# Import software installation data

Lab 2.2 15-20 minute

# Lab objectives

You will achieve the following objectives:

- Software installation data is loaded
- Software installation data is transformed into ServiceNow tables

Lab Dependency: Requires the completion of Lab 2.1

**Required Resources:** 2.2-software\_installations.xlsx and 2.2-transform\_script.txt

### Scenario

Rick Lemm, Software Asset Manager at Cloud Dimensions, Ltd. (CloudD), previously downloaded a Microsoft Excel file containing software installation data and a script file to remove existing installation data (downloaded from the ServiceNow knowledge base). Now they would like this data imported into ServiceNow to replace existing obsolete data.

Installation data must be imported using system import sets, which Rick does not have the appropriate role for in ServiceNow. Rick has requested that Jet Blake, ServiceNow Administrator at CloudD, import the data from the 2.2-software\_installations.xlsx spreadsheet.

# **Requirements Summary**

### **User Stories**

STRY020201 – Import software installations

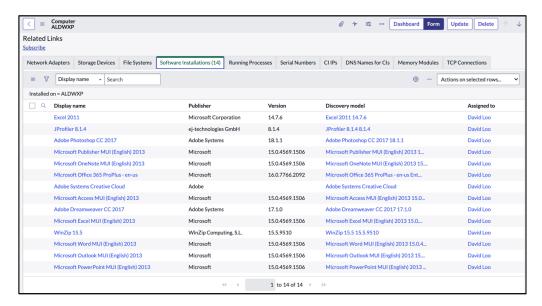
As a software asset manager, I need the 2.2-software\_installations file imported so that new data can be imported into ServiceNow to replace existing obsolete data, and the 2.2-transform\_script.txt file executed so that the existing, obsolete data can be replaced with more current data.

## STRY020201 – Import software installations

## Section 1 View software installations before import

Jet Blake, ServiceNow Administrator at Cloud Dimensions (CloudD), wants to review software installations associated with one of the devices that are affected by the import, so they can compare before and after import results.

- 1. Impersonate **System Administrator**.
- As System Administrator, navigate to Configuration > Base Items > Computers.
- 3. Open the record for **ALDWXP**.
- 4. Scroll down to view the **Software Installations** related list.



**Knowledge Check:** Refer to the Answer Guide at lab's end.

1. How many Software Installations are associated with ALDWXP? Make a note.

### Section 2 View and load installations data

Jet is ready to load the installations data from the spreadsheet into ServiceNow.

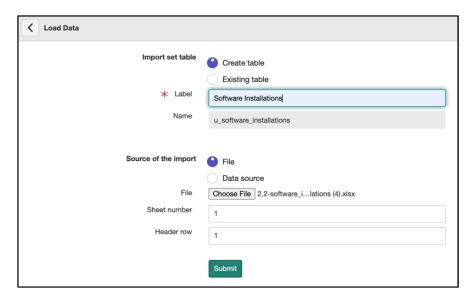
1. Open the **2.2-software installations.xlsx** file downloaded in Lab 1.1.

**Note:** This spreadsheet contains the minimum required information to create Software Installation records. Your discovery source may provide additional information that can be mapped to the record.



Knowledge Check: Refer to the Answer Guide at lab's end.

- 2. What type of information is required to create a Software Installation record?
- 2. As **System Administrator**, navigate to **System Import Sets > Load Data**.
- 3. Under Import set table, select Create table.
- 4. Update the Label field for the import set table to Software Installations.
- 5. Under Source of the import, select **File**.
- 6. Click **Choose file** and select the **2.2-software\_installations.xlsx** file downloaded in Lab 1.1.



7. Click Submit.

# Section 3 Create a transform map

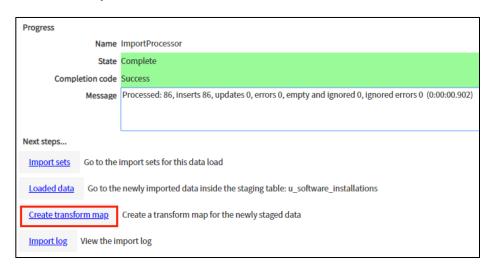
With the data now in ServiceNow, Jet needs to complete step 2 of the system import set to transform the data from its location in the import set table to the desired asset tables.



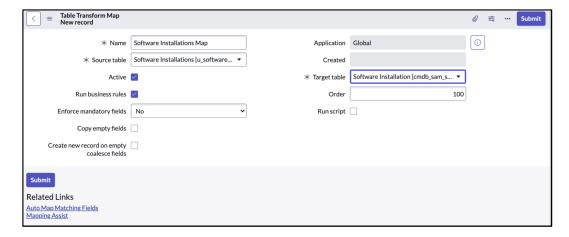
The data that has been loaded contains all current software installations on some computers in the environment. This means that any installations in ServiceNow that are not in the loaded data have been uninstalled and need to be removed from ServiceNow.

In addition to mapping fields from the import set table to the asset tables, the transform map can remove existing installations, using a script, before transformation of the new data.

1. Once State shows as Complete, as **System Administrator** under Next steps..., click **Create transform map**.



- 2. Complete the form as follows:
  - Name: Software Installations Map
  - Target table: Software Installation [cmdb\_sam\_sw\_install]



- 3. Under Related Links, click Auto Map Matching Fields.
  - **Note:** When using this option, validate the fields map properly.

#### Section 3.1 Map fields

1. Under the Field Maps related list, double-click the **Coalesce** value for u\_display\_name and set the value to **true**.



2. Click the green check mark to save.



3. Repeat this process to set Coalesce to **true** on all the remaining values.

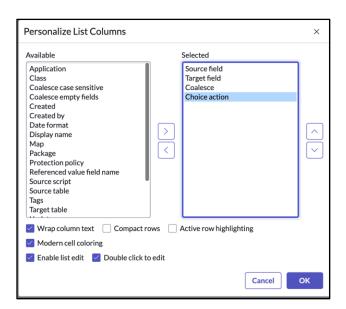


**Tip:** Alternatively, click to the right of **false** in the **Coalesce** field of the next record and, while holding the shift key down, drag to the bottom of the list to highlight the field for all records.

Double-click to the right of **false** in any one of the **Coalesce** fields and set the value to **true**, then click the green check mark to save. The field in all records should be set to true.

**Knowledge Check:** Refer to the Answer Guide at lab's end.

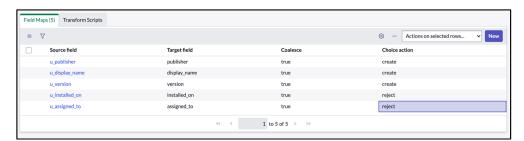
- 3. Why set all these values to coalesce?
- 4. Under the Field Maps related list, click the **gear icon** to personalize the list.
- 5. Add Choice action to Selected list.



6. Click OK.

**Note:** If you get a message asking whether you want to leave the page/site, click Leave to refresh Fields Maps related list with the additional field.

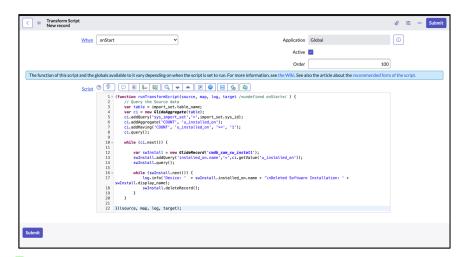
7. Set the Choice action for u\_installed\_on and u\_assigned\_to to reject.



**Note:** This rejects the installation record if the u\_assigned\_to value does not match an existing user or the u\_installed\_on value does not match an existing CI.

#### Section 3.2 Add script to remove existing installations

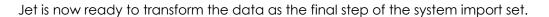
- 1. Under the Transform Scripts related list, click **New**.
- 2. Open the file **2.2-transform-script.txt** file that you saved previously and copy the contents (e.g., with WordPad).
- Replace all the text in the Script field on the Transform Script form by pasting the new content over it.



**Note:** This script finds all the distinct CIs in the import and runs a command to delete the Software Installation records associated with those CIs before the current installation data is imported. Deleted installations are logged in the Import Log for the transformation.

4. Click Submit.

## Section 4 Transform data





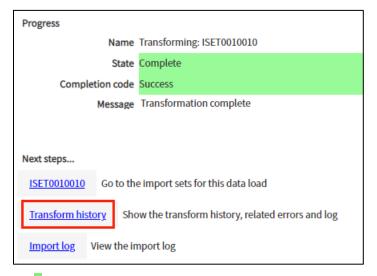
1. As **System Administrator**, under Related Links on the transform map, click **Transform**.



2. Click Transform when the Specify Import set and Transform map form is displayed.

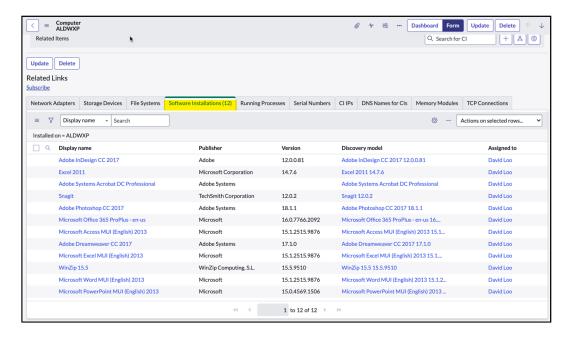


3. Once State shows as Complete, under Next steps..., click Transform history.

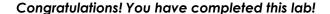


- Verify Actions: Validate that the Software Installations imported successfully.
- 4. As System Administrator, navigate to Configuration > Base Items > Computers.
- 5. Open the record for **ALDWXP**.

6. View the Software Installations related list.



7. Compare the installations with those in the spreadsheet where the Installed on field is set to **ALDWXP** to verify they match.



You are now ready to begin learning about software discovery to support ServiceNow's Software Asset Management Professional product.

# **Knowledge Check Answer Guide**

- 1. How many Software Installations are associated with ALDWXP?
  - 14

### 2. What type of information is required to create a Software Installation record?

- The display name of the software installation
- The software publisher
- The software version
- The device the software is installed on
- The user of device the software is assigned to

#### 3. Why set all these values to coalesce?

 To ensure that if all fields do not match an existing record on import, that a new record is created. If all fields match, a new record will not be created. Avoids duplication of data.

# Lab takeaways



- What data is required to create a software installation record?
- What is the purpose of loading and transforming data?
- Why did you coalesce the data for transformation?