

# 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] (<https://attack.mitre.org/techniques/T1057>) 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 [Tasklist](#) utility via [cmd](#) or `Get-Process` via [PowerShell](#). Information about processes can also be extracted from the output of [Native API](#) calls such as `CreateToolhelp32Snapshot`. In Mac and Linux, this is accomplished with the `ps` command. Adversaries may also opt to enumerate processes via `/proc`.

## Atomic Tests

- [Atomic Test #1 - Process Discovery - ps](#)

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# 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	Type	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}
```

# 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
```



## 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

**auto\_generated\_guid:** 3b3809b6-a54b-4f5b-8aff-cb51f2e97b34

**Attack Commands:** Run with **powershell** !

```
Get-Process
```



## 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

**auto\_generated\_guid:** b51239b4-0129-474f-a2b4-70f855b9f2c2

**Attack Commands:** Run with **powershell** !

```
get-wmiObject -class Win32_Process
```



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

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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

**auto\_generated\_guid:** 640cbf6d-659b-498b-ba53-f6dd1a1cc02c

**Attack Commands:** Run with **command\_prompt** !

```
wmic process get /format:list
```

