

1. Adding device

```
$ sudo ./add_device.php
```

```
[...]
```

```
$ sudo ./add_device.php --list-host-templates
```

```
Valid Host Templates: (id, name)
```

```
0      None
1      Generic SNMP-enabled Host
3      ucd/net SNMP Host
4      Karlnet Wireless Bridge
5      Cisco Router
6      Netware 4/5 Server
7      Windows 2000/XP Host
8      Local Linux Machine
```

```
$ sudo ./add_device.php --description="rtr7.ws.nsrc.org" --ip=10.10.7.254 --template=5 --avail=snmp --version=2 --community=NetManage
```

```
Adding rtr7.ws.nsrc.org (10.10.7.254) as "Cisco Router" using SNMP v2 with community "NetManage"
```

```
Success - new device-id: (2)
```

```
$ for router in 1 2 3 4 5 6
```

```
> do
```

```
> sudo ./add_device.php --description="rtr${router}.ws.nsrc.org" --ip=10.10.${router}.254 --template=5 --avail=snmp --version=2 --community=NetManage
```

```
> done
```

2. Adding graphs

```
$ sudo ./add_graphs.php
```

```
[...]
```

```
List Options:
```

```
--list-hosts
--list-graph-templates [--host-template-id=[ID]]
--list-input-fields --graph-template-id=[ID]
--list-snmp-queries
--list-query-types --snmp-query-id [ID]
--list-snmp-fields --host-id=[ID] [--snmp-query-id=[ID]]
--list-snmp-values --host-id=[ID] [--snmp-query-id=[ID]] --snmp-field=[Field]
```

```
'cg' graphs are for things like CPU temp/fan speed, while
```

```
'ds' graphs are for data-source based graphs (interface stats etc.)
```

```
$ sudo ./add_graphs.php --list-hosts
```

```
Known Hosts: (id, hostname, template, description)
```

```
1      127.0.0.1      8      Localhost
2      10.10.7.254    5      rtr7.ws.nsrc.org
```

```
$ sudo ./add_graphs.php --list-graph-templates
```

```
Known Graph Templates:(id, name)
```

```
2      Interface - Traffic (bits/sec)
3      ucd/net - Available Disk Space
4      ucd/net - CPU Usage
5      Karlnet - Wireless Levels
6      Karlnet - Wireless Transmissions
7      Unix - Ping Latency
8      Unix - Processes
9      Unix - Load Average
10     Unix - Logged in Users
```

```

11      ucd/net - Load Average
12      Linux - Memory Usage
13      ucd/net - Memory Usage
14      Netware - File System Cache
15      Netware - CPU Utilization
16      Netware - File System Activity
17      Netware - Logged In Users
18      Cisco - CPU Usage
19      Netware - Volume Information
20      Netware - Directory Information
21      Unix - Available Disk Space
22      Interface - Errors/Discards
23      Interface - Unicast Packets
24      Interface - Non-Unicast Packets
25      Interface - Traffic (bytes/sec)
26      Host MIB - Available Disk Space
27      Host MIB - CPU Utilization
28      Host MIB - Logged in Users
29      Host MIB - Processes
30      Netware - Open Files
31      Interface - Traffic (bits/sec, 95th Percentile)
32      Interface - Traffic (bits/sec, Total Bandwidth)
33      Interface - Traffic (bytes/sec, Total Bandwidth)
34      SNMP - Generic OID Template

```

```
$ sudo ./add_graphs.php --host-id=2 --list-snmp-queries
```

```
Known SNMP Queries:(id, name)
```

```

1      SNMP - Interface Statistics
2      ucd/net - Get Monitored Partitions
3      Karlnet - Wireless Bridge Statistics
4      Netware - Get Available Volumes
6      Unix - Get Mounted Partitions
7      Netware - Get Processor Information
8      SNMP - Get Mounted Partitions
9      SNMP - Get Processor Information

```

```
$ sudo ./add_graphs.php --snmp-query-id=1 --list-query-types
```

```
Known SNMP Query Types: (id, name)
```

```

2      In/Out Errors/Discarded Packets
3      In/Out Non-Unicast Packets
4      In/Out Unicast Packets
9      In/Out Bytes (64-bit Counters)
13     In/Out Bits
14     In/Out Bits (64-bit Counters)
16     In/Out Bytes
20     In/Out Bits with 95th Percentile
21     In/Out Bits with Total Bandwidth
22     In/Out Bytes with Total Bandwidth

```

```
$ sudo ./add_graphs.php --list-snmp-fields --host-id=2
```

```
Known SNMP Fields for host-id 2: (name)
```

```

ifAlias
ifDescr
ifHighSpeed
ifHwAddr
ifIndex
ifIP
ifName
ifOperStatus
ifSpeed
ifType

```

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

```
Known values for ifType for host 2: (name)
ethernetCsmacd(6)
other(1)
```

```
$ sudo ./add_graphs.php --host-id=2 --snmp-query-id=1 --snmp-query-type-id=14 --snmp-
field=ifType --snmp-value=6 --graph-template-id=2 --graph-type=ds
Graph Added - graph-id: (5) - data-source-ids: (8, 8)
Graph Added - graph-id: (6) - data-source-ids: (9, 9)
```

```
$ sudo ./add_graphs.php --list-hosts
Known Hosts: (id, hostname, template, description)
1      127.0.0.1      8      Localhost
2      10.10.7.254    5      rtr7.ws.nsrc.org
3      10.10.1.254    5      rtr1.ws.nsrc.org
4      10.10.2.254    5      rtr2.ws.nsrc.org
5      10.10.3.254    5      rtr3.ws.nsrc.org
6      10.10.4.254    5      rtr4.ws.nsrc.org
7      10.10.5.254    5      rtr5.ws.nsrc.org
8      10.10.6.254    5      rtr6.ws.nsrc.org
```

```
$ for router in 3 4 5 6 7 8
> do
> sudo ./add_graphs.php --host-id=$router --snmp-query-id=1 --snmp-query-type-id=14 --snmp-
field=ifType --snmp-value=6 --graph-template-id=2 --graph-type=ds
> done
Graph Added - graph-id: (7) - data-source-ids: (10, 10)
Graph Added - graph-id: (8) - data-source-ids: (11, 11)
Graph Added - graph-id: (9) - data-source-ids: (12, 12)
Graph Added - graph-id: (10) - data-source-ids: (13, 13)
Graph Added - graph-id: (11) - data-source-ids: (14, 14)
Graph Added - graph-id: (12) - data-source-ids: (15, 15)
Graph Added - graph-id: (13) - data-source-ids: (16, 16)
Graph Added - graph-id: (14) - data-source-ids: (17, 17)
Graph Added - graph-id: (15) - data-source-ids: (18, 18)
Graph Added - graph-id: (16) - data-source-ids: (19, 19)
Graph Added - graph-id: (17) - data-source-ids: (20, 20)
Graph Added - graph-id: (18) - data-source-ids: (21, 21)
```

3. Trees

```
$ sudo ./add_tree.php
```

```
[...]
```

```
$ sudo ./add_tree.php --list-trees
Known Trees:
id      sort method      name
1      Manual Ordering (No Sorting)  Default Tree
```

```
$ 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
```

```
$ sudo ./add_tree.php --host-id=2 --tree-id=2 --node-type=host --type=node
Added Node node-id: (8)
```

```
$ for router in 3 4 5 6 7 8
> do
> sudo ./add_tree.php --host-id=$router --tree-id=2 --node-type=host --type=node
> done
Added Node node-id: (9)
```

Added Node node-id: (10)
Added Node node-id: (11)
Added Node node-id: (12)
Added Node node-id: (13)
Added Node node-id: (14)