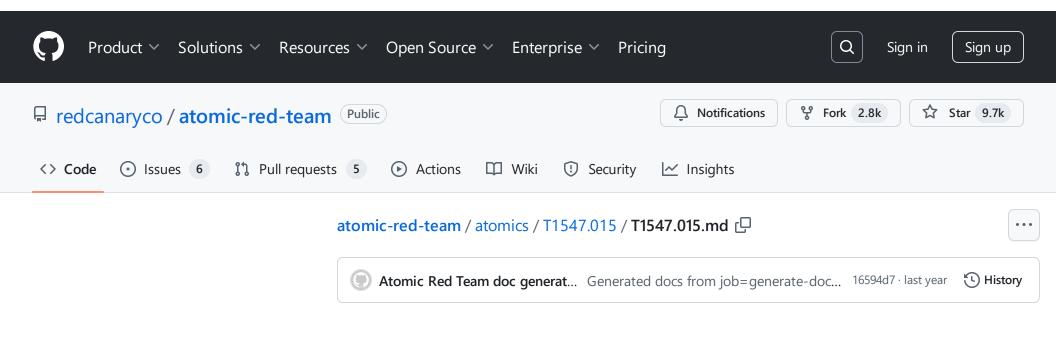
atomic-red-team/atomics/T1547.015/T1547.015.md at 74438b0237d141ee9c99747976447dc884cb1a39 · redcanaryco/atomic-red-team · GitHub - 02/11/2024 13:39 https://github.com/redcanaryco/atomic-red-

team/blob/74438b0237d141ee9c99747976447dc884cb1a39/atomics/T1547.015/T1547.015.md#atomic-test-1---persistence-by-modifying-windows-terminal-profile



T1547.015 - Boot or Logon Autostart Execution: Login Items

Description from ATT&CK

Adversaries may add login items to execute upon user login to gain persistence or escalate privileges. Login items are applications, documents, folders, or server connections that are automatically launched when a user logs in.(Citation: Open Login Items Apple) Login items can be added via a shared file list or Service Management Framework.(Citation: Adding Login Items) Shared file list login items can be set using scripting languages such as [AppleScript]

(https://attack.mitre.org/techniques/T1059/002), whereas the Service Management Framework uses the API call SMLoginItemSetEnabled.

Login items installed using the Service Management Framework leverage <code>launchd</code>, are not visible in the System Preferences, and can only be removed by the application that created them.(Citation: Adding Login Items)(Citation: SMLoginItemSetEnabled Schroeder 2013) Login items created using a shared file list are visible in System Preferences, can hide the application when it launches, and are executed through LaunchServices, not launchd, to open applications, documents, or URLs without using Finder.(Citation: Launch Services Apple Developer) Users and applications use login items to configure their user environment to launch commonly used services or applications, such as email, chat, and music applications.

Adversaries can utilize AppleScript and Native API calls to create a login item to spawn malicious executables.(Citation: ELC Running at startup) Prior to version 10.5 on macOS, adversaries can add login items by using AppleScript to send an Apple events to the "System Events" process, which has an AppleScript dictionary for manipulating login items.(Citation: Login Items AE) Adversaries can use a command such as tell application "System Events" to make login item at end with properties /path/to/executable .(Citation: Startup Items Eclectic)(Citation: hexed osx.dok analysis 2019)(Citation: Add List Remove Login Items Apple Script) This command adds the path of the malicious executable to the login item file list located in ~/Library/Application

Files

Preview

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Preview Code Blame 113 lines (66 loc) · 6.08 KB

malware 2017)(Citation: CheckPoint Dok)(Citation: objsee netwire backdoor 2019)

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Atomic Tests

- Atomic Test #1 Persistence by modifying Windows Terminal profile
- Atomic Test #2 Add macOS LoginItem using Applescript

team/blob/74438b0237d141ee9c99747976447dc884cb1a39/atomics/T1547.015/T1547.015.md#atomic-test-1---persistence-by-modifying-windows-terminal-profile

Atomic Test #1 - Persistence by modifying Windows Terminal profile

Modify Windows Terminal settings.json file to gain persistence. Twitter Post

Supported Platforms: Windows

auto_generated_guid: ec5d76ef-82fe-48da-b931-bdb25a62bc65

Inputs:

| Name | Description | Туре | |
|-------------------|---|--------|---|
| calculator | Test program used to imitate a maliciously called program. | string | calculator.exe |
| settings_json_def | Default file for Windows Terminal to replace the default profile with a backdoor to call another program. | path | ~\AppData\Local\Packages\Microsoft.Wind |
| settings_json_tmp | Temp file for Windows Terminal. | path | ~\AppData\Local\Temp\settings.json |
| wt_exe | Windows Terminal executable. | path | ~\AppData\Local\Microsoft\WindowsApps |

Attack Commands: Run with powershell!

```
mv #{settings_json_def} #{settings_json_tmp}
Invoke-WebRequest "https://github.com/redcanaryco/atomic-red-team/blob/mwt.exe
```

Cleanup Commands:

```
mv -Force #{settings_json_tmp} #{settings_json_def}
taskkill /F /IM "#{calculator}" > $null
```

Dependencies: Run with powershell!

Description: Windows Terminal must be installed

Check Prereq Commands:

```
if (Test-Path #{wt_exe}) {exit 0} else {exit 1}
```

T1003.001

T1003.002

- > T1003.008
- > **T**1003
- > **T**1006
- > T1007
- > T1010 > T1012
- > T1014
- > T1016
- > T1018 > T1020
- > T1021.001
- > **T**1021.002
- T1021.003
 T1021.006
- T1027.001
- > T1027.002
- T1027.004
- > T1027.006
- > T1027
- > T1030
- > **T**1033
- > T1036.003
- T1036.004
- T1036.005
- > T1036.006
- > **T1036**
- > T1037.001
- > T1037.002
- T1037.004
- > T1037.005
- > T1039

team/blob/74438b0237d141ee9c99747976447dc884cb1a39/atomics/T1547.015/T1547.015.md#atomic-test-1---persistence-by-modifying-windows-terminal-

Get Prereq Commands:

\$(rm ~\AppData\Local\Packages\Microsoft.DesktopAppInstaller_8wekyb3d8bbw 🚨

Atomic Test #2 - Add macOS LoginItem using Applescript

Runs osascript on a file to create new LoginItem for current user. NOTE: Will popup dialog prompting user to Allow or Deny Terminal.app to control "System Events" Therefore, it can't be automated until the TCC is granted. The login item launches Safari.app when user logs in, but there is a cleanup script to remove it as well. In addition to the osascript Process Events, file modification events to /Users/*/Library/Application

Support/com.apple.backgroundtaskmanagementagent/backgrounditems.btm should be seen.

Supported Platforms: macOS

auto_generated_guid: 716e756a-607b-41f3-8204-b214baf37c1d

Inputs:

| Name | Description | Type | Default Value |
|----------------|--|--------|--|
| scriptfile | path to Applescript source to add Safari LoginItem. | string | PathToAtomicsFolder/T1547.015/src/add_logi |
| cleanup_script | path to Applescript source to delete Safari LoginItem. | string | PathToAtomicsFolder/T1547.015/src/remove_l |

Attack Commands: Run with bash!

osascript #{scriptfile}



Cleanup Commands:

osascript #{cleanup_script}

Q