

Windows privilege escalation.

Windows privilege escalation is how an attacker goes from a standard user to SYSTEM or local Administrator. The frequent paths are token-impersonation privileges (SeImpersonate) abused through Potato attacks, weak service permissions, unquoted service paths, the AlwaysInstallElevated policy, DLL hijacking, and UAC bypasses. As on Linux, it is mostly enumeration: list privileges, services, and writable locations until a path to SYSTEM appears. Scripts like winpeas automate the sweep.

HOW IT WORKS

01 The common escalation paths

The recurring Windows privesc vectors, each with its own page:

- **SeImpersonatePrivilege:** a privilege common on service accounts. [Details.](#)
- **Potato attacks:** tools that turn SeImpersonate into SYSTEM. [Details.](#)
- **Weak service permissions:** a service you can reconfigure. [Details.](#)
- **Unquoted service paths:** a path with spaces that lets you plant an executable. [Details.](#)
- **AlwaysInstallElevated:** MSI packages that install as SYSTEM. [Details.](#)
- **DLL hijacking:** a program loading a DLL from a writable path. [Details.](#)
- **UAC bypass:** elevating without a prompt. [Details.](#)
- **Dangerous privileges:** SeBackup, SeRestore, SeDebug and more. [Details.](#)

02 Enumeration: where it starts

Windows escalation starts by listing privileges, services, and writable spots. Common first commands:

- `whoami /priv` to list the current token's privileges
- `whoami /groups` for group membership
- `wmic service get name,pathname,startmode` to find service paths
- `systeminfo` to check the patch level

SOURCES

- [1] MITRE ATT&CK: Privilege Escalation (TA0004)
- [2] Microsoft: Privilege Constants (Windows)
- [3] NIST SP 800-115 Technical Guide to Security Testing

- check writable service binaries and HKLM/HKCU install policy

The PEAS script winpeas automates this. The skill is spotting which privilege or service actually reaches SYSTEM.

WATCH FOR SEIMPERSONATE

If whoami /priv shows SeImpersonatePrivilege enabled (common on IIS and SQL service accounts), a Potato attack usually grants SYSTEM directly. It is the first thing to check on Windows.

Find the privilege-escalation paths before an attacker does.

securelayer7.net/learn/privilege-escalation/windows-privilege-escalation

[Open online](https://securelayer7.net/learn/privilege-escalation/windows-privilege-escalation)