

Network Management and Monitoring

Cacti command line tools

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Notes:

- * Commands preceded with "\$" imply that you should execute the command as a general user - not as root.
- * Commands preceded with "#" imply that you should be working as root.
- * Commands with more specific command lines (e.g. "RTR-GW>" or "mysql>") imply that you are executing commands on remote equipment, or within another program.

3. Add graph items to the tree

The last step is to add these graphs to the Graph Tree.

Check the possible options for this command:

```
$ sudo ./add_tree.php | less
```

Note the following options:

```
--type=[tree|node]  
--node-type=[header|host|graph]  
--tree-id=[ID]
```

First, let's use the `add_tree.php` command to see if we have any trees created in our Cacti installation:

```
$ sudo ./add_tree.php --list-trees
```

Known Trees:

id	sort method	name
1	Manual Ordering (No Sorting)	Default Tree

In the above example, we have one tree: Default.

If you need to create a new tree, save some typing and create it directly in the Web UI, then run the `--list-trees` command again:

```
$ sudo ./add_tree.php --list-trees
```

Known Trees:

id	sort method	name
----	-------------	------

- 1 Manual Ordering (No Sorting) Default Tree
- 2 Manual Ordering (No Sorting) NETMGMT routers

Note: We could have created the tree using add_tree.php. How ?

Let's add all graphs for our device id 2 from earlier - we know that the device id is 2, the tree id is 2, we want to add a Graph node (not a subtree), and we want all graphs for the device (type = node), not just a single graph from that device.

The final command:

```
$ sudo ./add_tree.php --host-id=2 --tree-id=2 --node-type=host --type=node
```

Added Node node-id: (8)

Done! Check with the Web UI that the Graphs for the device have been placed in the tree.

* Additional commands

If you want to add interfaces that are 'Up' instead of just interfaces that are "ethernet", replace "ifType" with "ifOperStatus" for --snmp-field, and replace --snmp-value=6 with --snmp-value=Up.

Example to add all OperUp interfaces:

```
./add_graphs.php --host-id=7 --graph-type=ds --graph-template-id=2  
--snmp-query-id=1 --snmp-query-type-id=14 --snmp-field=ifOperStatus \  
--snmp-value=Up
```

* Summary and more sample commands

```
$ sudo ./add_graphs.php --list-hosts  
# choose your host ID from the list
```

```
$ sudo ./add_graphs.php --list-graph-templates  
# 2 = Interface - Traffic (bits/sec)
```

```
$ sudo ./add_graphs.php --list-snmp-queries  
# 1 = SNMP - Interface Statistics
```

```
$ sudo ./add_graphs.php --list-query-types --snmp-query-id=1  
# 14 = In/Out Bits (64-bit Counters)
```

```
$ sudo ./add_graphs.php --list-snmp-fields --host-id=2 --snmp-query-id=1  
# list includes ifType
```

```
### Add all ifs of type ethernetCsmacd (type 6) ###
```

```
$ sudo ./add_graphs.php --list-snmp-values --host-id=2 --snmp-query-id=1 \  
--snmp-field=ifType
```

```
# Known values for ifType for host 2: (name)
```

```
# ethernetCsmacd(6)
```

```
# other(1)
```

```
$ sudo ./add_graphs.php --host-id=2 --graph-type=ds --graph-template-id=2 \  
--snmp-query-id=1 --snmp-query-type-id=14 --snmp-field=ifType --snmp-  
value=6
```

or

```
### Add all OperUp ifs: ###
```

```
$ sudo ./add_graphs.php --list-snmp-values --host-id=2 --snmp-query-id=1 \  
--snmp-field=ifOperStatus
```

```
# Known values for ifOperStatus for host 2: (name)
```

```
# Down
```

```
# Up
```

```
$ sudo ./add_graphs.php --host-id=2 --graph-type=ds --graph-template-id=2 \  
--snmp-query-id=1 --snmp-query-type-id=14 --snmp-field=ifOperStatus \  
--snmp-value=Up
```