

NMIS9 - Bulk Export and Import nodes from CLI and others Admin Options

This article's purpose of helping export/import bulk nodes and know how to show, create, delete, rename, dump, restore, make templates, and clean node events in a simple way to learn the CLI commands.

What this command can do:

```
sudo /usr/local/nmis9/admin/node_admin.pl -h
```

```
[root@omk-vm9-centos7 admin]# sudo /usr/local/nmis9/admin/node_admin.pl -h
Invalid command argument "-h"
Usage: node_admin.pl act=[action to take] [extras...]

node_admin.pl act={list|list_uuid} {node=nodeX|uuid=nodeUUID} [group=Y]
node_admin.pl act=show {node=nodeX|uuid=nodeUUID}
node_admin.pl act={create|update} file=someFile.json [server={server_name|cluster_id}]
node_admin.pl act=export [format=nodes] [file=path] {node=nodeX|uuid=nodeUUID|group=groupY} [keep_ids=0/1]
node_admin.pl act=import file=somefile.json
node_admin.pl act=import_bulk {nodes=filepath|nodeconf=dirpath} [nmis9_format=1]
node_admin.pl act=delete {node=nodeX|group=groupY|uuid=nodeUUID} [server={server_name|cluster_id}]
node_admin.pl act=dump {node=nodeX|uuid=nodeUUID} file=path [everything=0/1]
node_admin.pl act=restore file=path [localise_ids=0/1]

node_admin.pl act=set {node=nodeX|uuid=nodeUUID} entry.X=Y... [server={server_name|cluster_id}]
node_admin.pl act=mktemplate [placeholder=1/0]
node_admin.pl act=rename {old=nodeX|uuid=nodeUUID} new=nodeY [entry.A=B...]
node_admin.pl act=move-nmis8-rrd-files {node=nodeX|ALL|uuid=nodeUUID} [remove_old=1] [force=1]
node_admin.pl act=clean-node-events {node=nodeX|uuid=nodeUUID}

mktemplate: prints blank template for node creation,
optionally with __REPLACE_XX__ placeholder

create: requires file=NewNodeDef.json
update: updates existing node from file=someFile.json
If no uuid is present, a new node will be created.
If a property is not set, it will be removed.
Use set to replace only one property.

export: exports to file=someFile (or STDOUT if no file given),
nmis9 format by default or legacy format (nmis8) if format=nodes is given
perl hash if format=nodes and file=*.nmis (nmis extension), otherwise json
uuid and cluster_id are NOT exported unless keep_ids is 1.

import-bulk: By default, will import nmis8 format nodes

delete: only deletes if confirm=yes (in uppercase) is given,
if deletedata=true (default) then RRD files for a node are
also deleted.

show: prints a node's properties in the same format as set
with option quoted=true, show adds double-quotes where needed
with option interfaces=true show interface basic information
with option inventory=true dumps all the inventory data
with option catchall=true dumps just the inventory catchall data

set: adjust one or more node properties

restore: restores a previously dumped node's data. if
localise_ids=true (default: false), then the cluster id is rewritten
to match the local nmis installation.

extras: debug={1..9,verbose} sets debugging verbosity
extras: info=1 sets general verbosity
```

Show all nodes name on the NMIS:

```
sudo /usr/local/nmis9/admin/node_admin.pl act=list
```

```

[root@omk-vm9-centos7 admin]#
[root@omk-vm9-centos7 admin]#
[root@omk-vm9-centos7 admin]# sudo /usr/local/nmis9/admin/node_admin.pl act=list
Node Names:
=====
Amazon
Gladston-R-MacPro2019
Levoit-Humidifier
Printer
RoadToMadness
RokuStreamingStick
global
[root@omk-vm9-centos7 admin]# █

```

Show all nodes name and Id on the NMIS:

```
sudo /usr/local/nmis9/admin/node_admin.pl act=list_uuid
```

```

[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=list_uuid
Node UUID      Node Name
=====
ae8d7ea0-a211-4841-9d99-dbc30f68359d    Amazon
0f12b311-38d9-4088-8207-5e57f9da90d6    Gladston-R-MacPro2019
c3f59f20-760c-439e-8980-ac76120edcf2    Levoit-Humidifier
3c173905-aae1-4c84-bc1e-b4cb41a23a9d    Printer
fdc8b08c-8dc4-4934-ade0-14778c804b9f    RoadToMadness
3c3f15a5-aeaa-4f94-b949-c7ee2626578b    RokuStreamingStick
f5804482-46eb-4ae9-bc38-f7e23aef3ce5    global
[root@omk-vm9-centos7 tmp]#

```

Show the node headers on the NMIS: You can use this information to put on import node csv header.

```
sudo /usr/local/nmis9/admin/node_admin.pl act=show node=Printer
```

```
[root@omk-vm9-centos7 admin]#
[root@omk-vm9-centos7 admin]# sudo /usr/local/nmis9/admin/node_admin.pl act=show node=Printer
entry.activated.NMIS=1
entry.activated.opConfig=0
entry.activated.opEvents=1
entry.cluster_id=7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f
entry.configuration.active=1
entry.configuration.authkey=
entry.configuration.authpassword=
entry.configuration.authprotocol=md5
entry.configuration.businessService=
entry.configuration.cbqos=none
entry.configuration.collect=1
entry.configuration.community=nmisGig8
entry.configuration.context=
entry.configuration.customer=Opmantek
entry.configuration.display_name=Printer
entry.configuration.group=NMIS9
entry.configuration.host=192.168.0.50
entry.configuration.host_backup=
entry.configuration.ip_protocol=IPv4
entry.configuration.location=Default Location
entry.configuration.max_msg_size=1472
entry.configuration.max_repetitions=0
entry.configuration.model=Cisco-Gladston-auto
entry.configuration.netType=default
entry.configuration.node_context_name=Node Context
entry.configuration.node_context_url=https://somelink.com/map/thing/
entry.configuration.notes=
entry.configuration.ping=1
entry.configuration.polling_policy=default
entry.configuration.port=161
entry.configuration.privkey=
entry.configuration.privpassword=
entry.configuration.privprotocol=des
entry.configuration.remote_connection_name=SSH to Node
entry.configuration.remote_connection_url=ssh://$host
entry.configuration.roleType=default
entry.configuration.serviceStatus=Development
entry.configuration.sysDescr=Brother NC-8800w, Firmware Ver.U ,MID 8C5-K3JFID 2
entry.configuration.systemStatus=
entry.configuration.threshold=1
entry.configuration.timezone=0
entry.configuration.username=
entry.configuration.version=snmpv2c
entry.configuration.webserver=0
entry.configuration.wmidomain=
entry.configuration.wmipassword=
entry.configuration.wmiusername=
entry.configuration.wmiVersion=Version 2
entry.name=Printer
entry.uuid=3c173905-aae1-4c84-bc1e-b4cb41a23a9d
[root@omk-vm9-centos7 admin]#
```

Bulk Export all nodes on the NMIS to a file: add keep_ids=1 to export the uuid, cluster and poller.

```
sudo /usr/local/nmis9/admin/node_admin.pl act=export file="/tmp
/Nodes_export_keep_id.nmis" keep_ids=1
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=export file="/tmp/Nodes_export_keep_id.nmis" keep_ids=1
Successfully exported node configuration to file /tmp/Nodes_export_keep_id.nmis
[root@omk-vm9-centos7 tmp]#
```

You can check cluster id, uuid, poller and node name:

```
grep -E "display_name|id|poller" Nodes_export_keep_id.nmis
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# grep -E "display_name|id|poller" Nodes_export_keep_id.nmis
  "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
    "display_name" : "RoadToMadness",
    "wmidomain" : "",
    "overrides" : {
      "uuid" : "fdc8b08c-8dc4-4934-ade0-14778c804b9f"
    "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "display_name" : "Printer",
      "wmidomain" : "",
      "overrides" : {},
      "uuid" : "3c173905-aae1-4c84-bc1e-b4cb41a23a9d"
    "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "display_name" : "global",
      "overrides" : {},
      "uuid" : "f5804482-46eb-4ae9-bc38-f7e23aef3ce5"
    "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "display_name" : "Amazon",
      "pollers" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "wmidomain" : "",
      "overrides" : {},
      "uuid" : "ae8d7ea0-a211-4841-9d99-dbc30f68359d"
    "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "display_name" : "RokuStreamingStick",
      "pollers" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "wmidomain" : "",
      "overrides" : {},
      "uuid" : "3c3f15a5-aeaa-4f94-b949-c7ee2626578b"
    "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "display_name" : "Levoit-Humidifier",
      "pollers" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "wmidomain" : "",
      "name" : "Levoit-Humidifier",
      "overrides" : {},
      "uuid" : "c3f59f20-760c-439e-8980-ac76120edcf2"
    "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "display_name" : "Gladston-R-MacPro2019",
      "pollers" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
      "wmidomain" : "",
      "overrides" : {},
      "uuid" : "0f12b311-38d9-4088-8207-5e57f9da90d6"
[root@omk-vm9-centos7 tmp]#
```

You can check the only nodes name:

```
grep -E "display_name" Nodes_export_keep_id.nmis
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# grep -E "display_name" Nodes_export_keep_id.nmis
  "display_name" : "RoadToMadness",
  "display_name" : "Printer",
  "display_name" : "global",
  "display_name" : "Amazon",
  "display_name" : "RokuStreamingStick",
  "display_name" : "Levoit-Humidifier",
  "display_name" : "Gladston-R-MacPro2019",
[root@omk-vm9-centos7 tmp]#
```

Bulk import all nodes on the NMIS from a file:

```
sudo /usr/local/nmis9/admin/node_admin.pl act=import_bulk nodes="/tmp
/Nodes_export_keep_id.nmis" nmis9_format=1
```

```
[omkadmin@omk-vm9-centos7 ~]$
[omkadmin@omk-vm9-centos7 ~]$
[omkadmin@omk-vm9-centos7 ~]$ sudo /usr/local/nmis9/admin/node_admin.pl act=import_bulk nodes="/tmp/Nodes_export_keep_id.nmis" nmis9_format=1
```

OBSERVATION: If you are bulk import for a NMIS9, you will need to add the parameter `nmis9_format=1`. If you forgot it, it will through an error.

```
Error saving node Printer: node 'Printer' requires host property
Error saving node Win2022: node 'Win2022' requires host property
Error saving node Win2012: node 'Win2012' requires host property
```

Bulk import all nodes from the CSV file:

This way will enable activation on NMIS:

The best way to import from NMIS8 to NMIS9 is to create a CSV file and then copy it to NMIS9 Administration GUI ==> Add node

From your NMIS8

```
/usr/local/nmis8/admin
```

```
sudo ./export_nodes.pl nodes=/tmp/node_export_location2.csv
```

```
[omkadmin@omk-vm8-centos7 admin]$
[omkadmin@omk-vm8-centos7 admin]$
[omkadmin@omk-vm8-centos7 admin]$ ./export_nodes.pl nodes=/tmp/node_export_location2.csv
0.00 Begin
0.01 Begin
[omkadmin@omk-vm8-centos7 admin]$
```

<https://community.opmantek.com/display/opCommon/Importing+Nodes+with+Admin+GUI>

```
sudo ./import_nodes.pl csv=/usr/local/nmis9/admin/node.csv verbose=1 simulate=f
```

```
[root@omk-vm9-centos7 admin]#
[root@omk-vm9-centos7 admin]#
[root@omk-vm9-centos7 admin]# sudo ./import_nodes.pl csv=/usr/local/nmis9/admin/nmis8_export3.csv verbose=1 simulate=f
ERROR: ./import_nodes.pl in csv.pm: Invalid CSV data file /usr/local/nmis9/admin/nmis8_export3.csv; line 2: record "amazon"; 18 elements in header; 15 elements in data.
ERROR: ./import_nodes.pl in csv.pm: Invalid CSV data file /usr/local/nmis9/admin/nmis8_export3.csv; line 3: record "gladston-r-macpro2019"; 18 elements in header; 15 elements in data.
ERROR: ./import_nodes.pl in csv.pm: Invalid CSV data file /usr/local/nmis9/admin/nmis8_export3.csv; line 4: record "levoit-humidifier"; 18 elements in header; 15 elements in data.
ERROR: ./import_nodes.pl in csv.pm: Invalid CSV data file /usr/local/nmis9/admin/nmis8_export3.csv; line 6: record "rokustreamingstick"; 18 elements in header; 15 elements in data.
ERROR: ./import_nodes.pl in csv.pm: Invalid CSV data file /usr/local/nmis9/admin/nmis8_export3.csv; line 8: record "omk-vm9-centos7"; 18 elements in header; 15 elements in data.

ADDING: node=Levoit-Humidifier host=192.168.0.69 group=Branches
=> Successfully created node levoit-humidifier.
ADDING: node=RokuStreamingStick host=192.168.0.64 group=Branches
=> Successfully created node rokustreamingstick.
ADDING: node=omk-vm9-centos7 host=192.168.0.85 group=Branches
=> Successfully created node omk-vm9-centos7.
ADDING: node=Printer host=192.168.0.50 group=Branches
=> Successfully created node printer.
ADDING: node=Gladston-R-MacPro2019 host=192.168.0.78 group=Branches
=> Successfully created node gladston-r-macpro2019.
ADDING: node=Amazon host=192.168.0.40 group=Branches
=> Successfully created node amazon.
ADDING: node=localhost host=127.0.0.1 group=NMIS8
=> Successfully created node localhost.

7 nodes processed
7 nodes added
0 nodes updated
0 nodes with error
[root@omk-vm9-centos7 admin]#
```

```
sudo ./import_nodes.pl csv=/usr/local/nmis9/admin/node.csv
```

```

[omkadmin@omk-vm9-centos7 admin]$
[omkadmin@omk-vm9-centos7 admin]$
[omkadmin@omk-vm9-centos7 admin]$ ./import_nodes.pl
Usage: import_nodes.pl csv=[csv file path] [extras...]

import_nodes.pl will import nodes to NMIS.
ERROR: need some files to work with
usage: import_nodes.pl csv=csv file simulate=t/f
eg: import_nodes.pl csv=/usr/local/nmis9/admin/import_nodes_sample.csv

simulate=t [t by default] will show a report with the list of
verbose=1|0 [1 by default] 0 will suppress verbose output
nodes to update/create

The sample CSV looks like this:
--sample--
name,host,group,roleType,community,netType,activated.NMIS,activated.opConfig
import_test1,127.0.0.1,Branches,core,nmisGig8,1,1
import_test2,127.0.0.1,Sales,core,nmisGig8,lan,1,1
import_test3,127.0.0.1,DataCenter,core,nmisGig8,lan,1,1
--sample--

[omkadmin@omk-vm9-centos7 admin]$ ./import_nodes.pl csv=/usr/local/nmis9/admin/node.csv
2 nodes processed
2 nodes added
0 nodes updated
0 nodes with error
[omkadmin@omk-vm9-centos7 admin]$

```

Copy a node info to a zip file: This only works for a single node.

```

sudo /usr/local/nmis9/admin/node_admin.pl act=dump node="RokuStreamingStick"
everything=1 file="/tmp/RokuStreamingStick-dump.zip"

```

```

[root@omk-vm9-centos7 tmp]$
[root@omk-vm9-centos7 tmp]$ sudo /usr/local/nmis9/admin/node_admin.pl act=dump node="RokuStreamingStick" everything=1 file="/tmp/RokuStreamingStick-dump.zip"
Successfully dumped node data to file /tmp/RokuStreamingStick-dump.zip
[root@omk-vm9-centos7 tmp]$

```

See the node info from zip file:

```

unzip RokuStreamingStick-dump.zip

```

```

[root@omk-vm9-centos7 tmp]$ unzip RokuStreamingStick-dump.zip
Archive: RokuStreamingStick-dump.zip
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/events/631aa33ab4e05ff907c5789e.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/events/631aa2c3b4e05ff907c56c0a.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/inventory/631aa2b7b4e05ff907c56b25.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/inventory/632d17d7cb895fb916d36855.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/latest_data/631aa2c3b4e05ff907c56c1a.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/latest_data/632d17d7cb895fb916d3685a.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/nodes/631aa2b4b89b8e07723e9301.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/opstatus/633afa255e995d4d9778cf12.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/opstatus/633afa2586f9014b8878cf12.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/opstatus/633afa37fb5e1ee51a78cf15.json
  inflating: 3c3f15a5-aeaa-4f94-b949-c7ee2626578b/rrd/nodes/RokuStreamingStick/health/reach.rrd
[root@omk-vm9-centos7 tmp]$

```

Delete a node: This only works for a single node.

```
sudo /usr/local/nmis9/admin/node_admin.pl act=delete node="RokuStreamingStick"
confirm=YES deletedata=1
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=delete node="RokuStreamingStick" confirm=YES deletedata=1
Successfully deleted node RokuStreamingStick .
[root@omk-vm9-centos7 tmp]#
```

Restore a node that was delete: This only works for a single node.

```
sudo /usr/local/nmis9/admin/node_admin.pl act=restore file=RokuStreamingStick-
dump.zip localise_ids=1
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=restore file=RokuStreamingStick-dump.zip localise_ids=1
Successfully restored node RokuStreamingStick (3c3f15a5-aeaa-4f94-b949-c7ee2626578b)
[root@omk-vm9-centos7 tmp]#
```

This is an example of Delete a node and restore:

```
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=list
Node Names:
=====
Amazon
Gladston-R-MacPro2019
Levoit-Humidifier
Printer
RoadToMadness
RokuStreamingStick
global
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=delete node="RokuStreamingStick" confirm=YES deletedata=1
Successfully deleted node RokuStreamingStick .
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=list
Node Names:
=====
Amazon
Gladston-R-MacPro2019
Levoit-Humidifier
Printer
RoadToMadness
global
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=restore file=RokuStreamingStick-dump.zip localise_ids=1
Successfully restored node RokuStreamingStick (3c3f15a5-aeaa-4f94-b949-c7ee2626578b)
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=list
Node Names:
=====
Amazon
Gladston-R-MacPro2019
Levoit-Humidifier
Printer
RoadToMadness
RokuStreamingStick
global
[root@omk-vm9-centos7 tmp]#
```

Rename a node: This only works for a single node.

```
sudo /usr/local/nmis9/admin/node_admin.pl act=rename old=RokuStreamingStick
new=Roku_stick
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=rename old=RokuStreamingStick new=Roku_stick
Successfully renamed node RokuStreamingStick to Roku_stick.
[root@omk-vm9-centos7 tmp]# █
```

On this example you can see the new node Roku_stick:

```
sudo /usr/local/nmis9/admin/node_admin.pl act=list_uuid
```

```
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=list_uuid
Node UUID      Node Name
=====
ae8d7ea0-a211-4841-9d99-dbc30f68359d    Amazon
0f12b311-38d9-4088-8207-5e57f9da90d6    Gladston-R-MacPro2019
c3f59f20-760c-439e-8980-ac76120edcf2    Levoit-Humidifier
3c173905-aae1-4c84-bc1e-b4cb41a23a9d    Printer
fdc8b08c-8dc4-4934-ade0-14778c804b9f    RoadToMadness
3c3f15a5-aeaa-4f94-b949-c7ee2626578b    Roku_stick
f5804482-46eb-4ae9-bc38-f7e23aef3ce5    global
[root@omk-vm9-centos7 tmp]#
```

Create a template node: This only works for a single node.

```
sudo /usr/local/nmis9/admin/node_admin.pl act=mktemplate placeholder=1 file="/tmp/template.json"
```

```
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=mktemplate placeholder=1 file="/tmp/template.json"
Created minimal template in file /tmp/template.json.
Please see https://community.opmantek.com/display/opCommon/Common+Node+Properties for detailed descriptions of the properties.
[root@omk-vm9-centos7 tmp]#
```

You can see the template node:

```
cat template.json
```



```
[root@omk-vm9-centos7 tmp]# cat template.json
{
  "activated" : {
    "NMIS" : "__REPLACE_ACTIVATED.NMIS__"
  },
  "cluster_id" : "__REPLACE_CLUSTER_ID__",
  "configuration" : {
    "authkey" : "__REPLACE_CONFIGURATION.AUTHKEY__",
    "authpassword" : "__REPLACE_CONFIGURATION.AUTHPASSWORD__",
    "authprotocol" : "__REPLACE_CONFIGURATION.AUTHPROTOCOL__",
    "collect" : "__REPLACE_CONFIGURATION.COLLECT__",
    "community" : "__REPLACE_CONFIGURATION.COMMUNITY__",
    "group" : "__REPLACE_CONFIGURATION.GROUP__",
    "host" : "__REPLACE_CONFIGURATION.HOST__",
    "location" : "__REPLACE_CONFIGURATION.LOCATION__",
    "model" : "__REPLACE_CONFIGURATION.MODEL__",
    "netType" : "__REPLACE_CONFIGURATION.NETTYPE__",
    "notes" : "__REPLACE_CONFIGURATION.NOTES__",
    "ping" : "__REPLACE_CONFIGURATION.PING__",
    "port" : "__REPLACE_CONFIGURATION.PORT__",
    "privkey" : "__REPLACE_CONFIGURATION.PRIVKEY__",
    "privpassword" : "__REPLACE_CONFIGURATION.PRIVPASSWORD__",
    "privprotocol" : "__REPLACE_CONFIGURATION.PRIVPROTOCOL__",
    "roleType" : "__REPLACE_CONFIGURATION.ROLETYPE__",
    "threshold" : "__REPLACE_CONFIGURATION.THRESHOLD__",
    "username" : "__REPLACE_CONFIGURATION.USERNAME__",
    "version" : "__REPLACE_CONFIGURATION.VERSION__"
  },
  "name" : "__REPLACE_NAME__",
  "uuid" : "__REPLACE_UUID__"
}
[root@omk-vm9-centos7 tmp]#
```

Make a copy of the template to create a new node:

```
cp template.json my_new_paradise.json
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# cp template.json my_new_paradise.json
```

Fill out the information replacing the template node (See example below):

```
vim my_new_paradise.json
```

```
{
  "activated" : {
    "NMIS":1
  },
  "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
  "configuration" : {
    "authkey" : "",
    "authpassword" : "",
    "authprotocol" : "md5",
    "collect" : 1,
    "community" : "nmisGig8",
    "group" : "NMIS9",
    "host" : "192.168.0.95",
    "location" : "Default Location",
    "model" : "automatic",
    "netType" : "default",
    "notes" : "",
    "ping" : 1,
    "port" : 161,
    "privkey" : "",
    "privpassword" : "",
    "privprotocol" : "des",
    "roleType" : "default",
    "threshold" : 1,
    "username" : "",
    "version" : "snmpv2c"
  },
  "name" : "My_new_paradise",
  "uuid" : ""
}
```

```
~
~
~
~
~
-- INSERT --
```

```
{
  "activated" : {
    "NMIS": 1
  },
  "cluster_id" : "7c1084fe-5f66-4b3b-8a3b-6e58cc8aff4f",
  "configuration" : {
    "authkey" : "",
    "authpassword" : "",
    "authprotocol" : "md5",
    "collect" : 1,
    "community" : "nmisGig8",
    "group" : "NMIS9",
    "host" : "192.168.0.95",
    "location" : "Default Location",
    "model" : "automatic",
    "netType" : "default",
    "notes" : "",
    "ping" : 1,
    "port" : 161,
    "privkey" : "",
    "privpassword" : "",
    "privprotocol" : "des",
    "roleType" : "default",
    "threshold" : 1,
    "username" : "",
    "version" : "snmpv2c"
  },
  "name" : "My_new_paradise",
  "uuid" : ""
}
```

Create a new node based on the modified template: remember that the node name is inside the file. In this example My_new_paradise

```
sudo /usr/local/nmis9/admin/node_admin.pl act=create file="/tmp/my_new_paradise.json"
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=create file="/tmp/my_new_paradise.json"
Successfully created node 95bc5b15-afbb-4ea0-a899-5e7026a56d4d (My_new_paradise)
[root@omk-vm9-centos7 tmp]#
```

You can see the new node created:

```
sudo /usr/local/nmis9/admin/node_admin.pl act=list_uuid
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=list_uuid
Node UUID          Node Name
=====
ae8d7ea0-a211-4841-9d99-dbc30f68359d    Amazon
0f12b311-38d9-4088-8207-5e57f9da90d6    Gladston-R-MacPro2019
c3f59f20-760c-439e-8980-ac76120edcf2    Levoit-Humidifier
95bc5b15-afbb-4ea0-a899-5e7026a56d4d    My_new_paradise
3c173905-aae1-4c84-bc1e-b4cb41a23a9d    Printer
fdc8b08c-8dc4-4934-ade0-14778c804b9f    RoadToMadness
3c3f15a5-aeaa-4f94-b949-c7ee2626578b    Roku_stick
f5804482-46eb-4ae9-bc38-f7e23aef3ce5    global
[root@omk-vm9-centos7 tmp]#
```

Clear the node events: This only works for a single node. You can clear by node name or by ID.

```
sudo /usr/local/nmis9/admin/node_admin.pl act=clean-node-events
node=My_new_paradise
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=clean-node-events node=My_new_paradise
My_new_paradise events cleaned
[root@omk-vm9-centos7 tmp]# █
```

```
sudo /usr/local/nmis9/admin/node_admin.pl act=clean-node-events uuid=95bc5b15-afbb-4ea0-a899-5e7026a56d4d
```

```
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]#
[root@omk-vm9-centos7 tmp]# sudo /usr/local/nmis9/admin/node_admin.pl act=clean-node-events uuid=95bc5b15-afbb-4ea0-a899-5e7026a56d4d
My_new_paradise events cleaned
[root@omk-vm9-centos7 tmp]#
```