

> T1036

Actions Wiki Security ✓ Insights atomic-red-team / atomics / T1083 / T1083.md Atomic Red Team doc generat... Generated docs from job=generate-d... e48781e · 2 years ago Raw 📮 🕹 **Preview** Code Blame 288 lines (159 loc) · 7.99 KB T1083 - File and Directory Discovery

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Description from ATT&CK

Adversaries may enumerate files and directories or may search in specific locations of a host or network share for certain information within a file system. Adversaries may use the information from [File and Directory Discovery]

(https://attack.mitre.org/techniques/T1083) during automated discovery to shape follow-on behaviors, including whether or not the adversary fully infects the target and/or attempts specific actions.

Many command shell utilities can be used to obtain this information. Examples include dir, tree, ls, find, and locate (Citation: Windows Commands JPCERT) Custom tools may also be used to gather file and directory information and interact with the Native API. Adversaries may also leverage a Network Device CLI on network devices to gather file and directory information.(Citation: US-CERT-TA18-106A)

Atomic Tests

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Atomic Test #1 - File and Directory Discovery (cmd.exe)

Find or discover files on the file system. Upon successful execution, this test will output the results of all the data discovery commands to a specified file.

Supported Platforms: Windows

auto_generated_guid: 0e36303b-6762-4500-b003-127743b80ba6

Inputs:

Name	Description	Type	Default Value
output_file	File to output results to	String	%temp%\T1083Test1.txt

```
    T1037.001
    T1037.002
    T1037.004
    T1037.005
    T1039
    T1040
```

Attack Commands: Run with command_prompt!

```
dir /s c:\ >> #{output_file}
dir /s "c:\Documents and Settings" >> #{output_file}
dir /s "c:\Program Files\" >> #{output_file}
dir "%systemdrive%\Users\*.*" >> #{output_file}
dir "%userprofile%\AppData\Roaming\Microsoft\Windows\Recent\*.*" >> #{output_file}
tree /F >> #{output_file}
```

Cleanup Commands:

```
del #{output_file}
```

Atomic Test #2 - File and Directory Discovery (PowerShell)

Find or discover files on the file system. Upon execution, file and folder information will be displayed.

Supported Platforms: Windows

auto_generated_guid: 2158908e-b7ef-4c21-8a83-3ce4dd05a924

Attack Commands: Run with powershell!

```
ls -recurse
get-childitem -recurse
gci -recurse
```

Atomic Test #3 - Nix File and Directory Discovery

Find or discover files on the file system

References:

http://osxdaily.com/2013/01/29/list-all-files-subdirectory-contents-recursively/

https://perishablepress.com/list-files-folders-recursively-terminal/

Supported Platforms: macOS, Linux

 ${\color{blue}\textbf{auto_generated_guid:}}\ ffc 8b 249 - 372a - 4b 74 - adcd - e4c 0430842 de$

Inputs:

Name	Description	Туре	Default Value
output_file	output_file Output file used to store the results.		/tmp/T1083.txt

Attack Commands: Run with sh!

```
ls -a >> #{output_file}
if [ -d /Library/Preferences/ ]; then ls -la /Library/Preferences/ > #{o
file */* *>> #{output_file}
cat #{output_file} 2>/dev/null
find . -type f
ls -R | grep ":$" | sed -e 's/:$//' -e 's/[^-][^\/]*\//--/g' -e 's/^/ /'
```

```
locate *
which sh
```

Cleanup Commands:

```
rm #{output_file}
```

Atomic Test #4 - Nix File and Directory Discovery 2

Find or discover files on the file system

Supported Platforms: macOS, Linux

auto_generated_guid: 13c5e1ae-605b-46c4-a79f-db28c77ff24e

Inputs:

Name	Description	Туре	Default Value
output_file	Output file used to store the results.	Path	/tmp/T1083.txt

Attack Commands: Run with sh!

```
cd $HOME && find . -print | sed -e 's;[^/]*/;|__;g;s;__|; |;g' > #{outpur continuous of the conti
```

Cleanup Commands:

```
rm #{output_file}
```

Atomic Test #5 - Simulating MAZE Directory Enumeration

This test emulates MAZE ransomware's ability to enumerate directories using Powershell. Upon successful execution, this test will output the directory enumeration results to a specified file, as well as display them in the active window. See

https://www.mandiant.com/resources/tactics-techniques-procedures-associated-with-maze-ransomware-incidents

Supported Platforms: Windows

auto_generated_guid: c6c34f61-1c3e-40fb-8a58-d017d88286d8

Inputs:

	Name Description File_to_output File to output results to		Туре	Default Value	
			String	\$env:temp\T1083Test5.txt	

Attack Commands: Run with powershell!

```
$folderarray = @("Desktop", "Downloads", "Documents", "AppData/Local", ". Get-ChildItem -Path $env:homedrive -ErrorAction SilentlyContinue | Out-F
Get-ChildItem -Path $env:programfiles -erroraction silentlycontinue | Out
Get-ChildItem -Path "${env:ProgramFiles(x86)}" -erroraction silentlycont
```

```
$UsersFolder = "$env:homedrive\Users\"
foreach ($directory in Get-ChildItem -Path $UsersFolder -ErrorAction Sile
{
    foreach ($secondarydirectory in $folderarray)
        {Get-ChildItem -Path "$UsersFolder/$directory/$secondarydirectory" -Error}
} cat #{File_to_output}
```

Cleanup Commands:

```
remove-item #{File_to_output} -ErrorAction SilentlyContinue
```

Atomic Test #6 - Launch DirLister Executable

Launches the DirLister executable for a short period of time and then exits.

Recently seen used by <u>BlackCat ransomware</u> to create a list of accessible directories and files.

Supported Platforms: Windows

auto_generated_guid: c5bec457-43c9-4a18-9a24-fe151d8971b7

Inputs:

Name	Description	Type	Default Value
dirlister_path	Path to the DirLister executable	String	PathToAtomicsFolder\T1083\bin\DirLister.exe

Attack Commands: Run with powershell!

```
Start-Process #{dirlister_path}
Start-Sleep -Second 4
Stop-Process -Name "DirLister"
```

Dependencies: Run with powershell!

Description: DirLister.exe must exist in the specified path #{dirlister_path}

Check Prereq Commands:

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

Get Prereq Commands:

```
$parentpath = Split-Path "#{dirlister_path}"
Invoke-WebRequest https://github.com/SanderSade/DirLister/releases/downl
New-Item -ItemType Directory -Force -Path $parentpath | Out-Null
Expand-Archive -Path $env:TEMP\TDirLister.v2.beta4.zip -DestinationPath :
Copy-Item $env:TEMP\TDirLister.v2.beta4\* $parentpath -Recurse
Remove-Item $env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip,$env:TEMP\TDirLister.v2.beta4.zip.
```