

Windows add / delete services command sc.exe create/delete - Create or Delete services

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```
C:\WINNT\system32\cmd.exe

C:\>sc
DESCRIPTION:
SC is a command line program used for communicating with the
NT Service Controller and services.
USAGE:
sc <server> [command] [service name] <option1> <option2>...

The option <server> has the form "\\ServerName"
Further help on commands can be obtained by typing: "sc [command]"
Commands:
query-----Queries the status for a service, or
              enumerates the status for types of services.
queryex-----Queries the extended status for a service, or
              enumerates the status for types of services.
start-----Starts a service.
pause-----Sends a PAUSE control request to a service.
interrogate---Sends an INTERROGATE control request to a service.
continue-----Sends a CONTINUE control request to a service.
stop-----Sends a STOP request to a service.
config-----Changes the configuration of a service <persistant>.
description---Changes the description of a service.
failure-----Changes the actions taken by a service upon failure.
qc-----Queries the configuration information for a service.
qdescription---Queries the description for a service.
qfailure-----Queries the actions taken by a service upon failure.
delete-----Deletes a service <from the registry>.
create-----Creates a service. <adds it to the registry>.
control-----Sends a control to a service.
sdshow-----Displays a service's security descriptor.
sdset-----Sets a service's security descriptor.
GetDisplayName--Gets the DisplayName for a service.
GetKeyName-----Gets the ServiceKeyName for a service.
EnumDepend-----Enumerates Service Dependencies.

The following commands don't require a service name:
sc <server> <command> <option>
boot-----<ok ! bad> Indicates whether the last boot should
              be saved as the last-known-good boot configuration
Lock-----Locks the Service Database
QueryLock-----Queries the LockStatus for the SCManager Database

EXAMPLE:
sc start MyService

Would you like to see help for the QUERY and QUERYEX commands? [ y | n ]:
C:\>sc \\istw1849 STOP "hpgcxs08"

SERVICE_NAME: hpgcxs08
        TYPE               : 20  WIN32_SHARE_PROCESS
        STATE                : 3   STOP_PENDING
                           (STOPPABLE,NOT_PAUSABLE,IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE       : 0   (0x0)
        SERVICE_EXIT_CODE    : 0   (0x0)
        CHECKPOINT           : 0x0
        WAIT_HINT            : 0x0
```

If you end up in situation where you need to delete or create services from current existing ones with a batch script because it is existing on multiple servers and you want to automate / deploy it via batch (.bat) script you will have to use sc.exe tool - Service Controller Command Tool

SC.EXE command is **standard windows console tool to create and delete services**. If you want to create a new service, you can use the "create" parameter.

1. Deleting Service with Windows Service Controller Tool

Deleting service is very easy to do you just have to know the service you like to remove not to be listed or Automatically start

```
sc delete SERVICE_NAME_TO_BE_REMOVED
```

Below is a real time example on how to remove Apache webserver configured to auto-start

```
sc.exe delete ApacheService
```

```
[SC] DeleteService SUCCESS
```

2. Create / Add service to existing to auto start on Windows

Before running **sc.exe create** command with arguments for service you will need to know following info:

- **What will be the Service Name:** *A single word to name the new service.*
- **Full Binary Path:** *The path name where the executable program for new service is currently located.*
- **Display Name for service:** *A short name for the new service.*

```
C:\Windows>sc.exe create ApacheService  
binPath= "C:\local\apache\bin\httpd.exe -k runservice"  
DisplayName= "Apache Server"
```

```
[SC] CreateService SUCCESS
```

Once service is added to be showing in **services.msc** GUI you can start the newly added Apache service with:

C:\Windows>**sc.exe start ApacheService**

```
SERVICE_NAME: ApacheService
TYPE           : 10  WIN32_OWN_PROCESS
STATE          : 2  START_PENDING
                (NOT_STOPPABLE,NOT_PAUSABLE,IGNORES_SHUTDOWN)
WIN32_EXIT_CODE : 0  (0x0)
SERVICE_EXIT_CODE : 0  (0x0)
CHECKPOINT     : 0x2
WAIT_HINT      : 0x7530
PID            : 2552
FLAGS          :
```

To stop the ApacheService or any other service:

C:\Windows>**sc.exe stop ApacheService**

```
SERVICE_NAME: ApacheService
TYPE           : 10  WIN32_OWN_PROCESS
STATE          : 3  STOP_PENDING
                (NOT_STOPPABLE,NOT_PAUSABLE,IGNORES_SHUTDOWN)
WIN32_EXIT_CODE : 0  (0x0)
SERVICE_EXIT_CODE : 0  (0x0)
CHECKPOINT     : 0x4
WAIT_HINT      : 0x7530
```

To get the status of a running service lets say the recently ran ApacheService:

C:\Windows>**sc.exe query ApacheService**

```
SERVICE_NAME: ApacheService
TYPE           : 10  WIN32_OWN_PROCESS
STATE          : 4  RUNNING
```

```
(STOPPABLE,NOT_PAUSABLE,IGNORES_SHUTDOWN)
WIN32_EXIT_CODE : 0 (0x0)
SERVICE_EXIT_CODE : 0 (0x0)
CHECKPOINT      : 0x0
WAIT_HINT       : 0x0
```

As you see from above output the STATE of service is RUNNING. If Apache Webserver was not running you will get an error like:

```
[SC] EnumQueryServicesStatus:OpenService FAILED 1060:
The specified service does not exist as an installed service.
```

Enjoy sc-ing :)