

Service Checks

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Service or Daemon Checks

Service or Daemon checks are system processes that run in the background, usually configured to start when the system boots. There are several different use cases covered in this

- [Service - Started](#)
- [Service - Stopped](#)
- [Multiple Services](#)

The sections below provide examples of how to perform these checks using different methods.

Service - Started

Check to see if a service is started.

Nagios Plugins

Nagios Plugins does not include a service plugin however the [linux-nrpe-agent](#) does provide `check_init_service`. The plugin returns a CRITICAL state if the service is not started.

Service Name: crond

Command:

```
./check_init_service crond
```

Output:

```
crond (pid 1689) is running...
```

NCPA

NCPA includes a service module that can check if a service is running.

Service Name: Spooler

Command:

```
./check_ncpa.py -H 10.25.14.91 -t Str0ngT0k3n -M service -q service=Spooler,status=running
```

Output:

```
OK: Spooler is running
```

Be aware that the service module is cAsE SeNsative, you can overcome this with the `match=` argument.

Command:

```
./check_ncpa.py -H 10.25.14.91 -t Str0ngT0k3n -M service -q service=spooler,status=running,match=search
```

Output:

```
OK: Spooler is running
```

NSClient++ via check_nt

NSClient++ includes a service module that can check if a service is running.

Service Name: Spooler

Command:

```
./check_nt -H 10.25.14.10 -p 12489 -s 'Str0ngP@ssw0rd' -v SERVICESTATE -l Spooler -d SHOWALL
```

Output:

```
Spooler: Started
```

NSClient++ via check_nrpe

NSClient++ includes a service module that can check if a service is running.

Service Name: Spooler

Command:

```
./check_nrpe -H 10.25.14.10 -c check_service -a service=spooler
```

Output:

```
OK: All 1 service(s) are ok.
```

WMI

Check WMI Plus includes a service module that can check if a service is running.

Service Name: Spooler

Command:

```
./check_wmi_plus.pl -H 10.25.14.3 -u wmiagent -p Str0ngP@ssw0rd -m checkservice -a 'Spooler' -c _Total=1: -c 0
```

Output:

```
OK - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'Print Spooler' (Spooler) is Running.|'Total Service Count'=1;1; 'S
```

SNMP

Checking if a service is running using SNMP is not very straight forward, checking a process is the best solution here, please refer to the [Process Checks](#) KB article.

Service - Stopped

Check to see if a service is stopped.

Nagios Plugins

Nagios Plugins does not include a service plugin however the [linux-nrpe-agent](#) does provide `check_init_service`. The plugin can only check if the service is started, you could however us

Service Name: crond

Command:

```
./negate ./check_init_service crond
```

Output:

```
crond is stopped
```

NCPA

NCPA includes a service module that can check if a service is stopped.

Service Name: RemoteAccess

Command:

```
./check_ncpa.py -H 10.25.14.91 -t Str0ngT0k3n -M service -q service=RemoteAccess,status=stopped
```

Output:

```
OK: RemoteAccess is stopped
```

Be aware that the service module is cAsE SeNsative, you can overcome this with the `match=` argument.

Command:

```
./check_ncpa.py -H 10.25.14.91 -t Str0ngT0k3n -M service -q service=remoteaccess,status=stopped,match=search
```

Output:

```
OK: RemoteAccess is stopped
```

NSClient++ via check_nt

NSClient++ includes a service module that can check if a service is running. The module can only check if the service is started, you could however use the `negate` plugin to invert the retu

Service Name: RemoteAccess

Command:

```
./negate -s ./check_nt -H 10.25.14.10 -p 12489 -s 'Str0ngP@ssw0rd' -v SERVICESTATE -l RemoteAccess
```

Output:

```
OK: RemoteAccess: Stopped, delayed ()
```

NSClient++ via check_nrpe

NSClient++ includes a service module that can check if a service is stopped.

Service Name: RemoteAccess

Command:

```
./check_nrpe -H 10.25.14.10 -c check_service -a service=RemoteAccess "ok=state='stopped'" "warning=not state='stopped'" "critical=no"
```

Output:

```
OK: All 1 service(s) are ok.
```

WMI

Check WMI Plus includes a service module that can check if a service is stopped. The module defines a "good" service as one that is running and a "bad" service is one that is not running.

Service Name: RemoteAccess

Command:

```
./check_wmi_plus.pl -H 10.25.14.3 -u wmiagent -p Str0ngP@ssw0rd -m checkservice -a 'RemoteAccess' -c _NumGood=0
```

Output:

```
OK - Found 1 Services(s), 0 OK and 1 with problems (0 excluded). 'Routing and Remote Access' (RemoteAccess) is Stopped. | Total Servi
```

Here is the output when the RemoteAccess service was started:

```
CRITICAL - [Triggered by _NumGood>0] - Found 1 Services(s), 1 OK and 0 with problems (0 excluded). 'Routing and Remote Access' (Remo
```

SNMP

Checking if a service is stopped using SNMP is not very straight forward, checking a process is the best solution here, please refer to the [Process Checks](#) KB article.

Multiple Services

Some methods support checking multiple services at once.

Nagios Plugins

The `check_init_service` plugin does not support checking multiple services.

NCPA

NCPA allows you to check multiple services, here is an example that checks for some services that are running and some that are stopped.

Service Name: Spooler (running)

Service Name: EventLog (running)

Service Name: RemoteAccess (stopped)

Command:

```
./check_ncpa.py -H 10.25.14.91 -t Str0ngT0k3n -M service -q service=Spooler,service=EventLog,status=running,service=RemoteAccess,sta
```

Output:

```
OK: Spooler is running, RemoteAccess is stopped, EventLog is running
```

NSClient++ via check_nt

NSClient++ allows you to check multiple services, here is an example that checks for two services that are running.

Service Name: Spooler (running)

Service Name: EventLog (running)

Command:

```
./check_nt -H 10.25.14.10 -p 12489 -s 'Str0ngP@ssw0rd' -v SERVICESTATE -l Spooler,EventLog -d SHOWALL
```

Output:

```
Spooler: Started, EventLog: Started
```

NSClient++ via check_nrpe

NSClient++ allows you to check multiple services, here is an example that checks for two services that are running.

Service Name: Spooler (running)

Service Name: EventLog (running)

Command:

```
./check_nrpe -H 10.25.14.10 -c check_service -a service=Spooler service=EventLog
```

Output:

```
OK: All 2 service(s) are ok.
```

WMI

Check WMI Plus allows you to check multiple services, here is an example that checks for two services that are running.

Service Name: Spooler (running)

Service Name: EventLog (running)

Command:

```
./check_wmi_plus.pl -H 10.25.14.3 -u wmiagent -p Str0ngP@ssw0rd -m checkservice -a 'Spooler|EventLog' -c _Total=1: -c 0
```

Output:

```
OK - Found 2 Services (s), 2 OK and 0 with problems (0 excluded). 'Windows Event Log' (eventlog) is Running, 'Print Spooler' (Spooler
```

SNMP

Checking a service using SNMP is not very straight forward, checking a process is the best solution here, please refer to the [Process Checks](#) KB article.

Final Thoughts

For any support related questions please visit the [Nagios Support Forums](#) at:

<http://support.nagios.com/forum/>

Posted by: **tlea** - Tue, Nov 14, 2017 at 12:02 AM. This article has been viewed 3884 times.

Online URL: <https://support.nagios.com/kb/article/service-checks-775.html>