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
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
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
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
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
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
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
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
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
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
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
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
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
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>  T1027.002


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 History


Preview


Code


Blame

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T1049 - System Network Connections Discovery

Description from ATT&CK

Adversaries may attempt to get a listing of network connections to or from the compromised system they are currently accessing or from remote systems by querying for information over the network.

An adversary who gains access to a system that is part of a cloud-based environment may map out Virtual Private Clouds or Virtual Networks in order to determine what systems and services are connected. The actions performed are likely the same types of discovery techniques depending on the operating system, but the resulting information may include details about the networked cloud environment relevant to the adversary's goals. Cloud providers may have different ways in which their virtual networks operate.(Citation: Amazon AWS VPC Guide)(Citation: Microsoft Azure Virtual Network Overview)(Citation: Google VPC Overview) Similarly, adversaries who gain access to network devices may also perform similar discovery activities to gather information about connected systems and services.

Utilities and commands that acquire this information include [netstat](#), "net use," and "net session" with [Net](#). In Mac and Linux, [netstat](#) and `lsof` can be used to list current connections. `who -a` and `w` can be used to show which users are currently logged in, similar to "net session". Additionally, built-in features native to network devices and [Network Device CLI](#) may be used.(Citation: US-CERT-TA18-106A)

Atomic Tests







- [Atomic Test #1 - System Network Connections Discovery](#)
- [Atomic Test #2 - System Network Connections Discovery with PowerShell](#)
- [Atomic Test #3 - System Network Connections Discovery Linux & MacOS](#)
- [Atomic Test #4 - System Discovery using SharpView](#)

Atomic Test #1 - System Network Connections Discovery

Get a listing of network connections.

Upon successful execution, cmd.exe will execute `netstat` , `net use` and `net sessions` . Results will output via stdout.

Supported Platforms: Windows

- >  T1037.001
- >  T1037.002
- >  T1037.004
- >  T1037.005
- >  T1039
- >  T1040

auto_generated_guid: 0940a971-809a-48f1-9c4d-b1d785e96ee5

Attack Commands: Run with `command_prompt` !

```
netstat
net use
net sessions
```

Atomic Test #2 - System Network Connections Discovery with PowerShell

Get a listing of network connections.

Upon successful execution, powershell.exe will execute `get-NetTCPConnection` . Results will output via stdout.

Supported Platforms: Windows

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Attack Commands: Run with `powershell` !

```
Get-NetTCPConnection
```

Atomic Test #3 - System Network Connections Discovery Linux & MacOS

Get a listing of network connections.

Upon successful execution, sh will execute `netstat` and `who -a` . Results will output via stdout.

Supported Platforms: Linux, macOS

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Attack Commands: Run with `sh` !

```
netstat
who -a
```

Dependencies: Run with `sh` !

Description: Check if netstat command exists on the machine

Check Prereq Commands:

```
if [ -x "$(command -v netstat)" ]; then exit 0; else exit 1; fi;
```

Get Prereq Commands:

```
echo "Install netstat on the machine."; exit 1;
```

