

CPU Usage Checks

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CPU Usage Checks

The examples in this KB article focus on CPU usage. If you are interested in Load checks please refer to the [Load Checks](#) KB article.

The [CPU Used - Percentage](#) section of this KB article is the only one that contains check commands.

These sections provide information as to why these check methods are not possible and offer links to alternative methods.

- [CPU Free - Percentage](#)
- [CPU Free - Specific Value](#)
- [CPU Used - Specific Value](#)

CPU Free - Percentage

Nagios Plugins

Nagios Plugins does not include a CPU Usage check, please refer to the [Load Checks](#) KB article.

NCPA

NCPA includes a CPU module however it only reports percentage used, please see the [CPU Used - Percentage](#) section.

NSClient++ via check_nt

NSClient++ does not include a CPU Usage check, please refer to the [Load Checks](#) KB article.

NSClient++ via check_nrpe

NSClient++ does not include a CPU Usage check, please refer to the [Load Checks](#) KB article.

WMI

Check WMI Plus includes a CPU module however it only reports percentage used, please see the [CPU Used - Percentage](#) section.

SNMP

The `check_snmp_load_wizard.pl` plugin only reports percentage used, please see the [CPU Used - Percentage](#) section.

CPU Free - Specific Value

Nagios Plugins

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NCPA

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WMI

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SNMP

The `check_snmp_load_wizard.pl` plugin only reports percentage used, please see the [CPU Used - Percentage](#) section.

CPU Used - Percentage

These are CPU Usage checks based on percentages, they are best used when you want to be notified if the amount of used CPU exceeds a threshold.

Nagios Plugins

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NCPA

NCPA includes a CPU usage module. The thresholds are triggered if the used CPU is greater than the supplied value.

Unit: %

Warning: 90% Used

Critical: 95% Used

Command:

```
./check_ncpa.py -H 10.25.254.50 -t Str0ngT0k3n -M cpu/percent --warning 90 --critical 95
```

Output:

```
OK: Percent was 3.00 %, 1.00 %, 5.00 %, 2.00 %, 1.00 %, 1.00 %, 21.20 %, 2.00 % | 'percent_0'=3.00%;90;95; 'percent_1'=1.00%;90;95;
```

From the previous output you can see that this system has 8 CPU Cores. The `aggregate=avg` argument allows you to check the average percent over all cores.

Command:

```
./check_ncpa.py -H 10.25.254.50 -t Str0ngT0k3n -M cpu/percent -q aggregate=avg --warning 90 --critical 95
```

Output:

```
OK: Percent was 3.49 % | 'percent'=3.49%;90;95;
```

NSClient++ via check_nt

NSClient++ does not include a CPU Usage check, please refer to the [Load Checks](#) KB article.

NSClient++ via check_nrpe

NSClient++ does not include a CPU Usage check, please refer to the [Load Checks](#) KB article.

WMI

Check WMI Plus includes a CPU usage module. The thresholds are triggered if the used CPU is greater than the supplied value.

Unit: %

Warning: 90% Used

Critical: 95% Used

Command:

Command:

```
./check_wmi_plus.pl -H 10.25.14.3 -u wmiagent -p Str0ngP@ssw0rd -m checkcpu -w 90 -c 95
```

Output:

```
OK (Sample Period 300 sec) - Average CPU Utilisation 0.31%|'Avg CPU Utilisation'=0.31%;90;95;
```

SNMP

The `check_snmp_load_wizard.pl` plugin allows you to check CPU usage. The thresholds are triggered if the used CPU is greater than the supplied value.

Unit: %

Warning: 90% Used

Critical: 95% Free

Command:

```
./check_snmp_load_wizard.pl -H 10.25.13.15 -C public --v2c -w 80 -c 90 -f
```

Output:

```
1 CPU, load 1.0% < 80% : OK | cpu_prct_used=1%;80;90
```

CPU Used - Specific Value

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NCPA

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NSClient++ via check_nrpe

NSClient++ does not include a CPU Usage check, please refer to the [Load Checks](#) KB article.

WMI

Check WMI Plus includes a CPU module however it only reports percentage used, please see the [CPU Used - Percentage](#) section.

SNMP

The `check_snmp_load_wizard.pl` plugin only reports percentage used, please see the [CPU Used - Percentage](#) section.

Final Thoughts

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

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

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