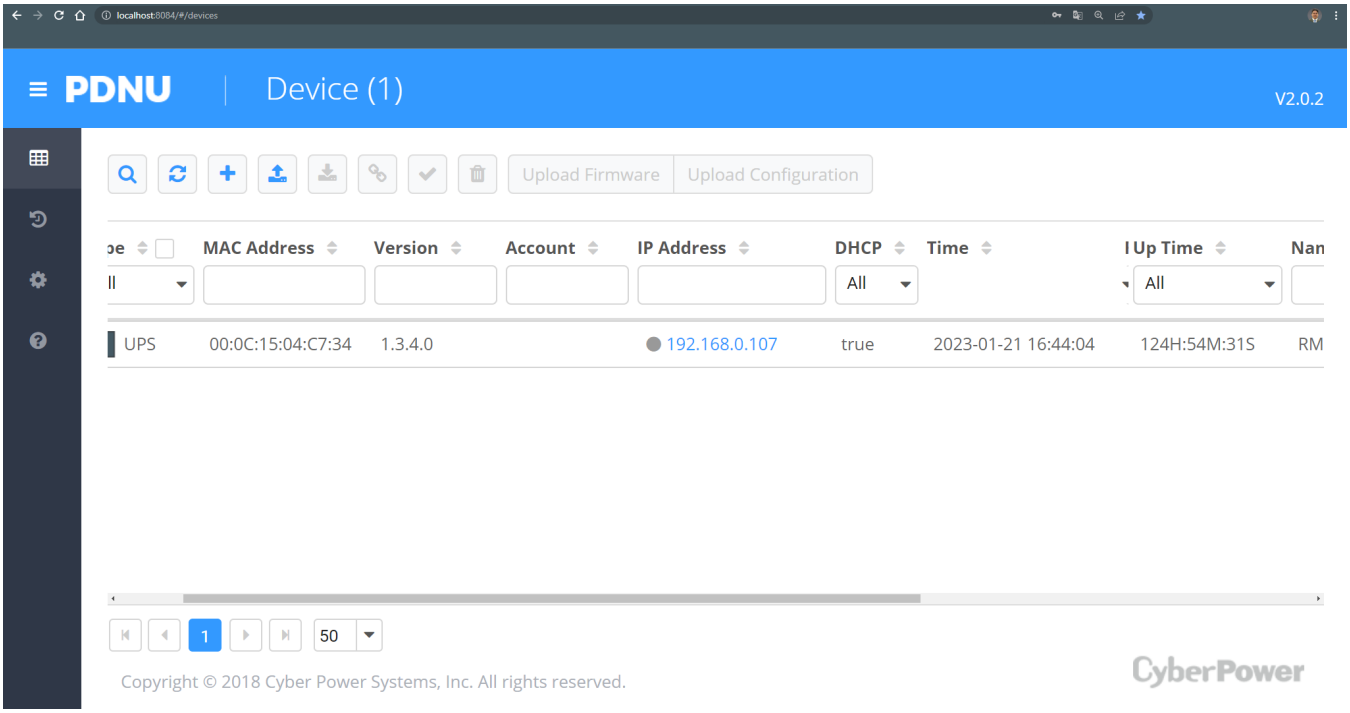
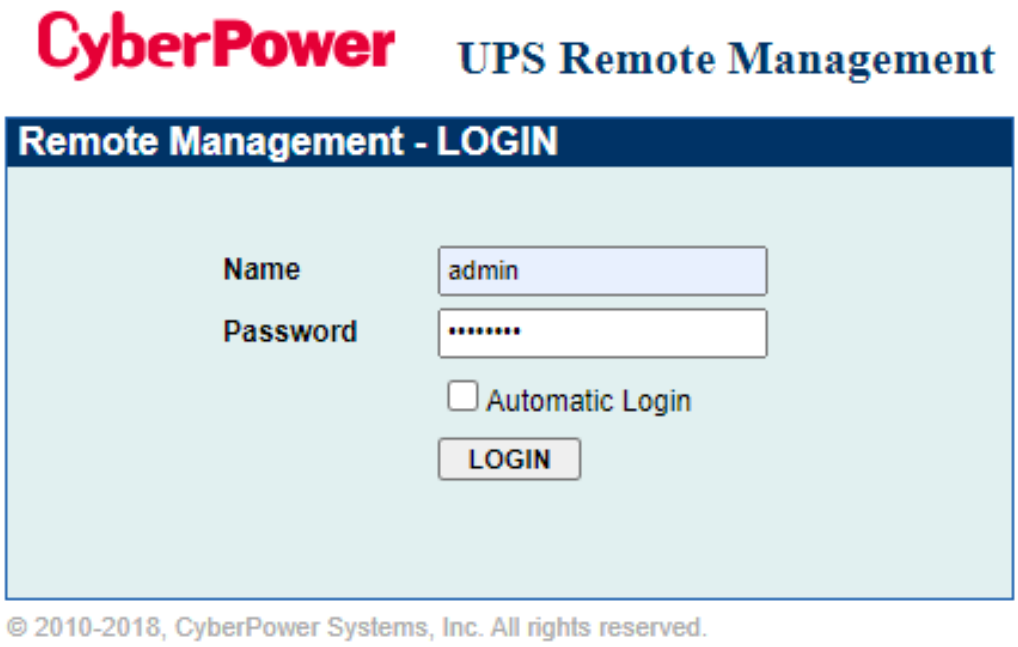
NMIS9 - SNMP Basic Configuration

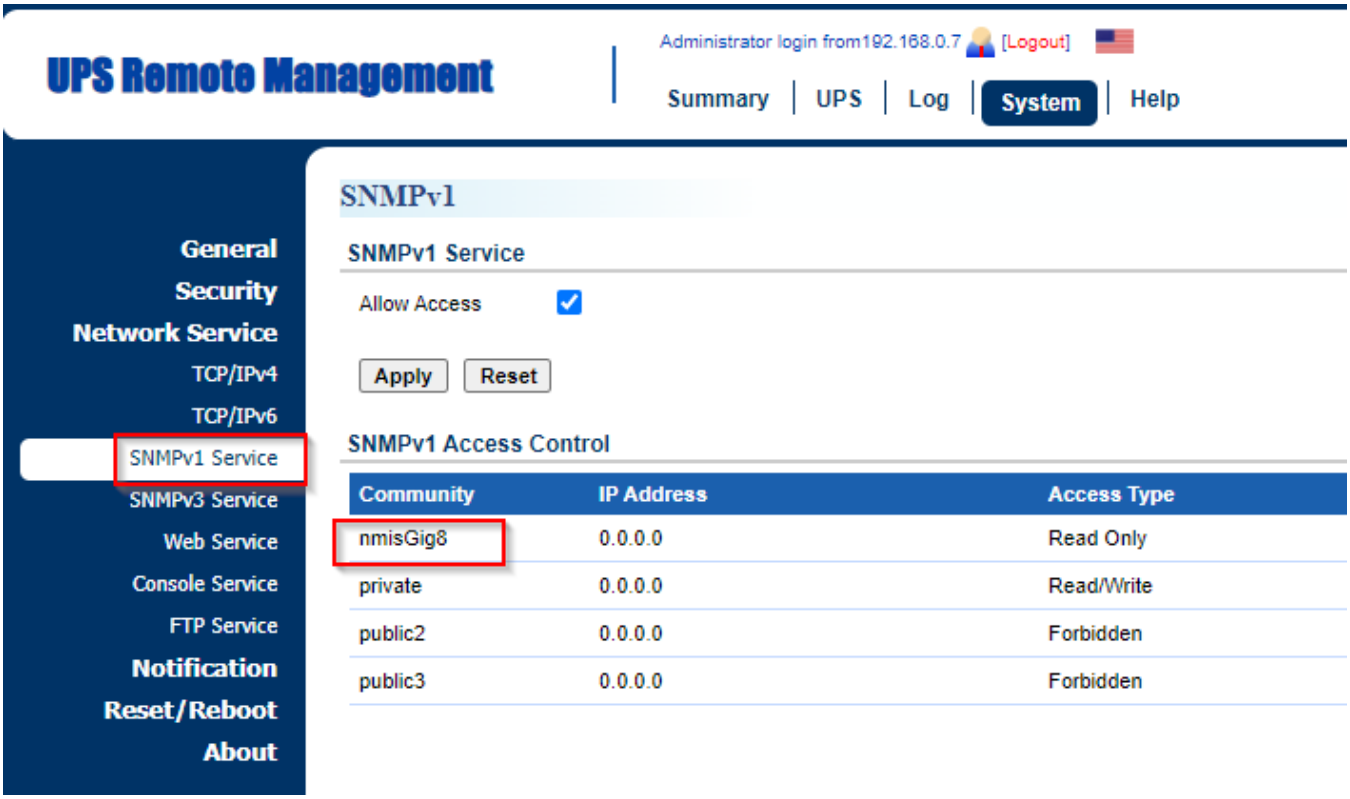
The basic configuration on a device using SNMP. In this example, I am using a CyberPower UPS 1500VA. We need to go into the UPS Remote Management and allow SNMPv1 or SNMPv3. We used SNMPv1. So, I need to specify the SNMP community string that will be used to collect.

We configured it as SNMP community string **nmisGig8.**

This is the PDNU that CyberPower used to assign an IP Address for the UPS Remote Management. It was assigned **192.168.0.107**.



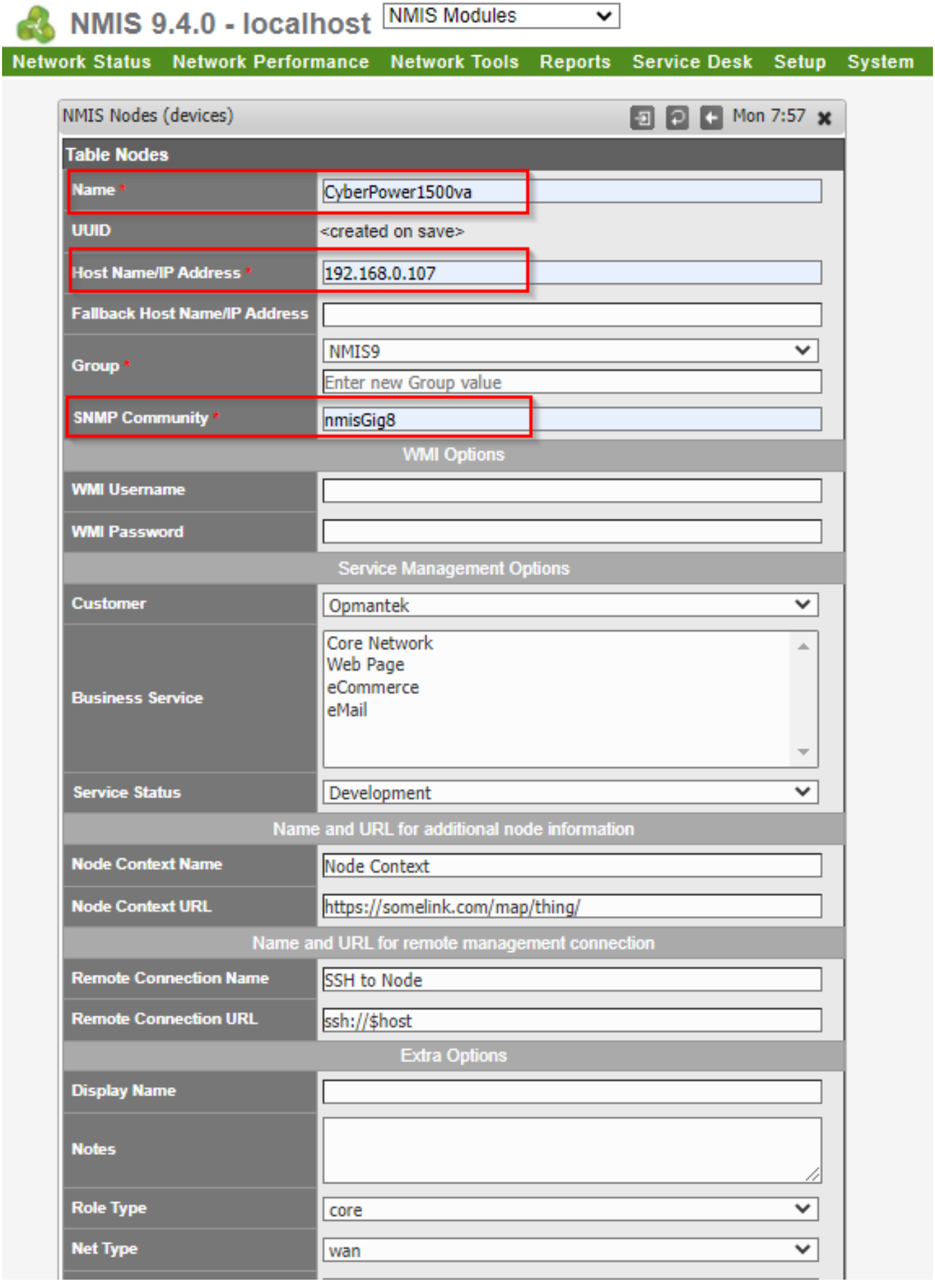

CyberPower
UPS Remote Management
Remote Management - LOGIN
Name
admin
Password
Automatic Login
LOGIN
© 2010-2018, CyberPower Systems, Inc. All rights reserved.

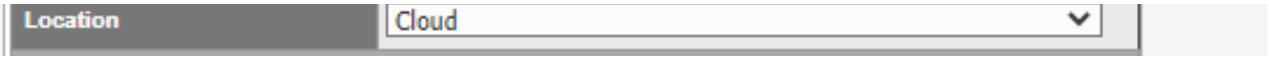

UPS Remote Management
Administrator login from192.168.0.7 [Logout]
Summary | UPS | Log | System | Help
General
Security
Network Service
TCP/IPv4
TCP/IPv6
SNMPv1 Service
SNMPv3 Service
Web Service
Console Service
FTP Service
Notification
Reset/Reboot
About
SNMPv1
SNMPv1 Service
Allow Access
Apply
Reset
SNMPv1 Access Control
Community
IP Address
Access Type
nmisGig8
0.0.0.0
Read Only
private
0.0.0.0
Read/Write
public2
0.0.0.0
Forbidden
public3
0.0.0.0
Forbidden

After you have configurated the CyberPower UPS Remote Management. You can go on CLI and test the communication of your device.

```
[omkadmin@omk-vm9-centos7 ~]$
[omkadmin@omk-vm9-centos7 ~]$ snmpwalk -v1 -c nmisGig8 -ObentU 192.168.0.107 1.3.6
.1.3.6.1.2.1.1.1.0 = STRING: UPS SNMP Card
.1.3.6.1.2.1.1.2.0 = OID: .1.3.6.1.4.1.3808.1.1.1
.1.3.6.1.2.1.1.3.0 = 45009000
.1.3.6.1.2.1.1.4.0 = STRING: Administrator
.1.3.6.1.2.1.1.5.0 = STRING: RMCARD205
.1.3.6.1.2.1.1.6.0 = STRING: Server Room
.1.3.6.1.2.1.1.7.0 = INTEGER: 72
.1.3.6.1.2.1.2.1.0 = INTEGER: 2
.1.3.6.1.2.1.2.2.1.1.1 = INTEGER: 1
.1.3.6.1.2.1.2.2.1.1.2 = INTEGER: 2
.1.3.6.1.2.1.2.2.1.2.1 = STRING: ag...
.1.3.6.1.2.1.2.2.1.2.2 = STRING: ..=..
.1.3.6.1.2.1.2.2.1.3.1 = INTEGER: 0
.1.3.6.1.2.1.2.2.1.3.2 = INTEGER: 18
.1.3.6.1.2.1.2.2.1.4.1 = INTEGER: 1500
.1.3.6.1.2.1.2.2.1.4.2 = INTEGER: 4657
.1.3.6.1.2.1.2.2.1.5.1 = Gauge32: 10000000
.1.3.6.1.2.1.2.2.1.5.2 = Gauge32: 134222401
.1.3.6.1.2.1.2.2.1.6.1 = STRING: 0:c:15:4:c7:34
.1.3.6.1.2.1.2.2.1.6.2 = STRING:
.1.3.6.1.2.1.2.2.1.7.1 = INTEGER: 7
.1.3.6.1.2.1.2.2.1.7.2 = INTEGER: 2
.1.3.6.1.2.1.2.2.1.8.1 = INTEGER: 1
.1.3.6.1.2.1.2.2.1.8.2 = INTEGER: 2
.1.3.6.1.2.1.2.2.1.9.1 = 44683800
.1.3.6.1.2.1.2.2.1.9.2 = 134222405
.1.3.6.1.2.1.2.2.1.10.1 = Counter32: 0
.1.3.6.1.2.1.2.2.1.10.2 = Counter32: 134222409
.1.3.6.1.2.1.2.2.1.11.1 = Counter32: 0
.1.3.6.1.2.1.2.2.1.11.2 = Counter32: 134222413
.1.3.6.1.2.1.2.2.1.12.1 = Counter32: 0
.1.3.6.1.2.1.2.2.1.12.2 = Counter32: 134222417
.1.3.6.1.2.1.2.2.1.13.1 = Counter32: 0
.1.3.6.1.2.1.2.2.1.13.2 = Counter32: 134222421
```

Now you can add Node for your UPS with the configuration info that you created.


NMIS 9.4.0 - localhost
NMIS Modules
Network Status
Network Performance
Network Tools
Reports
Service Desk
Setup
System
NMIS Nodes (devices)
Mon 7:57
Table Nodes
Name *
CyberPower1500va
UUID
<created on save>
Host Name/IP Address *
192.168.0.107
Fallback Host Name/IP Address
Group *
NMIS9
Enter new Group value
SNMP Community *
nmisGig8
WMI Options
WMI Username
WMI Password
Service Management Options
Customer
Opmantek
Business Service
Core Network
Web Page
eCommerce
eMail
Service Status
Development
Name and URL for additional node information
Node Context Name
Node Context
Node Context URL
https://somelink.com/map/thing/
Name and URL for remote management connection
Remote Connection Name
SSH to Node
Remote Connection URL
ssh://$host
Extra Options
Display Name
Notes
Role Type
core
Net Type
wan


Location
Cloud

Display Name	
Notes	
Role Type	core
Net Type	wan
Location	Cloud
Advanced Options	
Polling Policy	default
Model	automatic
Active	true
Ping	true
Collect	true
CBQoS	none
Threshold	true
Web Server	false
Depend	CyberPower1500va Win2012 Win2022
Services	SNMP_Daemon SNMP_Service check_disk_write dns http
Time Zone	0
SNMP Settings	
SNMP Version	snmpv1
SNMP Max Message Size	1472
SNMP Max Repetitions	0
SNMP Port	161
SNMP Username	
SNMP Context	
SNMP Auth Password	
SNMP Auth Key	
SNMP Auth Proto	md5
SNMP Priv Password	
SNMP Priv Key	
SNMP Priv Proto	des

* mandatory fields.

After, you "Add and Update Node" button. That will be the result.

How to Tuning your SNMP