

Impair Defenses: Safe Mode Boot, Sub-technique T1562.009 - Enterprise

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Adversaries may abuse Windows safe mode to disable endpoint defenses. Safe mode starts up the Windows operating system with a limited set of drivers and services. Third-party security software such as endpoint detection and response (EDR) tools may not start after booting Windows in safe mode. There are two versions of safe mode: Safe Mode and Safe Mode with Networking. It is possible to start additional services after a safe mode boot. [\[1\]\[2\]](#)

Adversaries may abuse safe mode to disable endpoint defenses that may not start with a limited boot. Hosts can be forced into safe mode after the next reboot via modifications to Boot Configuration Data (BCD) stores, which are files that manage boot application settings. [\[3\]](#)

Adversaries may also add their malicious applications to the list of minimal services that start in safe mode by modifying relevant Registry values (i.e. [Modify Registry](#)). Malicious [Component Object Model](#) (COM) objects may also be registered and loaded in safe mode. [\[2\]\[4\]\[5\]\[6\]](#)

Source: <https://attack.mitre.org/techniques/T1562/009>