

Sandboxie Installation and Setup

Requirements

OS: Windows XP or Windows Server 2003.

Users must have individual Login accounts for this solution to work.

How Sandboxie works

Once Sandboxie is installed on the Host PC, it does not have to be installed again. Please purchase and register your Sandboxie software program. Sandboxie is launched when you launch an application you wish to be sandboxed. See below on how to create the shortcut. By default Sandboxie will create a sandboxed file store. The software will then copy any files the application uses, like the exe and dll's and data modules into the sandboxed file store. It will also create and contain any registry changes, file changes and created files. Thus if you opened an application that changed a registry setting, you created files with this app and you opened a virus infected file with this app. All the changes, virus and all would be trapped/contained in the sandbox file store. To clean this you simply delete the sandbox and it is like nothing ever happened.

Thus we are leveraging Sandboxie, to make non-multiuser applications, multiuser and have poked a few holes in the sandboxed file store for our purposes.

The two major holes we have created are.

First to allow any files we create and save to the C:\ drive (example "My Documents") to be saved to the C:\ drive and not the sandboxed file store.

Second is to NOT copy an applications exe, dll's and data modules into the sandboxed file store. This is for very large applications and or applications that are mapped to a network drive, to help keep network traffic down. Since the data files are static and not changed by the student anyway.

To Create a shortcut icon that will automatically sandbox an application

Create a shortcut on the desktop to movie maker

Right-click the icon and choose properties

Set the target to "C:\Program Files\Sandboxie\Start.exe" "C:\Program Files\Movie Maker\moviemk.exe"

Set the start in to "C:\Program Files\Sandboxie"

Now you can change the icon by pointing the icon to the program you wish to sandbox.

IE "C:\Program Files\Movie Maker\moviemk.exe"

To configure Sandboxie Control not to autostart with bootup, but to load when you run a Sandboxed application.

Choose "Start/Programs/Sandboxie/Sandboxie Control"

Right-click the yellow kite icon in the systray and choose "Open Main Window"

Click "Options" and make sure only "Run Sandboxie Control when Sandboxed Program Runs" is the only item with a check mark in front of it.

Choose "Function/Exit" to close Sandboxie control.

Application 1: Windows Movie Maker

Sandboxie configuration and use for non-multiuser applications, which makes them multi-user and allows the users to save to their created files to C:\Documents and Settings\userid\My Documents. Note: The files created on a Host PC group will only be available on that Host PC group. See *Note 1 below

Setup:

Install Sandboxie, choose defaults.

Close Sandboxie program via systray icon.

Replace the contents of C:\windows\sandboxie.ini with this.

```
##### Start of file #####
```

```
# Sandboxie Configuration File
```

```
# Automatically generated whenever the configuration changes.
```

```
# Set ConfigLevel to 99 to prevent the overwriting of this file.
```

```
[GlobalSettings]
```

```
ConfigLevel=1
```

```
BoxRootFolder=% APPDATA%
```

```
ForceDisableSeconds=10
```

```
FileTrace=.
```

```
PipeTrace=.
```

```
KeyTrace=.
```

```
IpTrace=.
```

```
GuiTrace=.
```

```
[DefaultBox]
```

```
Enabled=yes
```

```
CopyLimitKb=32768
```

```
CopyLimitSilent=Yes
```

```
OpenPipePath=% Personal%
```

```
### the above allows the application user to save any created file to their My Documents
```

```
### example = moviemaker output file or .mov
```

```
LingerProcess=acrord32.exe
```

```
LingerProcess=jusched.exe
```

```
LingerProcess=syncor.exe
```

```
BlockDrivers=y
```

```
BlockFakeInput=y
```

```
BlockWinHooks=y
```

```
BoxNameTitle=n
```

```
##### END OF FILE #####
```

```
Save the changes.
```

Application 2: Kidpix 4.0

Sandboxie configuration and use for KidPix, making it multi-user and allows the users to save to their created files to the default file store for KidPix. Which is C:\Documents and Settings\All Users\Application Data\The Learning Company\Kid Pix\Users\userid in KidPix)
Note: The files created on a Host PC group will only be available on that Host PC group. See Note 1 below

Setup:

Install Sandboxie, choose defaults.

Close Sandboxie program via systray icon.

Replace the contents of C:\windows\sandboxie.ini with this.

```
##### START OF FILE #####
```

```
# Sandboxie Configuration File
```

```
# Automatically generated whenever the configuration changes.
```

```
# Set ConfigLevel to 99 to prevent the overwriting of this file.
```

```
[GlobalSettings]
```

```
ConfigLevel=1
```

```
BoxRootFolder=%APPDATA%
```

```
ForceDisableSeconds=10
```

```
FileTrace=.
```

```
PipeTrace=.
```

```
KeyTrace=.
```

```
IpcTrace=.
```

```
GuiTrace=.
```

```
[DefaultBox]
```

```
Enabled=yes
```

```
CopyLimitKb=32768
```

```
CopyLimitSilent=Yes
```

```
OpenPipePath=C:\Documents and Settings\All Users\Application Data\The Learning Company\Kid Pix
```

```
### the above is to allow any files the children create and save to be save to the default
```

```
### kipix file store location on the Host PC.
```

```
LingerProcess=acrord32.exe
```

```
LingerProcess=jusched.exe
```

```
LingerProcess=syncor.exe
```

```
BlockDrivers=y
```

```
BlockFakeInput=y
```

```
BlockWinHooks=y
```

```
BoxNameTitle=n
```

```
#####END OF FILE #####
```

```
Save the changes.
```

Application 3: Success Maker

Sandboxie configuration to use a Multuser application that stores temp files on the C:\ drive; that are then imported into the applications database to record a score or test result. Thus the temp files are getting corrupted as all the users of our software/hardware solution share and use this C:\ drive location. This will allow sandboxie to place the temp files in the sandbox file store, thus making them safe from being over written by another student using the same application at the same time on the same Host PC group.

While not placing the actual application files in the sandbox file store. Thus not causing undo/unwanted network traffic; possibly coping large amount of data/files that are not changed. Like the applications exe and data modules.

Setup:

Install Sandboxie, choose defaults.

Close Sandboxie program via systray icon.

Replace the contents of C:\windows\sandboxie.ini with this.

```
##### START OF FILE #####
```

```
# Sandboxie Configuration File
```

```
# Automatically generated whenever the configuration changes.
```

```
# Set ConfigLevel to 99 to prevent the overwriting of this file.
```

```
[GlobalSettings]
```

```
ConfigLevel=1
```

```
BoxRootFolder=% APPDATA%
```

```
ForceDisableSeconds=10
```

```
FileTrace=.
```

```
PipeTrace=.
```

```
KeyTrace=.
```

```
IpTrace=.
```

```
GuiTrace=.
```

```
[DefaultBox]
```

```
Enabled=yes
```

```
CopyLimitKb=32768
```

```
CopyLimitSilent=Yes
```

```
OpenFilePath=LOGIN.EXE,T:\ResultsManager
```

```
## where login.exe is the applications exe and T:\path is the path the application resides,
```

```
## this will prevent sandboxie from coping the data modules across the network thus
```

```
## saving network traffic.
```

```
LingerProcess=acrord32.exe
```

```
LingerProcess=jusched.exe
```

```
LingerProcess=syncor.exe
```

```
BlockDrivers=y
```

```
BlockFakeInput=y
```

```
BlockWinHooks=y
```

```
BoxNameTitle=n
```

```
#####END OF FILE #####
```

```
Save the changes.
```

***Note 1 :** This will only work per Host PC group. Thus is Johnny uses Host PC group 1 and saves his creation. Then he can only access the created file from any Terminal or the Host PC in that Group. But he logs into KidPix on Host PC group 2, KidPix will create a file store for him, but this saved file remains on Host PC group 1. It is the same for any files created by a user, unless his/her “My Documents” is to a mapped network drive.

For more information about Sandboxie.ini setup file, go to.

<http://www.sandboxie.com/index.php?SandboxieIni>

For general Sandboxie help go to

<http://www.sandboxie.com/index.php?HelpTopics>

Other Quick Notes on the sandboxie ini file:

Edit Sandboxie.ini which resides in C:\Windows, and add the statement below in the [DefaultBox] section

```
OpenPipePath=%Personal%
```

This will disable the sandboxing of the user's My Documents, and any files saved there, or below that folder, thus bypassing the sandboxed file store and be saved to the real folder.

or you can open the parts as you specify the path.

```
OpenPipePath=C:\Program\files\applicationX
```

or look in your registry at

```
[HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders]
```

Anything that is listed there can be a %item% or you can create your own as needed.