

Process by name

Process by name probe returns information about process with the specified name and/or arguments.

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Example

Monitoring
✦

Agent

Probe type

Process

Arguments contain

Period

Field	Description
Process*	Process name to find. The value has to match strictly to the process name to be found, e.g. for "nodejs" value - "process name matches <i>nodejs</i> ".
Arguments contain*	Find processes with arguments, that contain specified value. E. g. for "Rest" value - "one of the arguments of the process contains <i>Rest</i> ".
Period	Describes how often toperform the check(60 secondsby default).
*	To setup this probe one of the field is enough. If the both fields are filled the logical operator "AND" is applied, e.g.: "process name matches <i>nodejs</i> AND one of the arguments of the found processes contains <i>Rest</i> ".

Result

After the check has been done the result is displayed in the data table:

Data
Table for field: -- Not selected --
Exact values
✦

name	processId	parentId	state	tty	nice	arguments.0	arguments.1	arguments.2	bytesVirtual	bytesResident	bytesShared	lastTime	startTime	userCpu
nodejs	29050	29022	S	0	0	/usr/bin/nodejs	/usr/local/saymon/server/actors/lib/forked-actor-worker.js	RestServerActor	1.3 G	191 M	9.22 M	07.12.2017, 11:07:03	30.11.2017, 16:04:00	20.3 M

Rows: 1

Field	Description
name	Name of the found process.
processId	Process ID number (PID).
parentId	ID number of the process's parent process (PPID).

state	<p>Process state code:</p> <ul style="list-style-type: none"> • D uninterruptible sleep (usually IO) • R running or runnable (on run queue) • S interruptible sleep (waiting for an event to complete) • T stopped, either by a job control signal or because it is being traced • W paging (not valid since the 2.6.xx kernel) • X dead (should never be seen) - the process is about to be destroyed • Z defunct ("zombie") process, terminated but not reaped by its parent • < high-priority (not nice to other users) • N low-priority (nice to other users) • L has pages locked into memory (for real-time and custom IO) • s is a session leader • I is multi-threaded (using CLONE_THREAD, like NPTL pthreads do) • + is in the foreground process group
tty	Terminal associated with the process.
nice	Nice value. This ranges from 19 (nicest) to -20 (not nice to others).
arguments.xxx	Arguments of the process, if any.
bytesVirtual	Total process virtual memory (virtual memory usage).
bytesResident	Total process resident memory.
bytesShared	Total process shared memory.
lastTime	Time when the process ran on a cpu and did something.
startTime	Time when the process started.
userCpu	Process cpu user time.
systemCpu	Process cpu kernel time.
totalCpu	Process cpu time (sum of userCpu and systemCpu).
percentCpu	How much of the CPU the process is using (or "process cpu usage").

Raws is an additional field in which the array length is indicated.

Total number of rows is displayed when the array value is the result of the probe or the input data.

Terminal counterpart

This check is the counterpart of ps terminal command:

```
ps aux | head -1 ; sudo ps aux | grep 'nodejs.*Rest' | grep -v grep

USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
saymon    29050  3.7  4.7 1359092 194040 ?        Sl    Nov30  363:39 /usr/bin
/nodejs /usr/local/saymon/server/actors/lib/forked-actor-worker.js
RestServerActor
```

Known problems and errors

At the time of writing this article, no such errors were found.