INSTALL

This document describes how to install our tool and the target software.

TypeOracle Install

Since most parts of our tool is implemented by python, so if the python is installed, our tools can run normally.

In order to run our tool, some python packages need to be installed, they are `psutil` and `pywinauto`.

You can install these two packages by the following commands

```
pip install pywinauto
pip install psutil
```

Besides python, our tool use pin.exe to instrument the PDF Readers, you can download pin from https://www.intel.com/content/www/us/en/developer/articles/tool/pin-a-binary-instrumentation-tool-downloads.html.

We have already install the pin in the virtual machine.
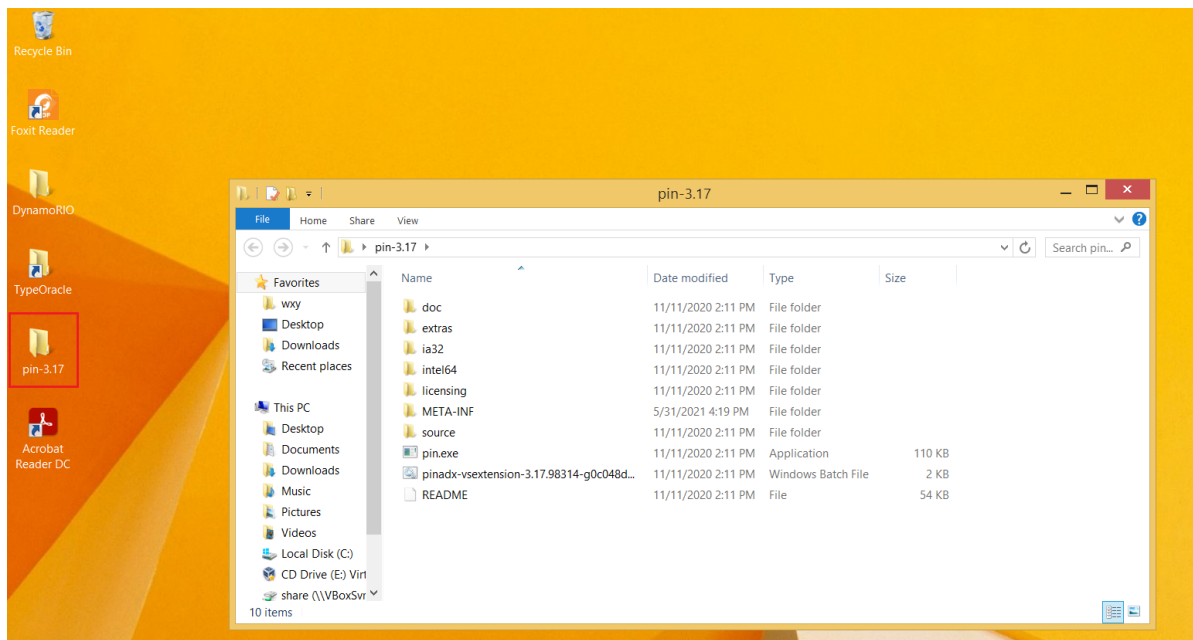
Last, you also need to install DynamoRIO, you can download it from https://dynamorio.org/page_releases.html.

We also install DynamoRIO in the provided virtual machine.
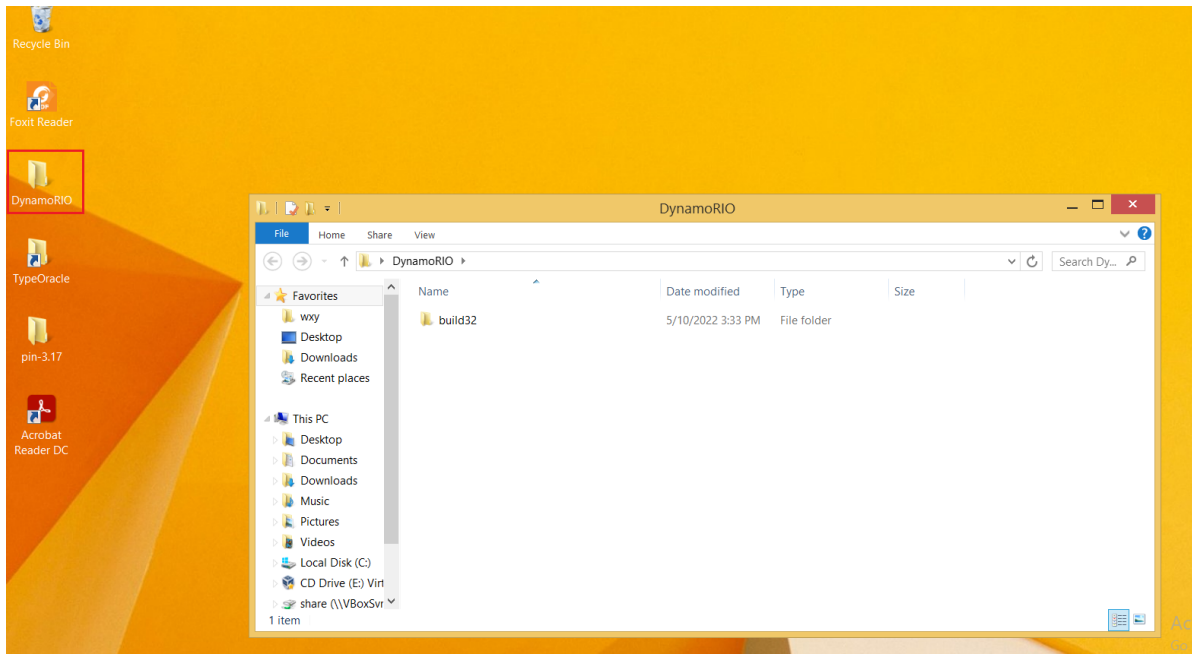
Target Software Install

In our experiment, we test our tool on two PDF Readers, Adobe Acrobat Reader and Foxit PDF Reader.

For Adobe Acrobat Reader, you can download it from https://helpx.adobe.com/acrobat/release-note/release-notes-acrobat-reader.html.

Acrobat and Acrobat Reader Continuous Track release notes

Date	Release Notes	Release Type*	Focus
Nov 17, 2022	DC Nov 2022 (22.003.2028x)	Optional Update	**Latest Release:** This patch fixes specific functionality issues.
Oct 22, 2022	DC Oct 2022 (22.003.20263)	Optional Update	**[Win Only]** This patch fixes specific functionality issues.
Oct 11, 2022	DC Oct 2022 (22.003.20258)	Continuous	This update provides new features, feature enhancements, and bug fixes.
Sep 09, 2022	DC Sep 2022 (22.002.20212)	Optional Update	This patch fixes specific functionality issues.
Aug 09, 2022	DC Aug 2022 (22.002.20191)	Continuous	This update provides security mitigations and bug fixes.
Jul 12, 2022	DC Jul 2022 (22.001.20169)	Continuous	This update provides security mitigations and bug fixes.
Jun 14, 2022	DC Jun 2022 (22.001.20142)	Continuous	This update provides new features, feature enhancements, and bug fixes.

For Foxit PDF Reader, you can download it from https://www.foxit.com/pdf-reader/version-history.html.

We also provide the installer packages in the virtual machine, you can find them in `C:\Users\wxy\TypeOracle\Other\Installers`