 <p>The screenshot shows two screenshots of the SAP Space Management interface. The top screenshot shows the 'General Settings' tab for Space PA0511U01, displaying details like Space ID, Created By, Deployment Status, and Storage Assignment. The bottom screenshot shows the 'Connections' tab, which has a note: 'To create or edit connections, open the Connections app from the side navigation or click here: Go to Connections'.</p>
<p>In the Local Connections section click "Create" to add a new connection.</p>	 <p>The screenshot shows the 'Local Connections' list for Space PA0511U01. It lists various connections including SAP BW, SAP HANA, and Amazon Simple Storage Service (S3). A 'Create' button is visible at the top of the list.</p>
<p>The Create Connection Screen opens. In the Create Connection Screen, apply the filters as below:</p> <ul style="list-style-type: none"> <li>Filter “Categories” by “Cloud”</li> <li>Filter “Sources” by “Non-SAP”</li> </ul> <p>and select “Amazon Simple Storage Service(S3)” from the filtered list of connection types.</p>	 <p>The screenshot shows the 'Create Connection' dialog. Step 1: 'Choose Connection Type' shows filters for Features (Remote Tables, Data Flows, Model Import), Categories (On-Premise, Cloud selected), and Sources (SAP, Non-SAP selected, Partner Tools). Step 2: 'Configure Connection Properties' shows a grid of connection types. Step 3: 'Enter Name and Description'. The 'Cloud' category is selected, and 'Amazon Simple Storage Service' is highlighted with an orange box.</p>

Explanation	Screenshot
<p>Provide the following details in the Create Connection Screen:</p> <p>Endpoint: Root Path: Access Key: Secret Key:</p> <p>All the connection details are provided in the <u>ENVIRONMENT ACCESS</u> section in the beginning of this exercise.</p> <p>Then click Next Step.</p>	
<p>In the next screen provide:</p> <ul style="list-style-type: none"> <li>- <b>Technical Name</b> as <b>S3_&lt;USERID&gt;</b>.</li> <li>Please, assure to follow the naming conversion for the connection id here, replace &lt;USER_ID&gt; with your assigned user id;</li> <li><b>Business Name</b> will be auto generated based on technical name;</li> <li><b>Description</b>: S3 Connection for user &lt;USER_ID&gt;</li> </ul> <p>and click Create Connection.</p>	
<p>The new connection will be added to the Connection list. Select the connection just created for S3 and click the "Validate" button.</p>	

Explanation	Screenshot
<p>Check the Connection Status.</p> <p>As a result, the connection of Amazon S3 is ready in SAP Data Warehouse Cloud.</p>	<p>Connection "Amazon S3 Demo" is valid.</p> <ul style="list-style-type: none"><li>- Data flows are enabled.</li><li>- Remote tables are not supported.</li></ul>