







Advanced Citrix Automation

Advanced Citrix - Agenda

-  **Open applications in Citrix**
-  **Keyboard automation**
-  **Tabular data input**
-  **Manage different resolutions issue**

Best Practices
Q&A
Test
Online Resources

Open application

Double click on the Icon

- ☐ define the image and click with *Double Click Image*
- ☐ not very reliable (if background & resolution changes, if highlighted)
- ☐ use it as fallback method, if the next two don't work

Shortcut Key

- ☐ define a shortcut key and trigger the app with a *Send Hotkey* activity
- ☐ add arguments in the Comment section (or Target , with parameter)
- ☐ the preferred way of opening apps in Citrix

Command prompt

- ☐ open the command prompt and *Type* the path to the application
- ☐ add the arguments after the application path
- ☐ use it when creating short keys is not allowed by admin

Keyboard automation

Select item

- ☐ set focus to the list
- ☐ click on the desired text or image (*Click OCR Text* or *Click Image*)
- ☐ scrolling down the list might be needed

Scrape relative

- ☐ select a static image as an anchor, then indicate a scrape area relative to that image
- ☐ **clipping region** sets the region that needs to be scraped relative to the reference image.
- ☐ after finishing scraping , the **clipping region** needs to be reset to work again with the whole Citrix window
- ☐ could also be done manually, but much easier to do with Citrix Recorder (the clipping region is set/ reset automatically)

Handling the scale/ resolutions change

Issue: In rare cases, Citrix automation based on image recognition is prone to errors due to resolution changes.

Solution: Search for multiple images, with different scales/ resolutions

- **Using *If***
 - Check for the images in **sequential order**, returns true when image exists
- **Using *Pick Branch***
 - Search for multiple items **at the same time** and executes the one it finds first

Best practices

- Find **all the ways in which the application works**, so you can minimize the automation flow. Sometimes the usual manual routine is not the optimal way for automation.
- **Pay attention to the image you select** for an image based automation. Selecting more/ less than needed might lead to image not found/ wrong image selection
- If OCR returns accurate results (test it !), searching for text could be safer than searching for image, because it doesn't depend on resolution, fonts, background color changes.
- When OCR is not accurate and more than one design of the app is used (different resolutions, fonts, colors) use image automation + Pick Branch sequences.
- In a Pick Branch, **the trigger should contain just enough logic to receive an event**, and all the processing of that event should go into the action of the branch



Q&A



Test

Online Resources

 [Scrape relative](#)