

## SNMPV3 Configuration

### Step:1:-

First, we will configure snmpv3 in the host that we are going to monitor.

Open the snmpd.conf file –

```
#vim /etc/snmp/snmpd.conf
```

and the lines

```
createUser snmpv3user SHA "authPassword" AES "privPassword"
```

```
rouser snmpv3user priv
```

```
createUser santosh SHA "password" AES "password"
```

```
rouser santosh priv
```

Here, you need to mention the username, Authentication protocol, privacy protocol, and passwords.

### Step:-2

The restart the snmp services

```
#sudo systemctl restart snmpd
```

### Step:-3(Test SNMPv3)

```
#snmpwalk -v3 -u snmpv3user -l authPriv -a SHA -A authPassword -x AES -X privPassword  
<device-ip>
```

### Step:-4

Create host in the Zabbix front end.

Host

Host IPMI Tags Macros 3 Inventory Encryption Value mapping

\* Host name snmpv3

Visible name snmpv3

Templates

| Name            | Action                  |
|-----------------|-------------------------|
| Generic by SNMP | Unlink Unlink and clear |

type here to search Select

\* Host groups Training/Server/networkDevice X

type here to search Select

Interfaces

| Type | IP address     | DNS name | Connect to | Port | Default                                 |
|------|----------------|----------|------------|------|---|
| SNMP | 192.168.47.141 |          | IP DNS     | 161  | <input checked="" type="radio"/> Remove |

\* SNMP version SNMPv3

Max repetition count 10

Context name

Security name {SNMPV3.SECURITYNAME}

Security level authPriv

Update Clone Delete Cancel

Host

Host

IPMI

Tags

Macros 3

Inventory

Encryption

Value mapping

Security name

{SNMPV3.SECURITYNAME}

Security level

authPriv

Authentication protocol

SHA1

Authentication passphrase

{SNMPV3.AUTHPASS}

Privacy protocol

AES128

Privacy passphrase

{SNMPV3.PRIVATEPASS}

☒ Use combined requests

Add

Description

Monitored by

Server

Proxy

Proxy group

ZBX-PXY-01 x

Select

Update

Clone

Delete

Cancel

## Macros configuration:-

Host

Host

IPMI

Tags

Macros 3

Inventory

Encryption

Value mapping

Host macros

Inherited and host macros

Macro

Value

Description

{SNMPV3.AUTHPASS}

password

T

description

Remove

{SNMPV3.PRIVATEPASS}

password

T

description

Remove

{SNMPV3.SECURITYNAME}

santosh

T

description

Remove

Add

Update

Clone

Delete

Cancel

| <input type="checkbox"/> Host   | Name ▲                               | Last check | Last value            | Change    | Tags                                 | Info    |
|---------------------------------|--------------------------------------|------------|-----------------------|-----------|--------------------------------------|---------|
| <input type="checkbox"/> snmpv3 | ICMP loss                            | 47s        | 0 %                   |           | component: health component: network | Graph   |
| <input type="checkbox"/> snmpv3 | ICMP ping                            | 47s        | Up (1)                |           | component: health component: network | Graph   |
| <input type="checkbox"/> snmpv3 | ICMP response time                   | 47s        | 0.46ms                | +0.1ms    | component: health component: network | Graph   |
| <input type="checkbox"/> snmpv3 | SNMP agent availability <sup>?</sup> | 16s        | available (1)         |           | component: health component: network | Graph   |
| <input type="checkbox"/> snmpv3 | SNMP traps (failback) <sup>?</sup>   |            |                       |           | component: network                   | History |
| <input type="checkbox"/> snmpv3 | System contact details <sup>?</sup>  | 16m 17s    | Root <root@local...   |           | component: system                    | History |
| <input type="checkbox"/> snmpv3 | System description <sup>?</sup>      | 16m 17s    | Linux localhost.lo... |           | component: system                    | History |
| <input type="checkbox"/> snmpv3 | System location <sup>?</sup>         | 16m 17s    | Unknown (edit /et...  |           | component: system                    | History |
| <input type="checkbox"/> snmpv3 | System name <sup>?</sup>             | 6m 48s     | localhost.localdo...  |           | component: system                    | History |
| <input type="checkbox"/> snmpv3 | System object ID <sup>?</sup>        | 6m 48s     | NET-SNMP-MIB...       |           | component: system                    | History |
| <input type="checkbox"/> snmpv3 | Uptime (hardware) <sup>?</sup>       | 18s        | 00:35:59              | +00:00:30 | component: system                    | Graph   |
| <input type="checkbox"/> snmpv3 | Uptime (network) <sup>?</sup>        | 18s        | 00:27:59              | +00:00:30 | component: system                    | Graph   |

Displaying 12 of 12 found

0 selected 

Display stacked graph

Display graph

Execute now

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