



How to use local variables and credentials

Project name: Local variables and credentials

Package version: 1.0.2

Version	Date	Description
1	April 12, 2021	Document created

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INTRODUCTION

This document describes the SAP Build Process Automation sample **Local variables and credentials** and provides the following information:

- Description (functional and technical)
- Version used to generate this sample

It also contains information on prerequisites, such as the steps to follow before launching the agent.

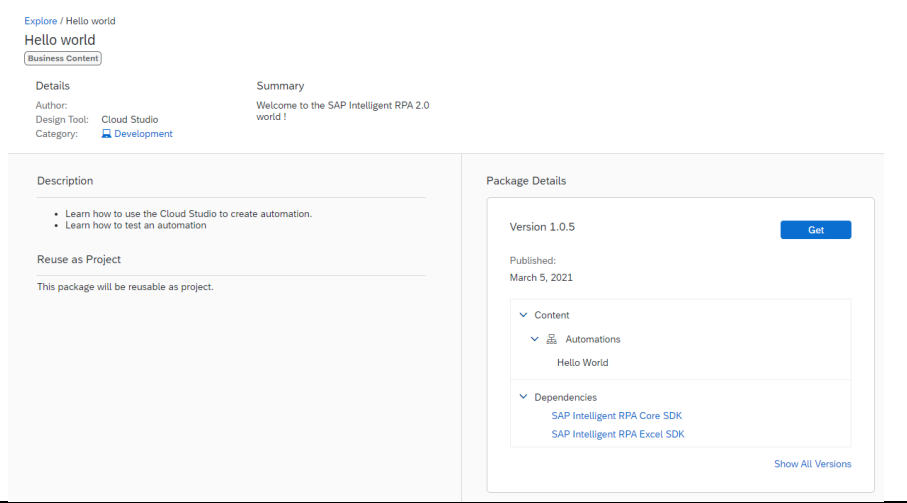
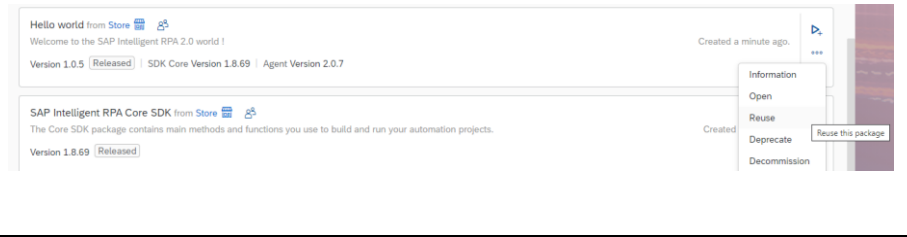
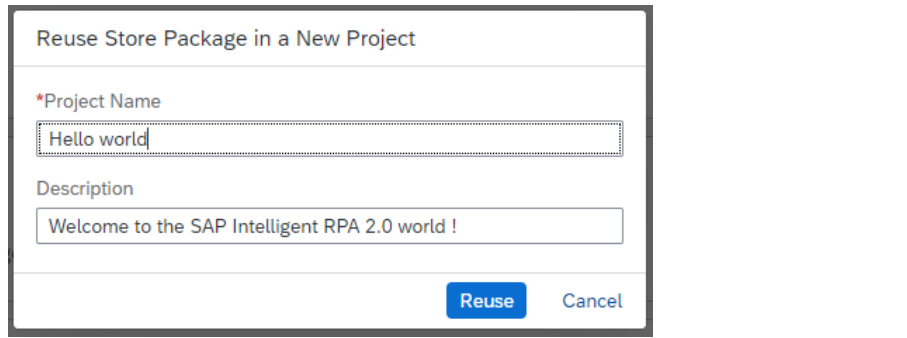
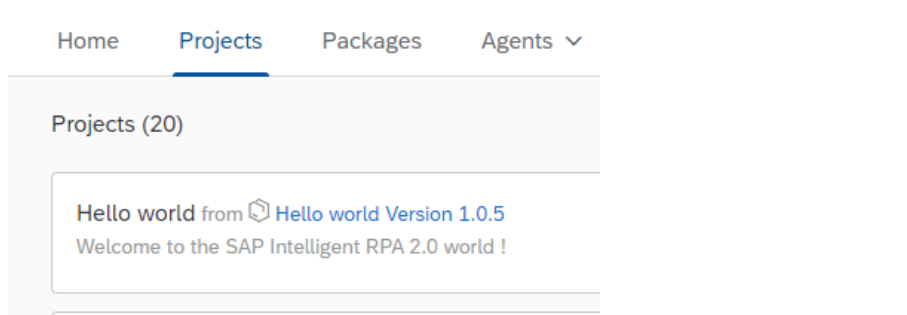
IMPORTANT RECOMMENDATION

General

To use this sample, you need to have a basic knowledge and understanding of SAP Build Process Automation tool. At the very least you need to know how to build an automation, add and modify activities and generate a package.

Reuse the sample as a new project

Note: screenshot might display a different name than the one of this sample.

<p>From the Cloud Factory, open the Store tab and select the sample you want to retrieve.</p> <p>Click on the Get button.</p>	 <p>Explore / Hello world Hello world (Business Content)</p> <p>Details Author: Cloud Studio Design Tool: Cloud Studio Category: Development</p> <p>Summary Welcome to the SAP Intelligent RPA 2.0 world !</p> <p>Description</p> <ul style="list-style-type: none"> Learn how to use the Cloud Studio to create automation. Learn how to test an automation <p>Reuse as Project This package will be reusable as project.</p> <p>Package Details Version 1.0.5 Get</p> <p>Published: March 5, 2021</p> <p>Content Automations Hello World</p> <p>Dependencies SAP Intelligent RPA Core SDK SAP Intelligent RPA Excel SDK</p> <p>Show All Versions</p>
<p>Once the package is retrieved, open the Packages tab of the Cloud Factory.</p> <p>Click on the Options button of the package you just retrieved and select the option Reuse.</p>	 <p>Hello world from Store Welcome to the SAP Intelligent RPA 2.0 world ! Version 1.0.5 (Released) SDK Core Version 1.8.69 Agent Version 2.0.7 Created a minute ago.</p> <p>SAP Intelligent RPA Core SDK from Store The Core SDK package contains main methods and functions you use to build and run your automation projects. Version 1.8.69 (Released) Created</p> <p>Information Open Reuse Deprecate Decommission</p> <p>Reuse this package</p>
<p>Set a name for the project to be created.</p>	 <p>Reuse Store Package in a New Project</p> <p>*Project Name Hello world</p> <p>Description Welcome to the SAP Intelligent RPA 2.0 world !</p> <p>Reuse Cancel</p>
<p>Open the project that has just been created.</p>	 <p>Home Projects Packages Agents</p> <p>Projects (20)</p> <p>Hello world from Hello world Version 1.0.5 Welcome to the SAP Intelligent RPA 2.0 world !</p>
<p>If needed, update the content of this project, and generate a new package from it.</p>	

You need to execute this procedure to be able to open the project and see all its content (the captured applications, the declared items, the automations, etc.).

DESCRIPTION

This package contains captures, datatype and automations that are described below. See chapter Version for more details about the version of the Desktop Agent and the SDK dependencies.

Settings

This section describes the settings of the project such as environment variables or dependent packages that are used in the automation.

Environment variables

N/A

Dependent packages

N/A

Captures

This section describes the captures which were made to pilot the application in this sample. It will also describe the different methods which were used to capture the pages and declare the items.

N/A

Datatypes

This section describes the datatype used in this sample. It describes the structure of the datatype and where it is used in the automations.

N/A

Alerts

This section describes the alerts used in this sample. It describes the structure of the alert.

N/A

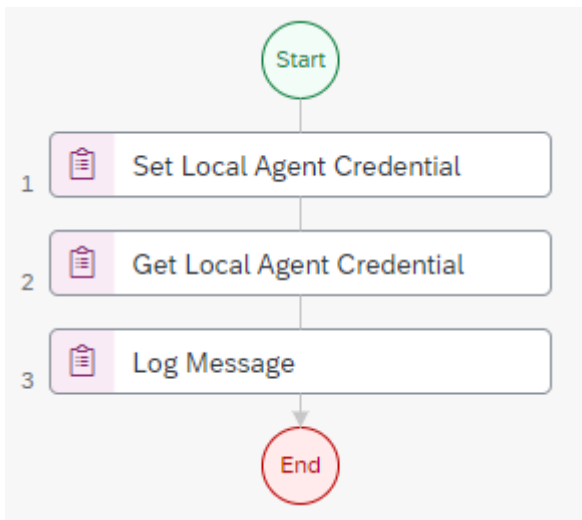
Automations

Create and get credentials

Type: Attended

Input: None

Output: None



The agent creates a new entry in the Credential Manager, named *MyGenericCredentials*, then retrieves it.

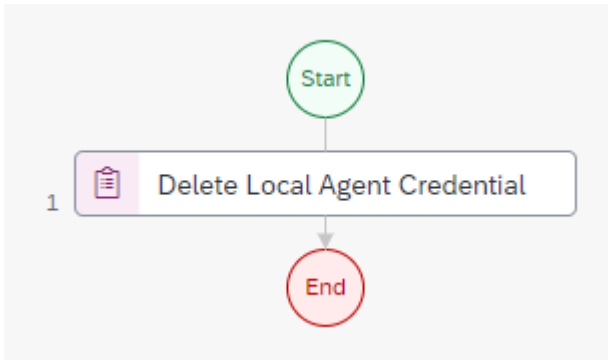
Note: The **Set Local Agent Credential** activity is configured with the prefix value set to default.

Delete credentials

Type: Attended

Input: None

Output: None



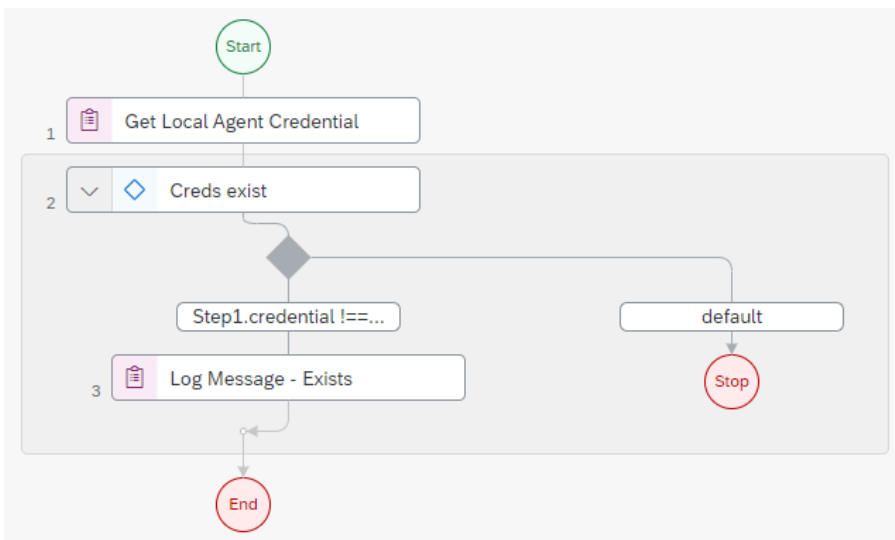
The agent simply deletes the entry in the Windows Credential Manager which name is *MyGenericCredentials*, prefixed with the default value (see documentation about the default value of the prefix).

Get manually created credentials

Type: Attended

Input: None

Output: None



The agent will retrieve the entry in the Windows Credential Manager which name is *MyGenericCredentials*.

If the result is null, it means that no entry was found.

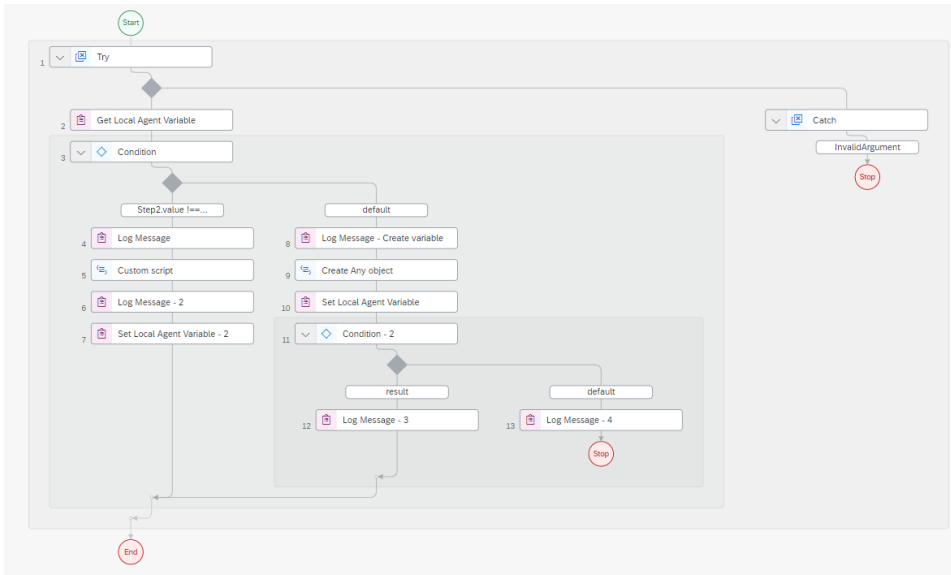
Note: The prefix parameter is set to *Empty Text*, so **no prefix is used**.

Create and get variables

Type: Attended

Input: None

Output: None



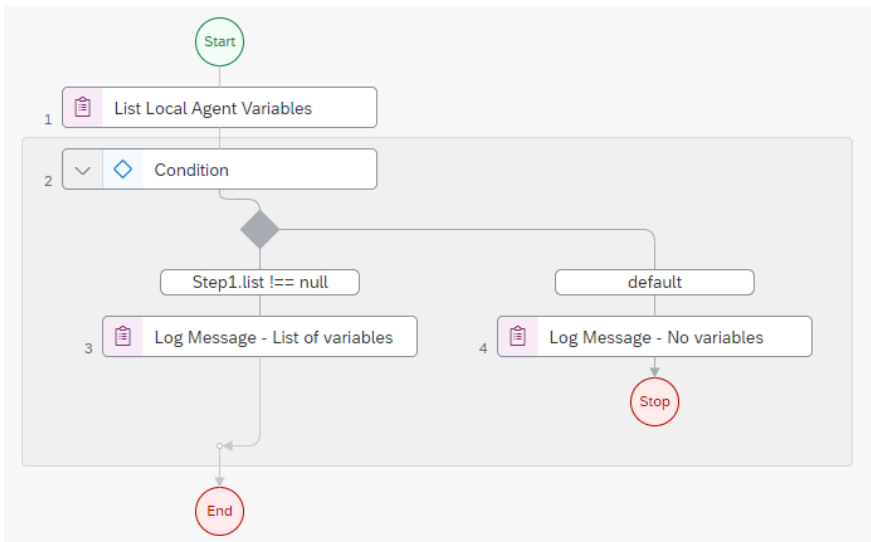
All activities related to **Local Agent Variable** must be encapsulated in a **Try/Catch** block, as they might throw **InvalidArgument** exceptions.

In this automation, the agent will try to retrieve a local variable (name is defined in the first activity of the automation, with the creation of a variable). Then it will check its value (if undefined (i.e. if the **defaultValue** parameter is left empty), the variable could not be retrieved).

If the variable does not exist, it creates one (a simple JS object). If it does, then the value of the JS object is updated and the variable is updated.

Get list of variables

Type: Attended
Input: None
Output: None



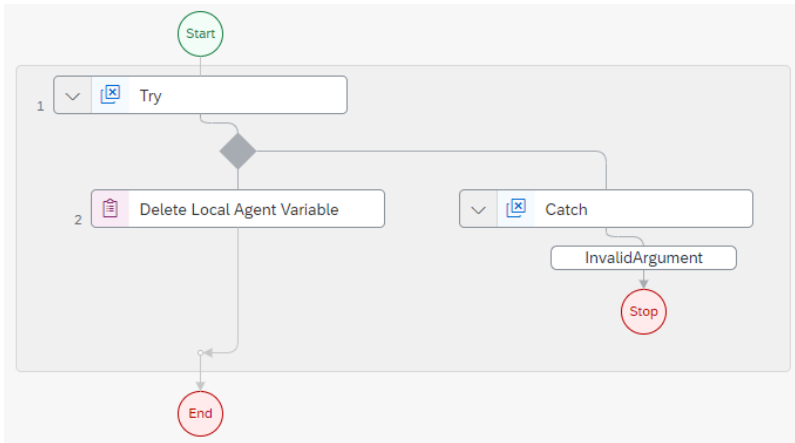
If there is no variable that could be retrieved, the result of the activity List Local Agent Variables is null.

That's the reason why there is a Condition block in this automation.

If there is at least a variable, then it returns an array of string, where each element is the name of the variables.

Delete variables

Type: Attended
Input: None
Output: None



This activity must be encapsulated in a Try/Catch block.

It deletes the variable which name is provided as parameter.

You must also set the scope of the variable.

VERSION

The product versions used to generate this sample are detailed below. This sample is provided “as is”, with no warranty that it will work correctly with other versions. If some versions of your software are different (such as the tool version or the target application version), you may need to recapture the application and/or update the workflow activities.

SAP Build Process Automation

This sample targets the Desktop Agent **2.0.9** or higher.

The following SDK dependencies were used to generate this sample:

irpa_core	1.10.69
irpa_excel	1.10.69
irpa_outlook	N/A
irpa_pdf	N/A
irpa_ui5	N/A
irpa_word	N/A

See [documentation](#) for more details about the compatibility between SDK version and Desktop Agent.

Target application

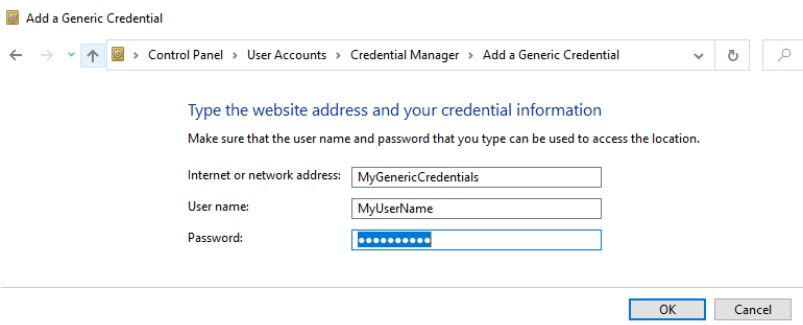
N/A

PREREQUISITES

Global setup

SAP Build Process Automation must be installed in accordance with the installation guide available [here](#). An SAP Build Process Automation Factory must be available with a suitable environment (containing an agent). All information can be found in the “Getting Started” section accessible via the above link.

Specific steps to follow before launching the agent

<p>Open the Windows Credential Manager and create a new entry in the Generic Credentials catalog.</p> <p>The name of the entry should be <i>MyGenericCredentials</i>.</p> <p>Provide a value for the username and the password fields.</p>	
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EXPECTED OUTPUT

You should see the result of the automations in the Console logs.

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