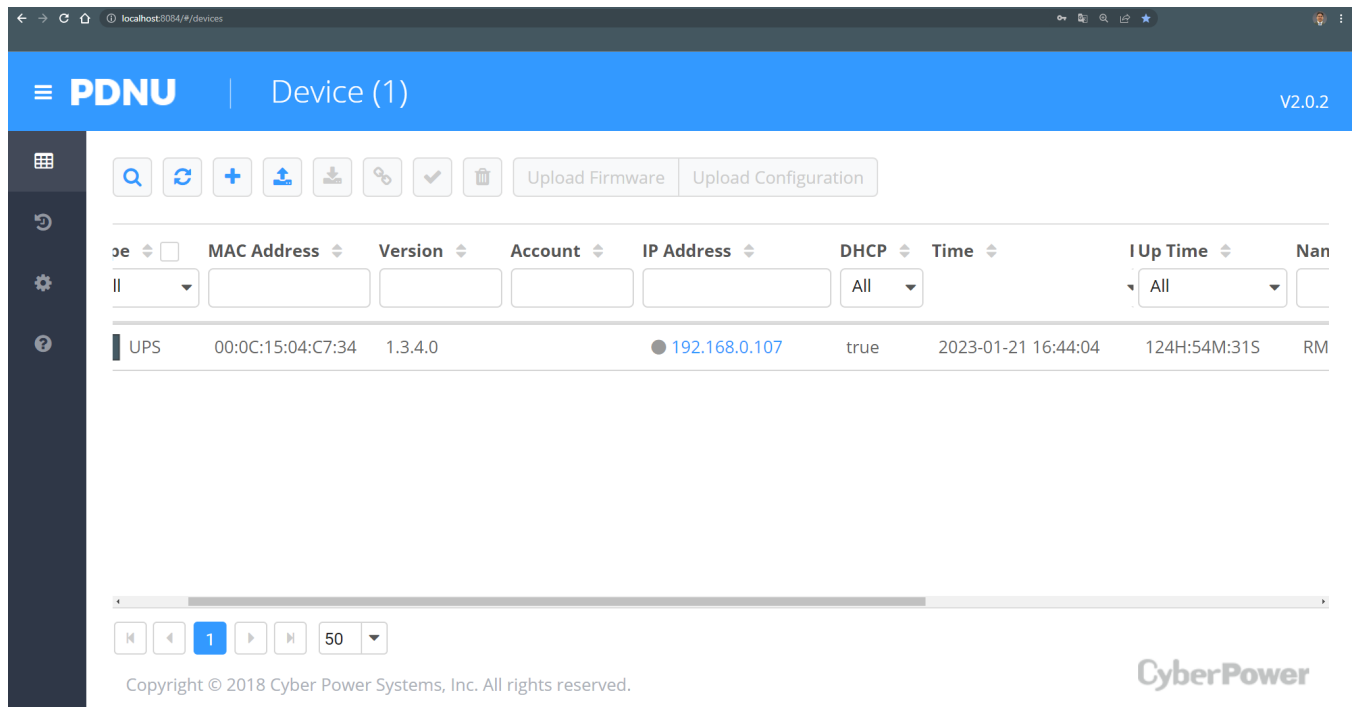


NMIS9 - SNMP Basic Configuration

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**.



The screenshot shows the PDNU Device (1) configuration page. The page has a blue header with the PDNU logo and 'Device (1)' text. Below the header is a sidebar with icons for various functions. The main content area features a table with columns for Name, MAC Address, Version, Account, IP Address, DHCP, Time, Up Time, and Name. The table contains one entry for a UPS device with the IP address 192.168.0.107. At the bottom of the page, there is a footer with the CyberPower logo and copyright information.

Name	MAC Address	Version	Account	IP Address	DHCP	Time	Up Time	Name
UPS	00:0C:15:04:C7:34	1.3.4.0		192.168.0.107	true	2023-01-21 16:44:04	124H:54M:31S	RM

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UPS Remote Management

Remote Management - LOGIN

Name

Password

☐ Automatic Login

LOGIN

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UPS Remote Management

Administrator login from 192.168.0.7 [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
nmsGig8	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 configured 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 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

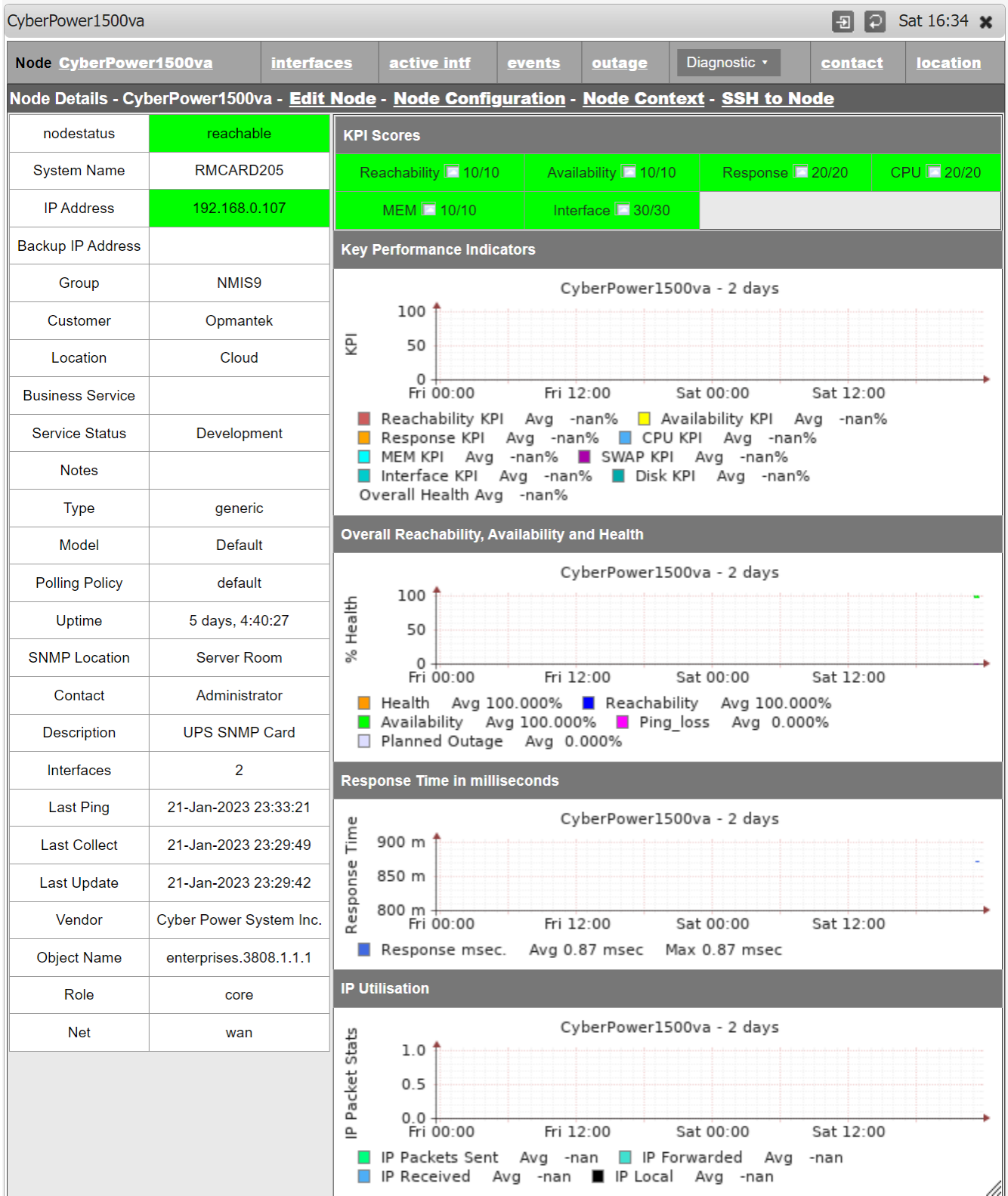
Cloud



Display Name	<input type="text"/>
Notes	<input type="text"/>
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	<input type="text"/>
SNMP Context	<input type="text"/>
SNMP Auth Password	<input type="text"/>
SNMP Auth Key	<input type="text"/>
SNMP Auth Proto	md5
SNMP Priv Password	<input type="text"/>
SNMP Priv Key	<input type="text"/>
SNMP Priv Proto	des
* mandatory fields.	

Add and Update Node Add Cancel

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



How to Tuning your SNMP