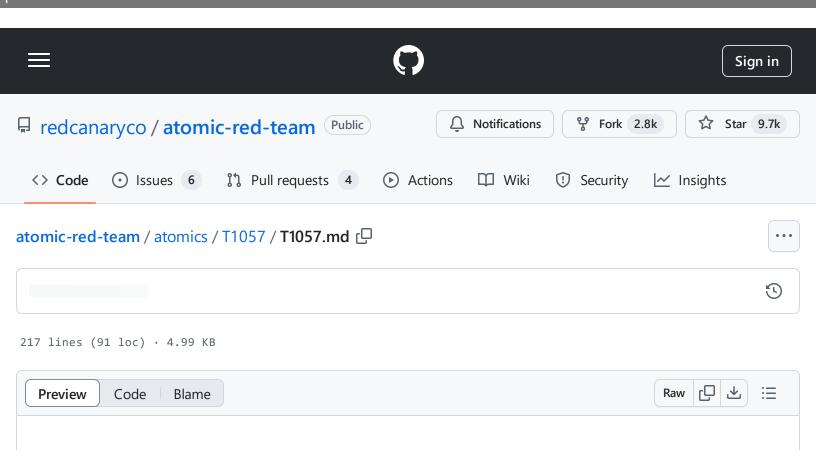
atomic-red-team/atomics/T1057/T1057.md at 02cb591f75064ffe1e0df9ac3ed5972a2e491c97 · redcanaryco/atomic-red-team · GitHub - 31/10/2024 17:59 https://github.com/redcanaryco/atomic-red-team/blob/02cb591f75064ffe1e0df9ac3ed5972a2e491c97/atomics/T1057/T1057.md#atomic-test-6---discover-specific-process---tasklist



# T1057 - Process Discovery

## **Description from ATT&CK**

Adversaries may attempt to get information about running processes on a system. Information obtained could be used to gain an understanding of common software/applications running on systems within the network. Adversaries may use the information from [Process Discovery] (<a href="https://attack.mitre.org/techniques/T1057">https://attack.mitre.org/techniques/T1057</a>) during automated discovery to shape follow-on behaviors, including whether or not the adversary fully infects the target and/or attempts specific actions.

In Windows environments, adversaries could obtain details on running processes using the <u>Tasklist</u> utility via <u>cmd</u> or <u>Get-Process</u> via <u>PowerShell</u>. Information about processes can also be extracted from the output of <u>Native API</u> calls such as <u>CreateToolhelp32Snapshot</u>. In Mac and Linux, this is accomplished with the <u>ps</u> command. Adversaries may also opt to enumerate processes via /proc.

On network devices, <u>Network Device CLI</u> commands such as <u>show processes</u> can be used to display current running processes.(Citation: US-CERT-TA18-106A)(Citation: show\_processes\_cisco\_cmd)

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#### **Atomic Tests**

- Atomic Test #1 Process Discovery ps
- Atomic Test #2 Process Discovery tasklist
- Atomic Test #3 Process Discovery Get-Process
- Atomic Test #4 Process Discovery get-wmiObject
- Atomic Test #5 Process Discovery wmic process
- Atomic Test #6 Discover Specific Process tasklist

### Atomic Test #1 - Process Discovery - ps

Utilize ps to identify processes.

Upon successful execution, sh will execute ps and output to /tmp/loot.txt.

Supported Platforms: macOS, Linux

auto\_generated\_guid: 4ff64f0b-aaf2-4866-b39d-38d9791407cc

#### Inputs:

Name	Description	Туре	Default Value
output_file	path of output file	path	/tmp/loot.txt

#### Attack Commands: Run with sh!

```
ps >> #{output_file}
ps aux >> #{output_file}
```

#### **Cleanup Commands:**

```
rm #{output_file}
```

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### Atomic Test #2 - Process Discovery - tasklist

Utilize tasklist to identify processes.

Upon successful execution, cmd.exe will execute tasklist.exe to list processes. Output will be via stdout.

Supported Platforms: Windows

auto\_generated\_guid: c5806a4f-62b8-4900-980b-c7ec004e9908

Attack Commands: Run with command\_prompt!

tasklist

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### Atomic Test #3 - Process Discovery - Get-Process

Utilize Get-Process PowerShell cmdlet to identify processes.

Upon successful execution, powershell.exe will execute Get-Process to list processes. Output will be via stdout.

Supported Platforms: Windows

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Attack Commands: Run with powershell!

Get-Process



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### Atomic Test #4 - Process Discovery - get-wmiObject

Utilize get-wmiObject PowerShell cmdlet to identify processes.

Upon successful execution, powershell.exe will execute get-wmiObject to list processes. Output will be via stdout.

Supported Platforms: Windows

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Attack Commands: Run with powershell!

get-wmiObject -class Win32\_Process

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#### Atomic Test #5 - Process Discovery - wmic process

Utilize windows management instrumentation to identify processes.

Upon successful execution, WMIC will execute process to list processes. Output will be via stdout.

Supported Platforms: Windows

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Attack Commands: Run with command\_prompt!

wmic process get /format:list

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### **Atomic Test #6 - Discover Specific Process - tasklist**

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team/blob/02cb591f75064ffe1e0df9ac3ed5972a2e491c97/atomics/T1057/T1057.md#atomic-test-6---discover-specific-process---tasklist

Adversaries may use command line tools to discover specific processes in preparation of further attacks. Examples of this could be discovering the PID of Isass.exe to dump its memory or discovering whether specific security processes (e.g. AV or EDR) are running.

**Supported Platforms:** Windows

auto\_generated\_guid: 11ba69ee-902e-4a0f-b3b6-418aed7d7ddb

#### Inputs:

Name	Description	Туре	Default Value
process_to_enumerate	Process name string to search for.	string	Isass

Attack Commands: Run with command\_prompt!

tasklist | findstr #{process\_to\_enumerate}

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