

What is Citrix automation in RPA?

Ability of a RPA platform to comprehensively connect with Citrix environment to automate applications running in the secured Citrix environment

Citrix environment limitation and AssistEdge 17.6 approach?

- Due to high security, application controls/elements are not exposed for automation field configuration or recording
- We had to rely on Image or Surface automation



Brief information on Image or Surface automation

Image based clicks on the remote Citrix application(Image Control Activity)

Internal

- Mark the image where you need to perform the click
- Configure the fields and test run the process



What is hybrid environment?

Some applications are present and accessible from *local (non-Citrix) environment* and some from *Citrix environment*.

Citrix out-of-box adapter

AssistEdge RPA Studio supports automation of the Citrix based applications in a codeless manner through outof-box adapter CitrixApps.



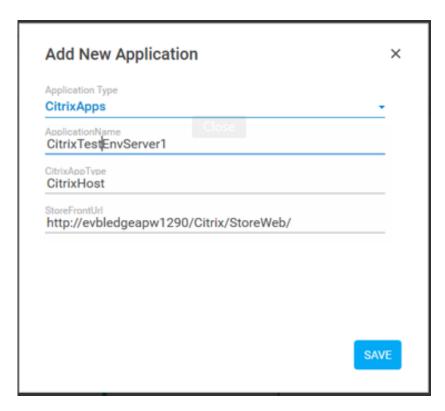
Two types of Citrix Application

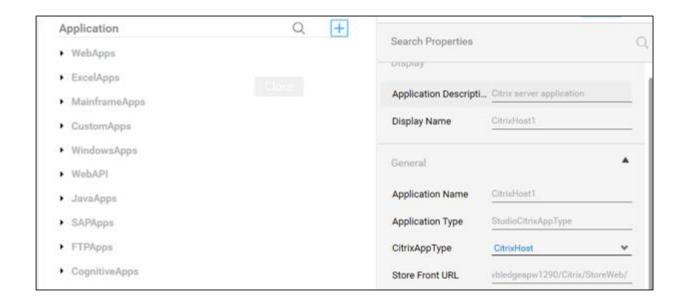
CitrixHost

Citrix Host: A Citrix server on which the applications are hosted are added as 'CitrixHost' type of Citrix applications

Internal

CitrixHost can be added either from process canvas or admin module





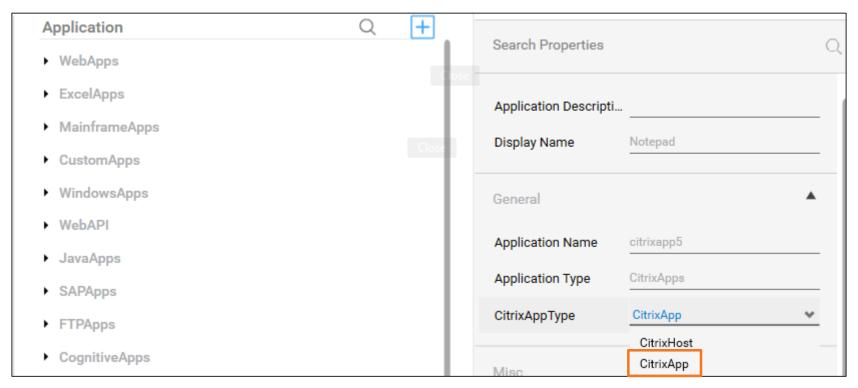
Note: URL for the Citrix Server application is known in Citrix terminology as 'Store front URL'



Two types of Citrix Application(cont.)

CitrixApp

- CitrixApp: Citrix applications which are not hosts, but actual applications within Citrix environment, get added as type 'CitrixApp'
- 2. Such applications would typically be added when a process configured in Automation Studio in *Citrix environment* is *imported* in the *local or non Citrix environment* into the Automation Studio



Note: If a Citrix server application is launched using a thick client interface, product provides extensibility to achieve this.



Automation of Citrix based applications in a hybrid scenario

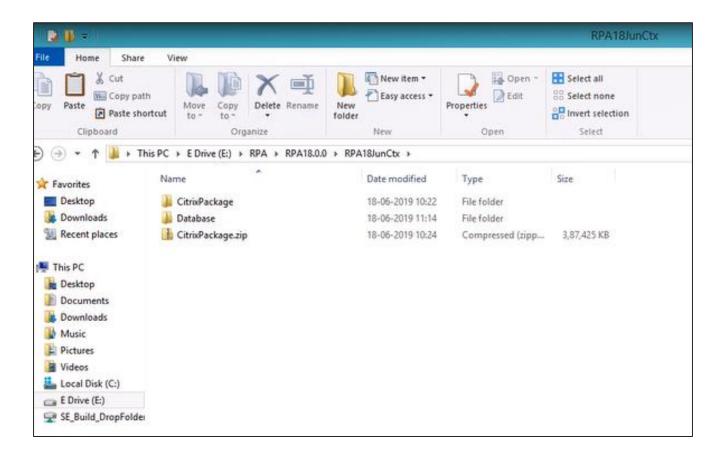
Automation of Citrix based applications in a process containing a mix of local application as well as Citrix based applications requires the following:

- Installation of product on *local environment* and Automation Studio up and running
- Automation Studio and an automation component needs to be deployed on the *Citrix server*
- Automation of applications in Citrix environment in the Studio present in *Citrix environment*



Automation Studio and an automation component needs to be deployed on the Citrix server

1. Get Citrix package and database package from the AssistEdge build and extract Citrix Package

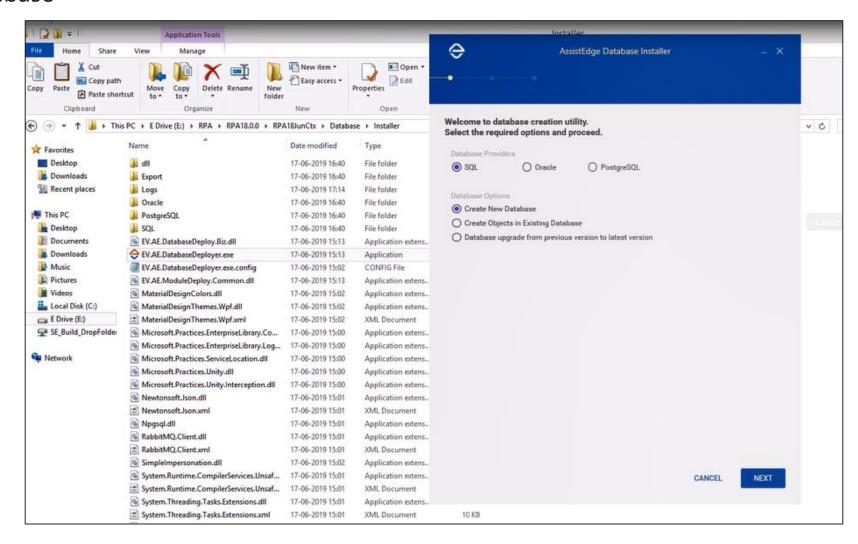


Internal



Automation Studio and an automation component needs to be deployed on the Citrix server(cont.)

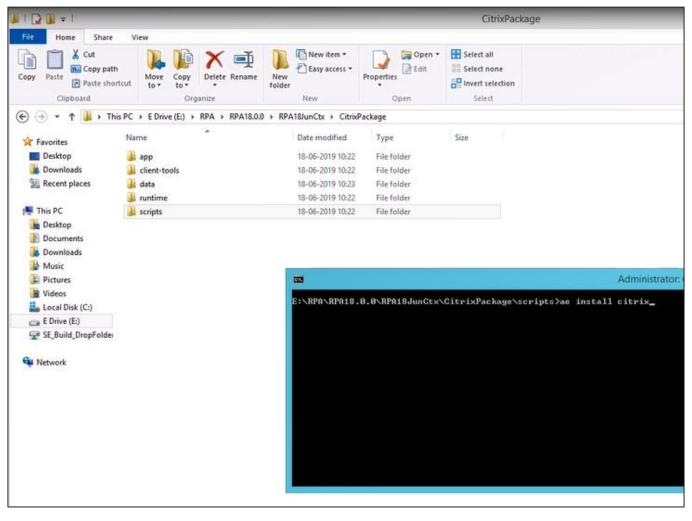
Install Database





Automation Studio and an automation component needs to be deployed on the Citrix server(cont.)

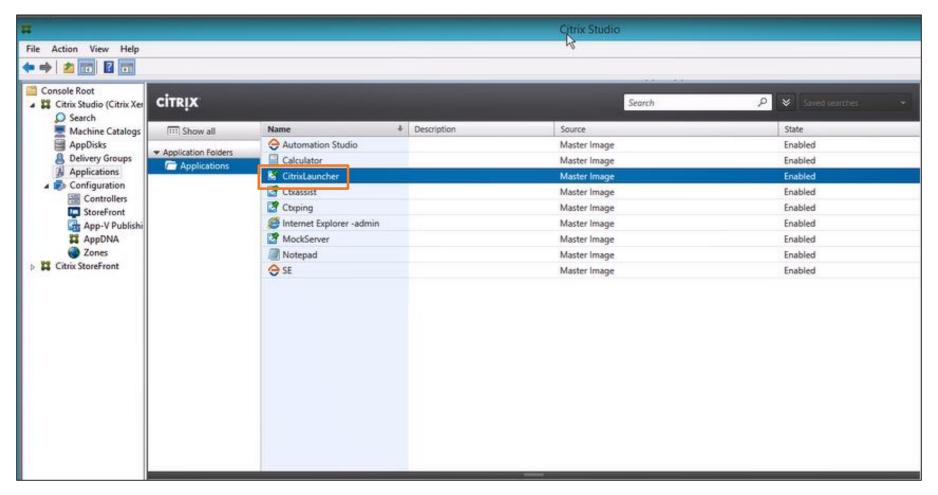
3. Install Citrix Package





Automation Studio and an automation component needs to be deployed on the Citrix server(cont.)

4. Publish Citrix runtime from Citrix studio

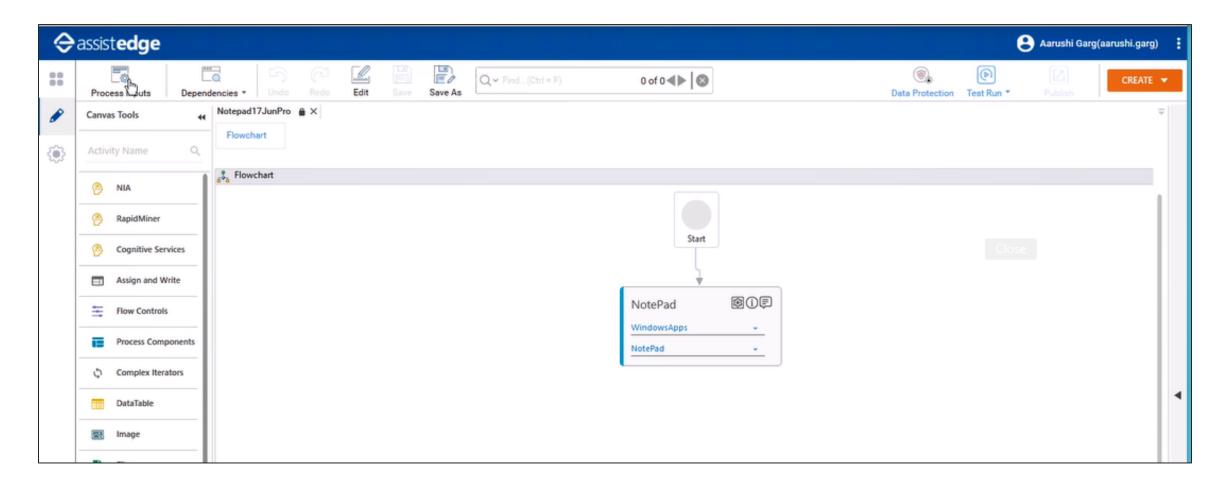


Path of the file: CitrixPackage\client-tools\AssistCtxRuntime



Automation of applications in Citrix environment in the Studio present in Citrix environment

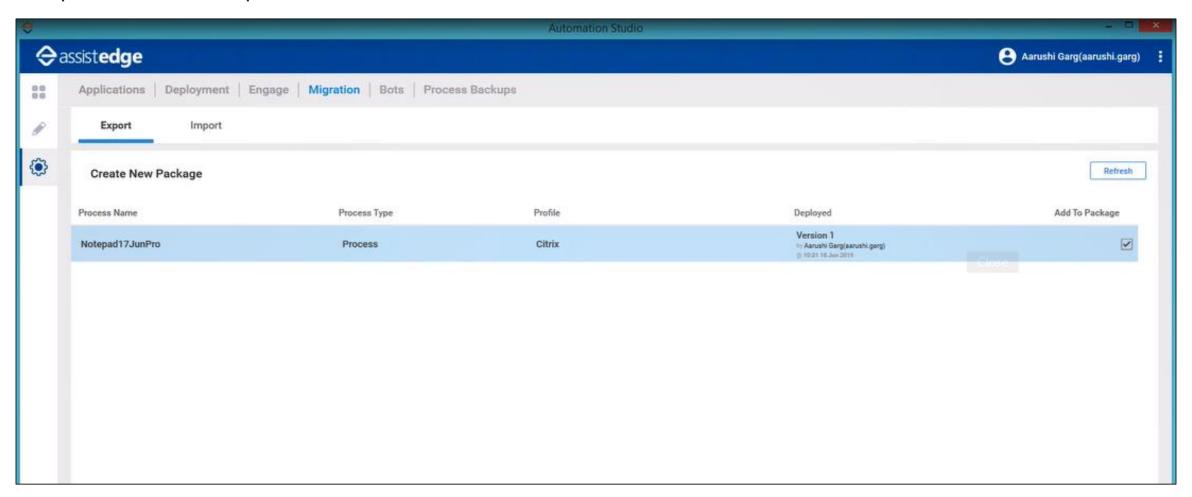
5. Open automation studio and create process





Automation of applications in Citrix environment in the Studio present in Citrix environment(cont.)

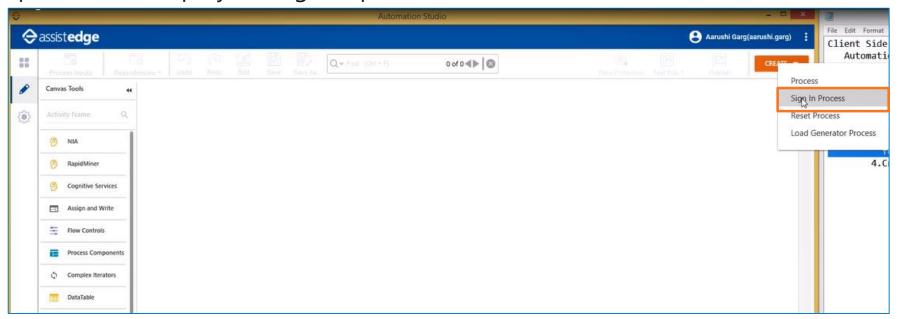
5. Export the created process



Note: The package that is created for this exported process is internally marked as Citrix automation package.

Steps to be followed in the local environment(non-Citrix)

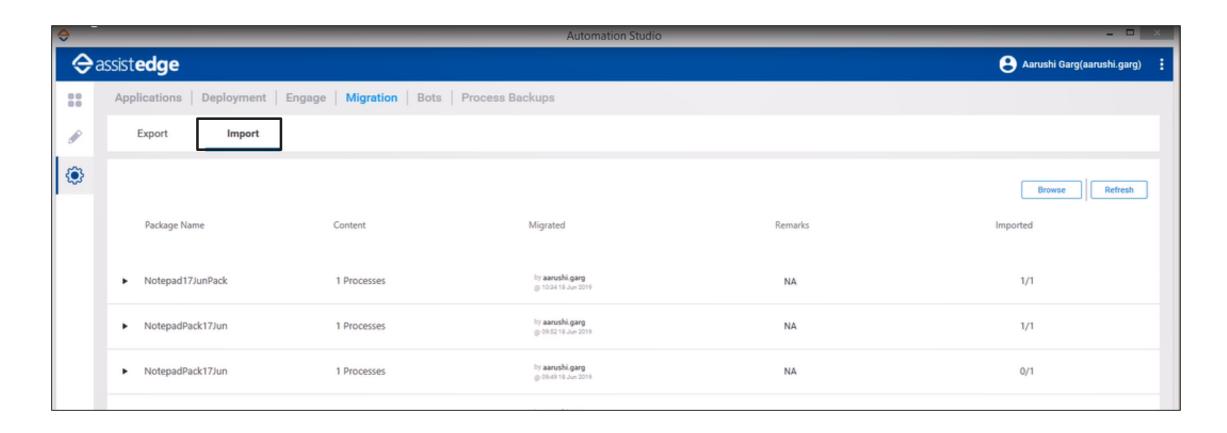
- 1. Copy the exported process to a file location on the local environment outside Citrix
- 2. Add a Citrix Application of type 'CitrixHost' under 'CitrixApps'
- 3. Create a Sign-In Process for the above added CitrixHost application
 - Create a sign-in process for the application
 - Explicitly configuring the user id and password fields is not required, these 2 fields are implicitly configured
 - Test, publish and deploy the sign-in process





Steps to be followed in the local environment(cont.)

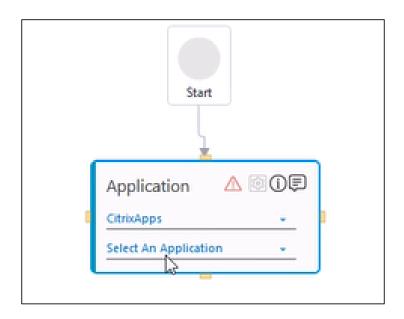
4. Import the package in the Studio instance outside the Citrix environment

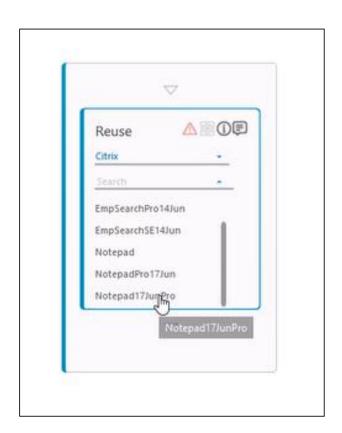




Steps to be followed in the local environment(cont.)

- Create a process on the Automation Studio to automate the applications in the local environment
- To include the Citrix based application in the process flow, reuse the imported process
 - Drag and drop the CitrixHost application
 - Place the Reuse actiity within the Citrix host application container
 - Select the imported Citrix process
- Save and test the process







Steps to be followed in the local environment(cont.)

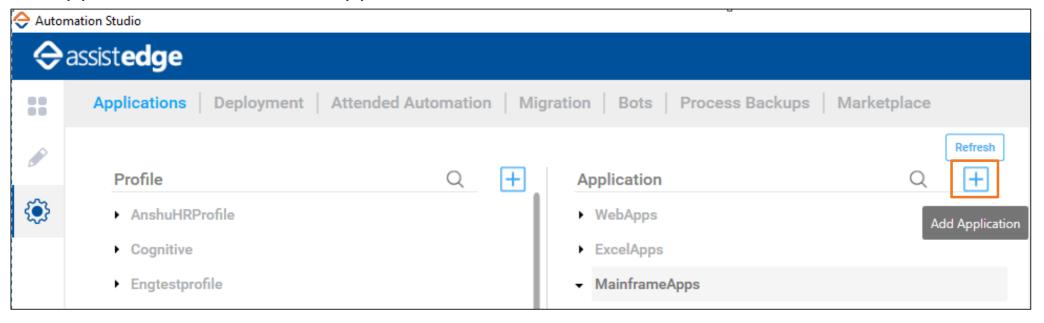
- On setup of environment and testing the process all the applications in the process including Citrix based applications are *launched*, *signed in and automation* is performed on them
- Communication between local environment and Citrix based environment happens through the automation component on Citrix over *virtual channel*
- Citrix based applications are *rendered as images* and the automation happening on the same can be seen from the local environment

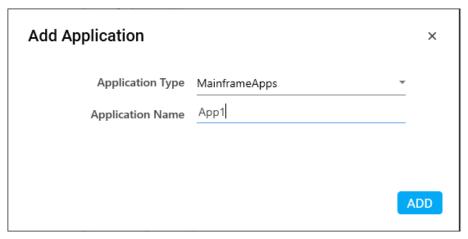




Steps to add a mainframe application

Studio > Application Section > Add application

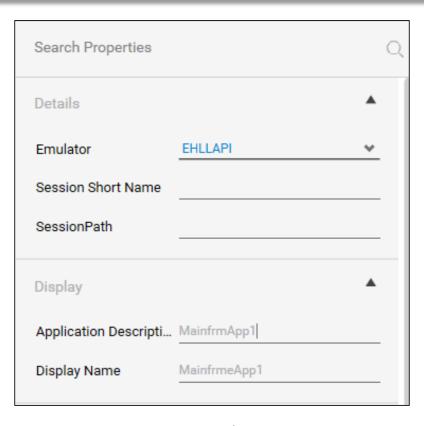






Mainframe Automation in 18.0

- > EHLLAPI Emulator High-level Language Application Program Interface has been added in 18.0
- No need to create a plugin for each emulator
- > EHLLAPI is generic approach to automate IBM mainframe which will be emulator agnostic





Mainframe automation in 18.0

- To automate the Mainframe application, use the "Start Field Configuration" button.
- From the property grid, select one of the below configuration options for a Mainframe application
 - Set text Set a value to the application
 - Get text Fetch a value from the application
 - Fire event Execute an action in the application

