

roscnode

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Documentation Status

[ros_comm](#): [message_filters](#) | [ros](#) | [roscnode](#) | [roscnode_console](#) | [roscnode_cpp](#) | [roscnode_graph](#) | [roscnode_graph_msgs](#) | [roscnode_launch](#) | [roscnode_lisp](#) | [roscnode_master](#) | [roscnode_msgs](#) | [roscnode_out](#) | [roscnode_param](#) | [roscnode_psp](#) | [roscnode_service](#) | [roscnode_test](#) | [roscnode_topic](#) | [roscnode_ttf](#) | [std_srvs](#) | [topic_tools](#) | [xmlrpcpp](#)

Package Summary

✓ Released Continuous Integration: 1371 / 1372 ✓ Documented

roscnode is a command-line tool for displaying debug information about ROS [Nodes](#), including publications, subscriptions and connections. It also contains an experimental library for retrieving node information. This library is intended for internal use only.

- Maintainer status: maintained
- Maintainer: Dirk Thomas <dtthomas AT osrfoundation DOT org>
- Author: Ken Conley
- License: BSD
- Source: git https://github.com/ros/ros_comm.git (branch: melodic-devel)

Contents

- roscnode command-line tool
 - roscnode info
 - roscnode kill
 - roscnode list
 - roscnode machine
 - roscnode ping
 - roscnode cleanup
- Roadmap

Package Links

[Code API](#)[Tutorials](#)[Troubleshooting](#)[FAQ](#)[Changelog](#)[Change List](#)[Reviews](#)[Dependencies](#) (4)[Used by](#) (10)[Jenkins jobs](#) (10)

Wiki

[Distributions](#)[ROS/Installation](#)[ROS/Tutorials](#)[RecentChanges](#)[roscnode](#)

Page

[Immutable Page](#)[Info](#)[Attachments](#)[More Actions:](#)

User

[Login](#)

1. roscnode command-line tool

The roscnode command-line tool displays information about ROS [Nodes](#). The currently supported commands are:

```
roscnode info  print information about node
roscnode kill  kill a running node
roscnode list  list active nodes
roscnode machine list nodes running on a particular machine or list machines
roscnode ping  test connectivity to node
roscnode cleanup purge registration information of unreachable nodes
```

1.1 roscnode info

info <node-name>

Display information about a node, including publications and subscriptions.

```
$ roscnode info /node_name
```

1.2 roscnode kill

IMPORTANT: roscnode kill is not guaranteed to succeed. If a node is hung or set to "respawn" in [roscnode_launch](#), it may either fail to die or may quickly reappear.

kill <node-name>...

Kill one or more nodes by name.

```
$ roscnode kill roscnode add_two_ints_server
```

kill

Interactive mode. This enables you to select which node to kill from a numbered list, which is useful for killing anonymous nodes.

```
$ roscnode kill
1. /roscnode
```

Please enter the number of the node you wish to kill.

```
>
```

kill -a, kill --all

Kill all nodes.

1.3 rosnode list

list

Display a list of current nodes.

```
$ rosnode list
```

list <namespace>

Display a list of current nodes inside /namespace.

```
$ rosnode list /my_ns
```

list -u

List XML-RPC URIs of current nodes.

```
$ rosnode list -u
```

list -a, list --all

List name and XML-RPC URIs (all info) of current nodes.

```
$ rosnode list -a
```

1.4 rosnode machine

machine <machine-name>

List nodes running on a particular machine.

```
$ rosnode machine ninja.local
/talker-ninja.local-72266-1257921234733
/rosout
/listener-ninja.local-72615-1257921238320
```

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machine

List all machines

1.5 rosnode ping

ping <node-name>

Ping a node repeatedly.

```
$ rosnode ping /node_name
```

ping --all

Ping all nodes. This option cannot be used with -c.

```
$ rosnode ping --all
```

ROS 0.11: -a may also be used.

ping -c COUNT

Ping a node COUNT times. This option cannot be used with --all.

```
$ rosnode ping -c 4 rosout
roscpp: node is [/rosout]
pinging /rosout with a timeout of 3.0s
xmlrpc reply from http://ann:46635/   time=1.195908ms
xmlrpc reply from http://ann:46635/   time=1.123905ms
xmlrpc reply from http://ann:46635/   time=1.144886ms
xmlrpc reply from http://ann:46635/   time=1.137018ms
ping average: 1.150429ms
```

1.6 rosnode cleanup

IMPORTANT: rosnode cleanup was meant as a temporary solution and its use was not encouraged in normal operation. Its benefit is aesthetic and it has the downside of potentially unregistering functioning nodes. [Relevant discussion](#).

cleanup

Purge the registration of any node that cannot be contacted immediately. Prints list of unreachable nodes which has to be confirmed.

```
$ rosnode cleanup
```

2. Roadmap

roscpp is a stable command-line tool within the ROS core toolchain. No major feature development is currently scheduled for this tool.