

Truenas Monitoring with Zabbix

Enable SNMP on Truenas Host


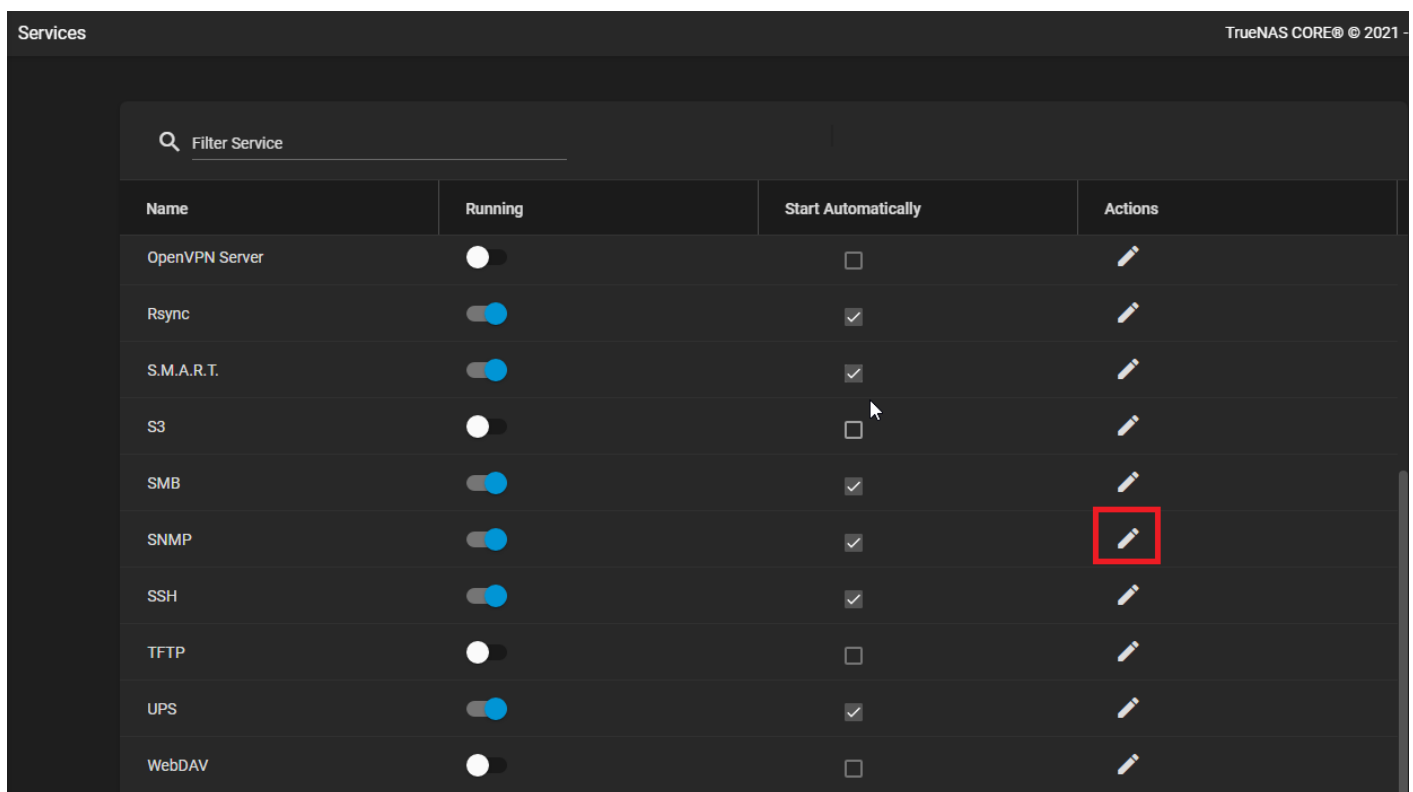
- On your Truenas host navigate to **Services**.
- Locate the **SNMP** service and click the  icon (**Figure 1**).

Figure 1



- Take note of the **Community** value which by default should be set to **public** (**Figure 2**) and click the CANCEL button to go back to **Services**.

Figure 2

Services / SNMP TrueNAS CORE

General Options

Location ?

Contact ?

Community ?
public

SNMP v3 Options

☐ SNMP v3 Support ?

Other Options

Auxiliary Parameters ?

☐ Expose zlistat via SNMP ?

Log Level
Info ?

☐ Enable Network Performance Statistics ?

SAVE **CANCEL**

- Back in the **Services** page, on the **SNMP** service, ensure the **Start Automatically** is checked and slide the **Running** slider to the right so that it turns blue to indicate the service is running (**Figure 3**).

Figure 3

Services TrueNAS CORE © 2021

Filter Service

Name	Running	Start Automatically	Actions
OpenVPN Server	<input type="checkbox"/>	<input type="checkbox"/>	
Rsync	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
S.M.A.R.T.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
S3	<input type="checkbox"/>	<input type="checkbox"/>	
SMB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SNMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SSH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
TFTP	<input type="checkbox"/>	<input type="checkbox"/>	
UPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
WebDAV	<input type="checkbox"/>	<input type="checkbox"/>	

Download the the FREENAS-MIB Definitions File from your Truenas Host


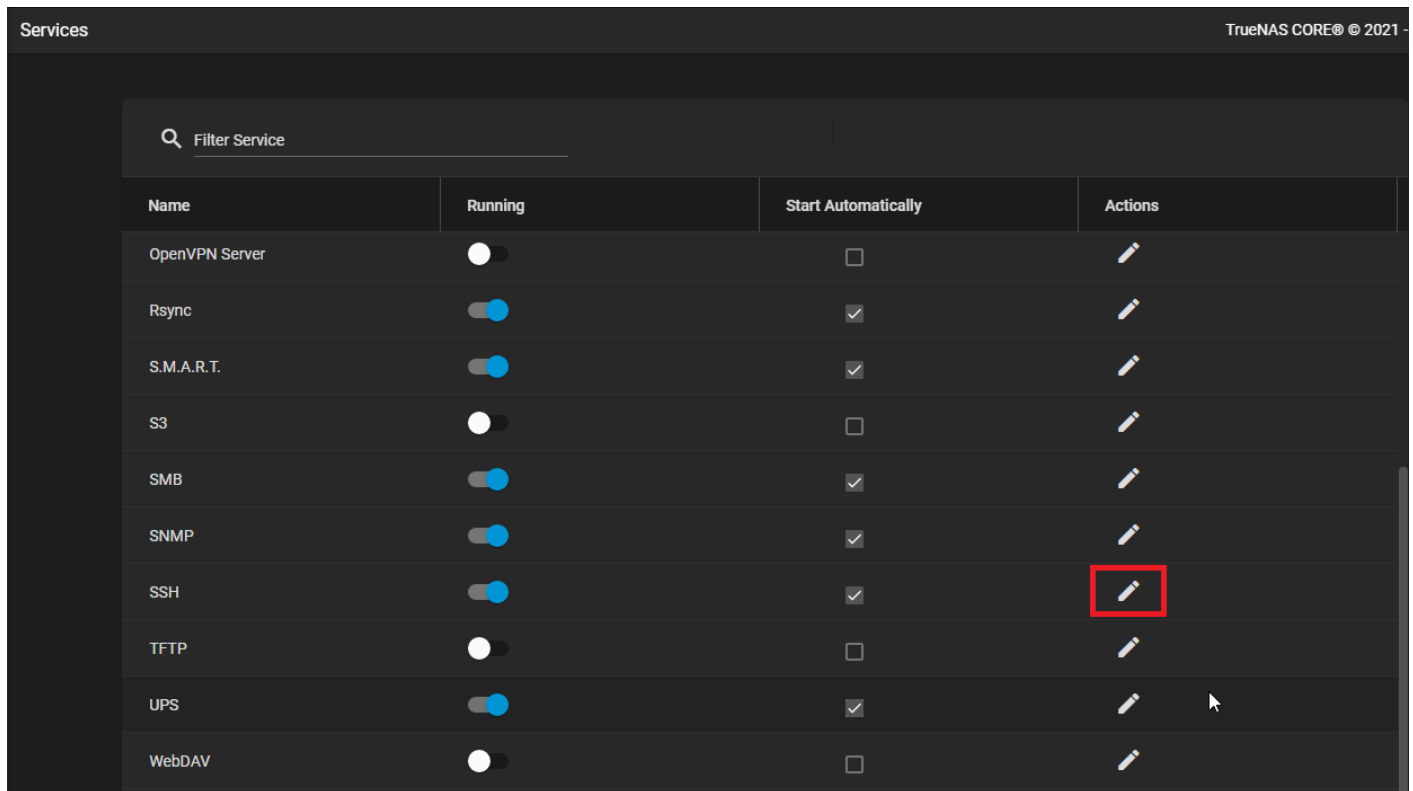
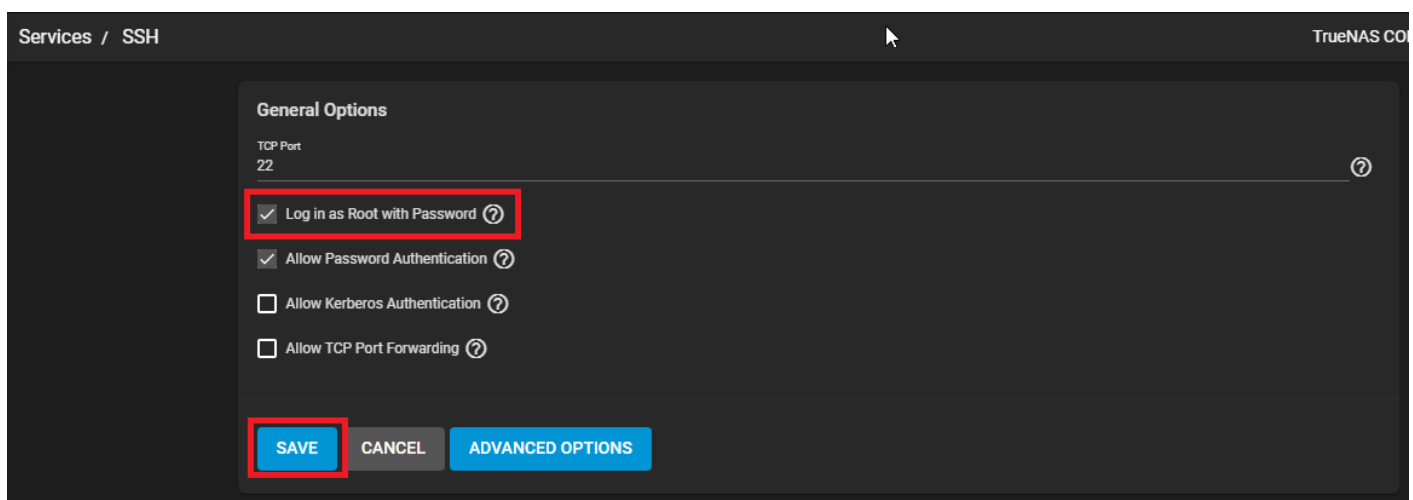
- On your Truenas host navigate to **Services**.
- Locate the **SSH** service and click the  icon (**Figure 4**).

Figure 4



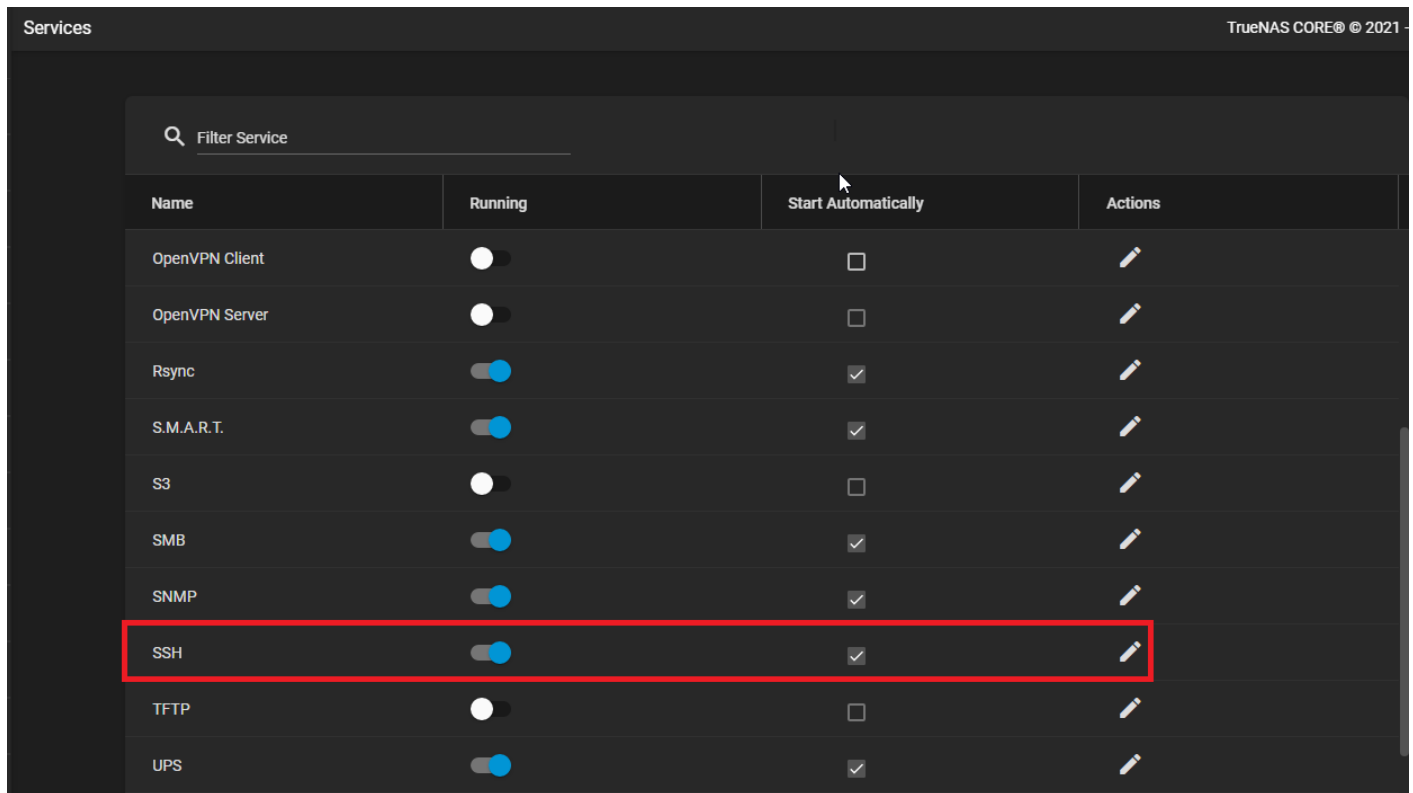
- Place a checkmark on the Log in as **Root with Password** checkbox and click the **SAVE** button (**Figure 5**).

Figure 5



- Back in the **Services** page, on the **SSH** service, ensure the **Start Automatically** is checked and slide the **Running** slider to the left to stop the SSH service and then slide back to the right so that it turns blue to indicate the service is running (this ensures the new SSH settings we set take effect (**Figure 6**).

Figure 6



Name	Running	Start Automatically	Actions
OpenVPN Client	<input type="checkbox"/>	<input type="checkbox"/>	
OpenVPN Server	<input type="checkbox"/>	<input type="checkbox"/>	
Rsync	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
S.M.A.R.T.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
S3	<input type="checkbox"/>	<input type="checkbox"/>	
SMB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SNMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
SSH	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
TFTP	<input type="checkbox"/>	<input type="checkbox"/>	
UPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

- Using [Winscp](#) or any tool of your choice, login to your Truenas host using the SCP protocol, navigate to **/usr/local/share/snmp/mibs/** and download **FREENAS-MIB.txt** to your computer.

Copy the the FREENAS-MIB Definitions File to your Zabbix Server

- Using [Winscp](#) or any tool of your choice, login to your Zabbix Server host using the SCP protocol and copy the **FREENAS-MIB.txt** file you downloaded from your Truenas host above to the **/var/lib/zabbix/mibs/** directory. If you have deployed Zabbix server on docker, the directory would be **/path-to-zabbix-docker/zbx_env/var/lib/zabbix/mibs/**.
- Restart your Zabbix server.

Import the SNMP Freenas 11 Template into Zabbix Server

- Download the [template freenas 11 snmp.xml](#) template from this article or download it from the [Zabbix Community Templates](#) Github page.
- On your Zabbix server navigate to **Configuration ---> Templates --> Import**.

- On the **Import** page, click the **Choose File** button and navigate to the location of the downloaded **template_freenas_11_snmp.xml** file and click **Open**.
- Back to the **Import** page, click the **Import** button (**Figure 7**).

Figure 7

The screenshot shows the Zabbix 'Import' page. At the top, there is a section for the import file, which includes a red box around the text '* Import file', a 'Choose File' button, and the filename 'template_freenas_11_snmp.xml'. Below this is a table with columns for 'Rules', 'Update existing', 'Create new', and 'Delete missing'. The 'Rules' column lists various Zabbix components, and the other columns contain checkboxes for selection. At the bottom, there is a red box around the 'Import' button and a 'Cancel' button.

Rules	Update existing	Create new	Delete missing
Groups		<input checked="" type="checkbox"/>	
Hosts	<input type="checkbox"/>	<input type="checkbox"/>	
Templates	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Template screens	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Template linkage		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Applications		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Items	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discovery rules	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Triggers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Graphs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Web scenarios	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screens	<input type="checkbox"/>	<input type="checkbox"/>	
Maps	<input type="checkbox"/>	<input type="checkbox"/>	
Images	<input type="checkbox"/>	<input type="checkbox"/>	
Media types	<input type="checkbox"/>	<input type="checkbox"/>	
Value mappings	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Add Truenas Host to Zabbix server

- On your Zabbix server navigate to **Configuration ---> Host ---> Create Host**.
- In the **Host name** field enter the name of your Truenas host
- Set the **Groups** field to an existing group or create a new one.
- In the **Interfaces** section add the IP address of your Truenas host in the **Agent IP address** field
- Click the **Add** link and in the resultant menu select the **SNMP** option (**Figure 8**).

Figure 8

Hosts

Host Templates IPMI Tags Macros Inventory Encryption

* Host name

Visible name

* Groups ×
type here to search

* Interfaces

Type	IP address	DNS name	Connect to	Port	Default
Agent	<input type="text" value="192.168.1.100"/>	<input type="text"/>	<input type="button" value="IP"/> <input type="button" value="DNS"/>	<input type="text" value="10050"/>	<input checked="" type="radio"/> Remove

Description

Agent

JMX

IPMI

Monitored by proxy

Enabled ☒

- In the **SNMP** field enter the IP address of your Truenas host again.
- Ensure the **SNMP version** field is set to **SNMPv2**.
- In the **SNMP community** field enter the community value you got from the Truenas SNMP service above (Default: **public**) (**Figure 9**).

Figure 9

Hosts

Host Templates IPMI Tags Macros Inventory Encryption

* Host name

Visible name

* Groups SAN/NAS ✕ Select

* Interfaces

Type	IP address	DNS name	Connect to	Port	Default
Agent	192.168.1.100		IP DNS	10050	<input checked="" type="radio"/> Remove
SNMP	192.168.1.100		IP DNS	161	<input checked="" type="radio"/> Remove

* SNMP version SNMPv2 ▾

* SNMP community

☒ Use bulk requests

Description

Monitored by proxy (no proxy) ▾

Enabled ☒

Add Cancel

- Click the **Templates** link on top of the screen, in the **Link new templates** section, search and select the **SNMP FreeNAS 11** template you imported earlier and then click the **Update** button (Figure 10).

Figure 10

Hosts

All hosts / ec-truenas Enabled ZBX SNMP JMX IPMI Applications 8 Items 198 Triggers 33 Graphs 49 Discovery rules 5 Web scenarios

Host Templates IPMI Tags Macros Inventory Encryption

Linked templates Action

Link new templates SNMP FreeNAS 11 ✕ Select

Update Clone Full clone Delete Cancel

- Navigate to **Monitoring --> Hosts**, locate the Truenas host you just added and click the **Latest data** link and wait for data to start appearing. It may take a few minutes.

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