

# 5 - wininit.exe > services.exe

Task 7 ☐ wininit.exe > services.exe

The next process is the **Service Control Manager (SCM)** or **services.exe**. Its primary responsibility is to handle system services: loading services, interacting with services and starting or ending services. It maintains a database that can be queried using a Windows built-in utility, **sc.exe**.

```
cmd.exe

C:\Users\Administrator> sc.exe

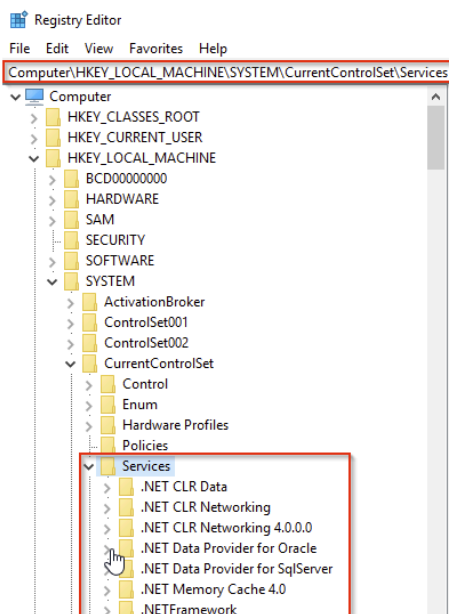
DESCRIPTION:

    SC is a command line program used for communicating with the
    Service Control Manager and services.

USAGE:

    sc <server> [command] [service name] <option1> <option2>...
```

Information regarding services is stored in the registry, **HKLM\System\CurrentControlSet\Services**.



This process also loads device drivers marked as auto-start into memory.

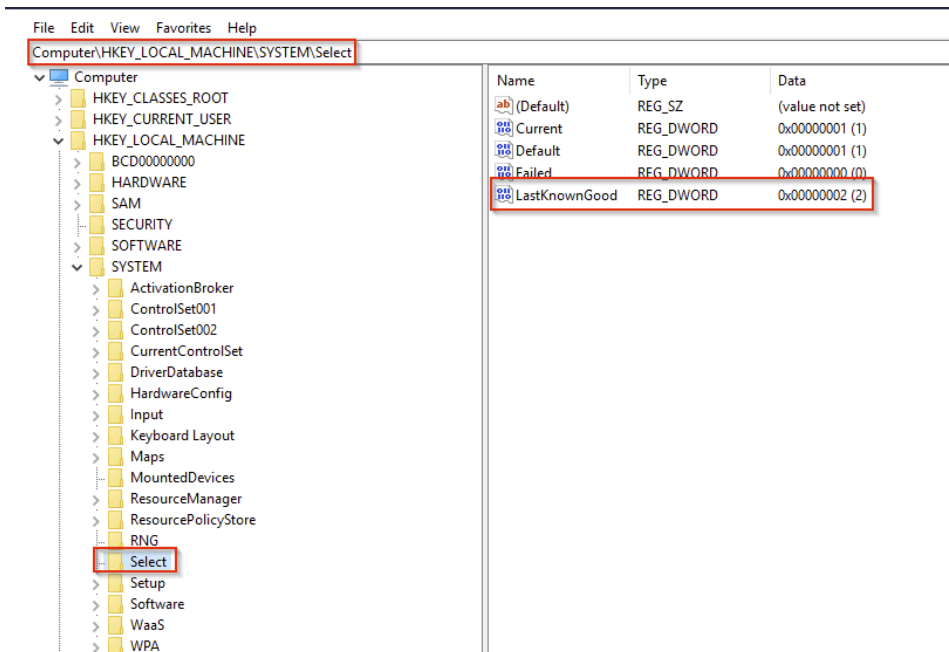
When a user logs into a machine successfully, this process is responsible for setting the value of the Last Known Good control set (Last Known Good Configuration), **HKLM\System\Select\LastKnownGood**, to that of the CurrentControlSet.

Registry Editor

File Edit View Favorites Help

Computer\HKEY\_LOCAL\_MACHINE\SYSTEM\Select

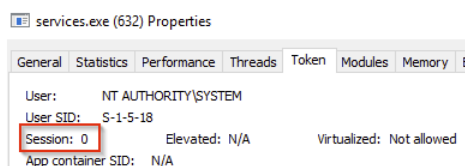
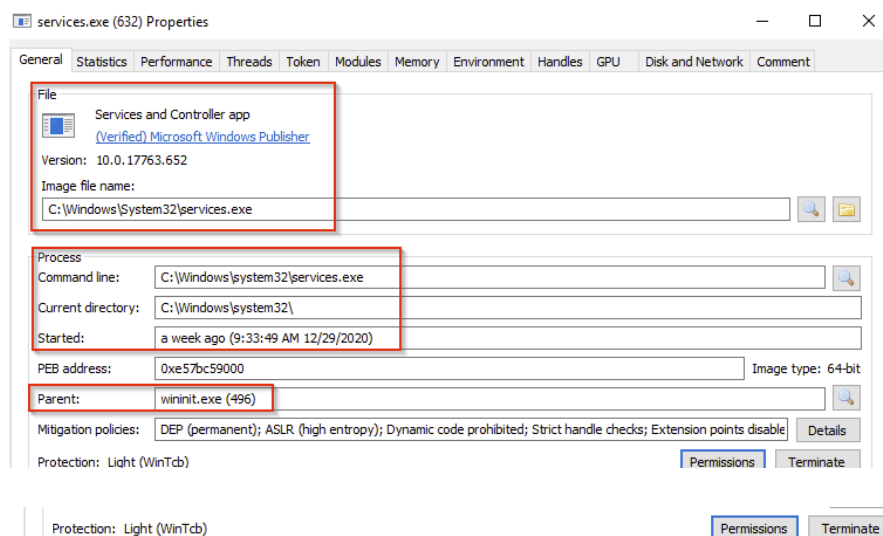
	Name	Type	Data
Computer	(Default)	REG_SZ	(value not set)
HKEY_CLASSES_ROOT	Current	REG_DWORD	0x00000001 (1)
HKEY_CURRENT_USER			
HKEY_LOCAL_MACHINE			



This process is the parent to several other key processes: svchost.exe, spoolsv.exe, msmpeg.exe, and dllhost.exe, to name a few. You can read more about this process [here](#).

wininit.exe	496	NT AUTHORITY\SYSTEM	Windows Start-Up Application	C:\Windows\System32\wininit.exe
services.exe	632	NT AUTHORITY\SYSTEM	Services and Controller app	C:\Windows\System32\services.exe
svchost.exe	748	NT AUTHORITY\SYSTEM	Host Process for Windows Services	C:\Windows\System32\svchost.exe
svchost.exe	860	NT AUTHORITY\NETWORK SERVICE	Host Process for Windows Services	C:\Windows\System32\svchost.exe
svchost.exe	416	NT AUTHORITY\LOCAL SERVICE	Host Process for Windows Services	C:\Windows\System32\svchost.exe
svchost.exe	384	NT AUTHORITY\LOCAL SERVICE	Host Process for Windows Services	C:\Windows\System32\svchost.exe
svchost.exe	628	NT AUTHORITY\SYSTEM	Host Process for Windows Services	C:\Windows\System32\svchost.exe

What is normal?



**Image Path:** %SystemRoot%\System32\services.exe

**Parent Process:** wininit.exe

**Number of Instances:** One

**User Account:** Local System

**Start Time:** Within seconds of boot time

What is unusual?

- A parent process other than wininit.exe
- Image file path other than C:\Windows\System32
- Subtle misspellings to hide rogue processes in plain sight
- Multiple running instances
- Not running as SYSTEM

