

Configure Zabbix to Monitor Network Packet Broker via SNMP

Models: T5850-32S2Q/T5850-48S6Q/T5850-48S2Q4C

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1. Preface

Zabbix is an open-source monitoring software for networks and applications. It can monitor many network parameters and the health and integrity of servers, virtual machines, and any other kind of network devices. This document will guide you to import the FS template in Zabbix and apply the template to monitor the FS Network Packet Brokers. The version of Zabbix in this document is 4.4.4 (CentOS Linux version is 7.7, Mysql version is 5.6.46), and taking T5850 network packet broker as an example to monitor the T5850-48S6Q network packet broker.

2. Operation Guide

2.1 Operation Steps

- Configure SNMP function of the network packet broker.
- Log in to Zabbix to import the "FS T5850 Series" template
- Create host group FS T5850 and link "FS T5850 Series" template
- Create host, link FS T5850 host group, link "FS T5850 Series" template
- Monitor host data

2.2 Operation Process

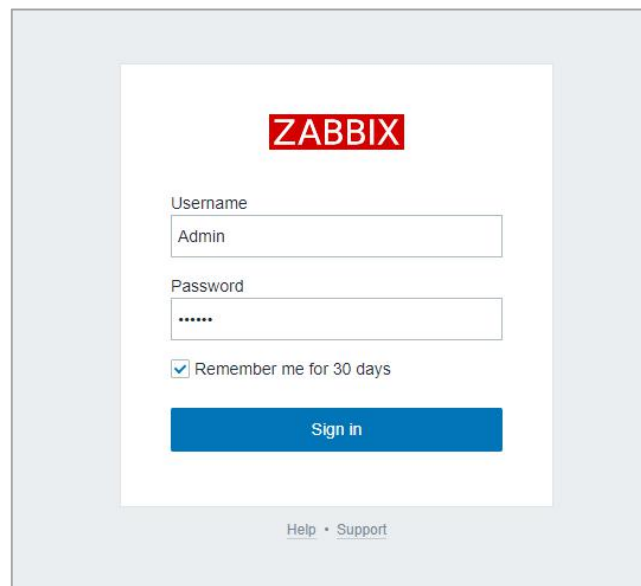
2.2.1 Configure the Switch

Take T5850-48S6Qs as an example to configure the SNMP function

```
Switch# configure terminal
Switch(config)# snmp-server enable
Switch(config)# snmp-server version v2c
Switch(config)# snmp-server community Public read-only
```

2.2.2 Log in to Zabbix to Import Templates

Step 1:



ZABBIX

Username
Admin

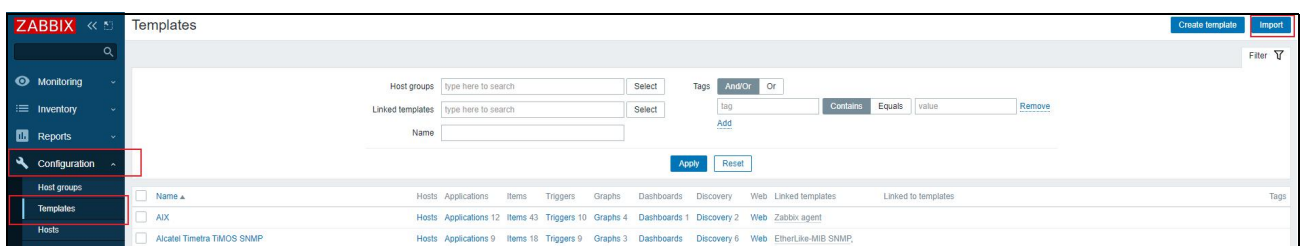
Password

☒ Remember me for 30 days

Sign in

[Help](#) • [Support](#)

Step 2: Select the **Templates** under Configuration category, and click **Import** in the upper right corner to enter the template import interface.



ZABBIX << Templates

Host groups: type here to search Select Tags: And/Or Or

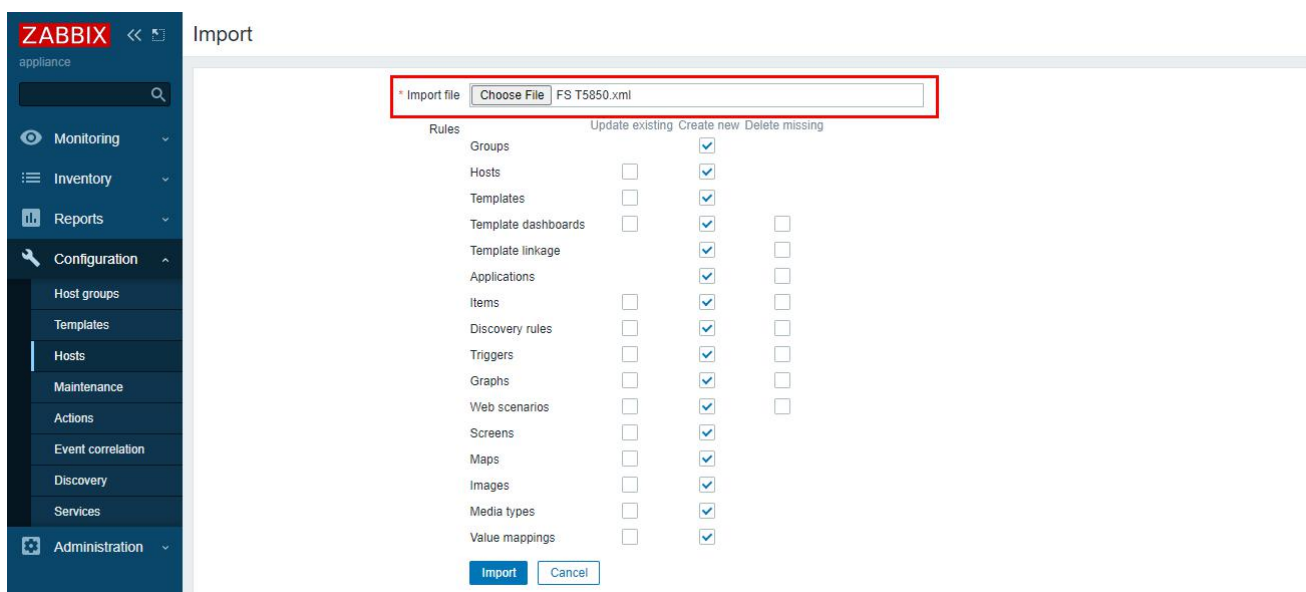
Linked templates: type here to search Select tag Contains Equals value Remove

Name

Apply **Reset**

Name	Hosts	Applications	Items	Triggers	Graphs	Dashboards	Discovery	Web	Linked templates	Linked to templates	Tags
AUX	Hosts	Applications 12	Items 43	Triggers 10	Graphs 4	Dashboards 1	Discovery 2	Web	Zabbix agent		
Alcatel-Timera-TMOS-SNMP	Hosts	Applications 9	Items 19	Triggers 9	Graphs 3	Dashboards	Discovery 6	Web	EtherNet-MIB-SNMP		

Step 3: Select the 'FS T5850 Series', click the **Import** button to import it, and then you can see the "FS T5850 Series" templates that have been successfully imported in the template list after the import success is displayed.



ZABBIX << Import

appliance

* Import file **Choose File** FS T5850.xml

Rules

Rules	Update existing	Create new	Delete missing
Groups	☒	☒	☐
Hosts	☐	☒	☐
Templates	☐	☒	☐
Template dashboards	☐	☒	☐
Template linkage	☐	☒	☐
Applications	☐	☒	☐
Items	☐	☒	☐
Discovery rules	☐	☒	☐
Triggers	☐	☒	☐
Graphs	☐	☒	☐
Web scenarios	☐	☒	☐
Screens	☐	☒	☐
Maps	☐	☒	☐
Images	☐	☒	☐
Media types	☐	☒	☐
Value mappings	☐	☒	☐

Import **Cancel**

ZABBIX

appliance

Monitoring

Inventory

Reports

Configuration

Host groups

Templates

Hosts

Maintenance

Actions

Event correlation

Discovery

Services

Templates

Create template

Import

Filter

Host groups

type here to search

Select

Tags

And/Or

Or

Linked templates

type here to search

Select

tag

Contains

Equals

value

Remove

Add

Name

FS

Apply

Reset

☐	Name ▲	Hosts	Applications	Items	Triggers	Graphs	Dashboards	Discovery	Web	Linked templates	Linked to templates	Tags
☐	FS S2800S	Hosts 4	Applications 2	Items 3	Triggers	Graphs	Dashboards	Discovery 1	Web	Interfaces SNMP		
☐	FS TS800	Hosts	Applications 6	Items 33	Triggers	Graphs 2	Dashboards	Discovery	Web			
☐	FS TS650	Hosts	Applications 6	Items 33	Triggers	Graphs 1	Dashboards	Discovery	Web			

0 selected

Export

Mass update

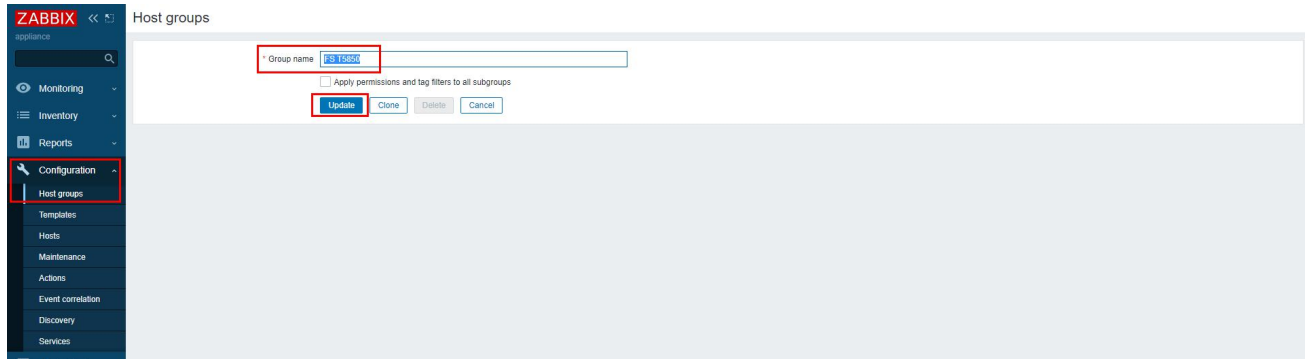
Delete

Delete and clear

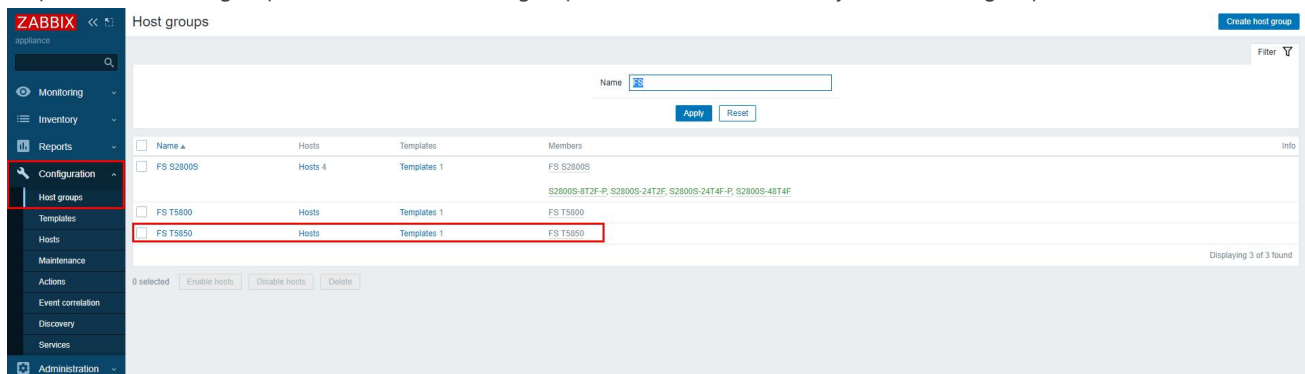
Displaying 3 of 3 found

2.2.3 Create Host Groups

Step 1: Select the **host groups** and click the **Create host group** button in the upper-right corner.

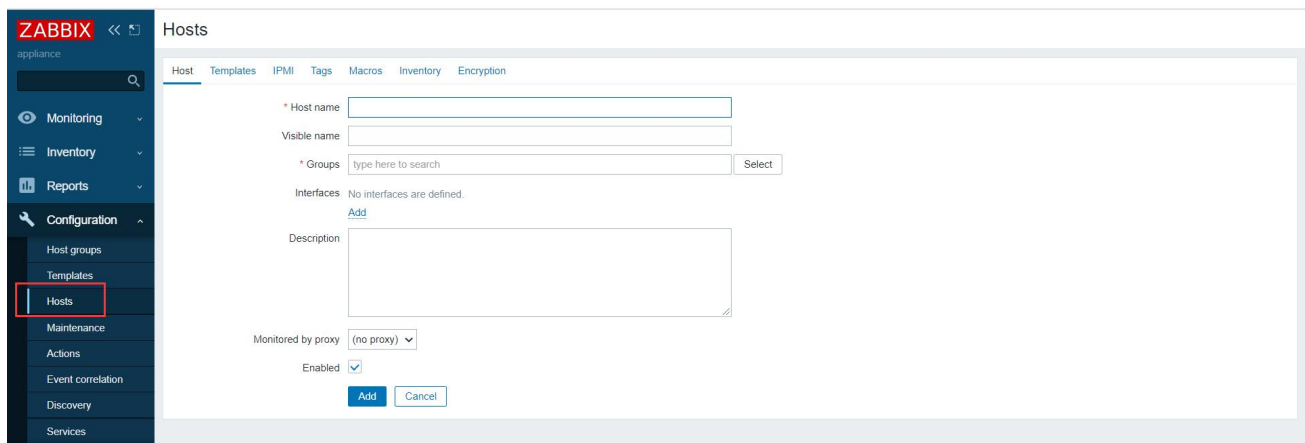


Step 2: Create a host group named 'FS T5850' host group, then view the successfully created host group.



2.2.4 Create Hosts

Step 1: Enter **Hosts** page under **Configuration**, click on the **Create Host** button in the upper right corner to create the host.



Step 2: Create a host named T5850-48S6Q select the FS T5850 host group, enter the management IP address of the switch in the SNMP interfaces, remove the check box before Use bulk requests, and click Add.

ZABBIX << appliance

Monitoring

Inventory

Reports

Configuration

Host groups

Templates

Hosts

Maintenance

Actions

Event correlation

Discovery

Services

Administration

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
SNMP		10.32.130.136		IP DNS	161	☒ Remove

SNMP version

* SNMP community

☐ Use bulk requests

Description

Monitored by proxy

Enabled ☒

Step 3: You can view the created hosts under the host list.

ZABBIX << appliance

Monitoring

Inventory

Reports

Configuration

Host groups

Templates

Hosts

Maintenance

Actions

Event correlation

Discovery

Hosts

☒ Host added

Host groups

Templates

Name

DNS

IP

Port

Monitored by

Proxy

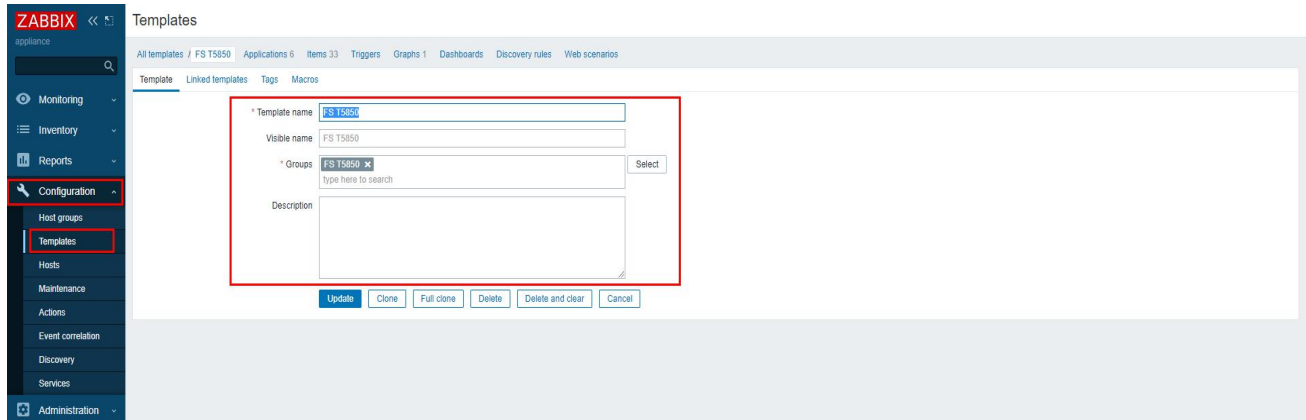
Tags

tag value

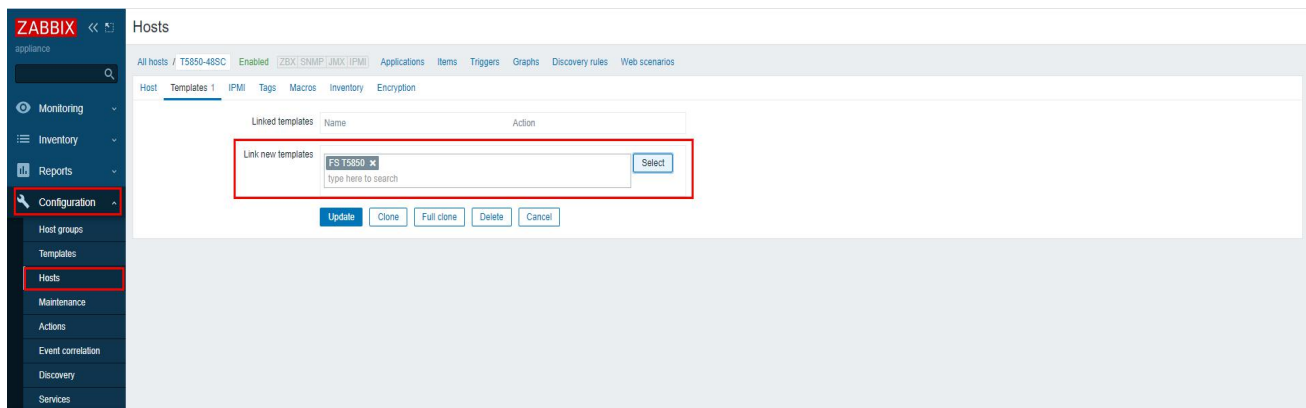
Name	Applications	Items	Triggers	Graphs	Discovery	Web	Interface	Proxy	Templates	Status	Availability	Agent encryption	Info	Tags
☐ T5850-48S6Q	Applications	Items	Triggers	Graphs	Discovery	Web	10.32.130.136:161			Enabled	2024-12-10 10:32:130.136:161	None		

2.2.5 Link Template and Host Group

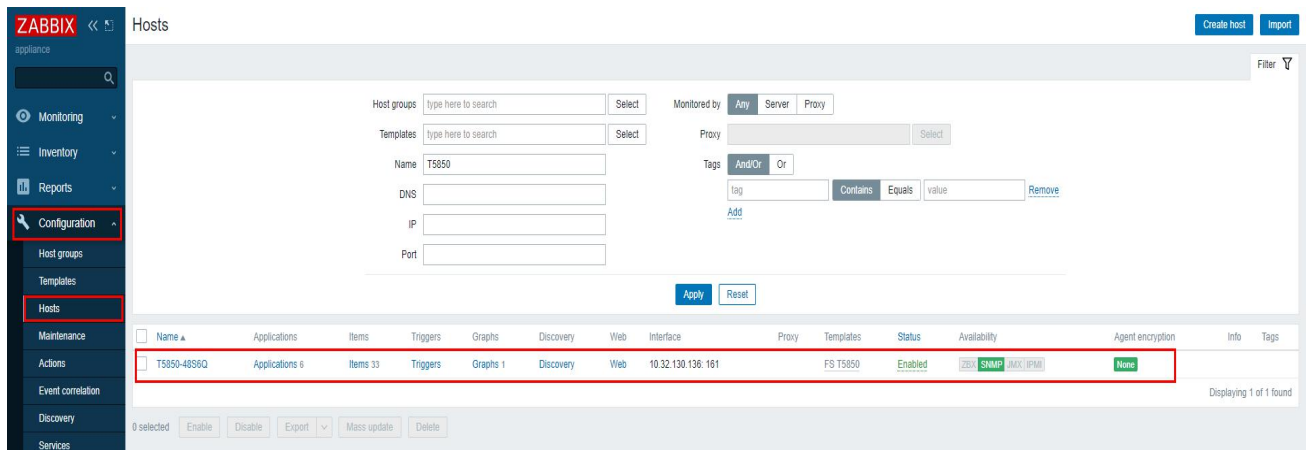
Step 1: Link the FS T5850 host group in the “FS T5850 Series” template.



Step 2: Link “FS T5850 Series” template under T5850-48S6Q host.



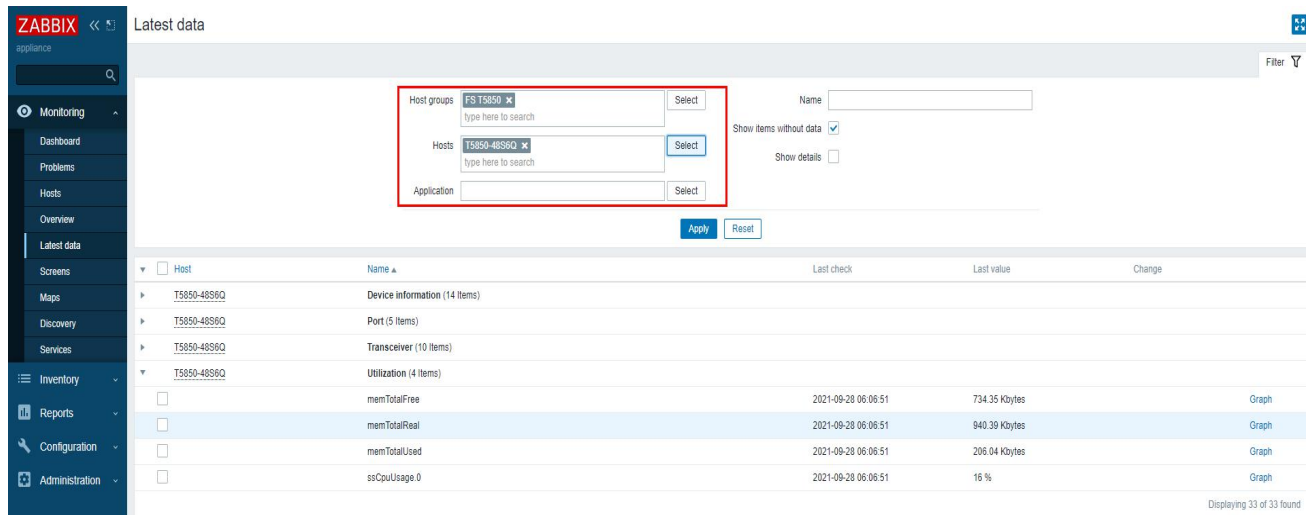
Step 3: Return to the host interface, you can view the information that has been linked to the template in the host.



2.2.6 Monitoring Switch Data

Select FS T5850 Host groups and T5850-48S6Q Hosts, you can view that Zabbix has monitored the relevant information and data

of the T5850-48S6Q.

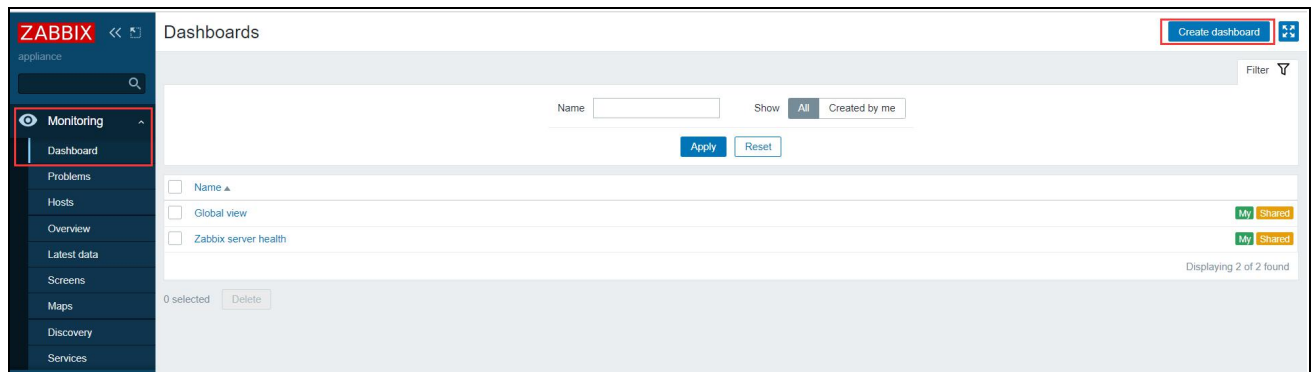


Host	Name	Last check	Last value	Change
T5850-48S6Q	Device information (14 items)			
T5850-48S6Q	Port (5 items)			
T5850-48S6Q	Transceiver (10 items)			
T5850-48S6Q	Utilization (4 items)			
	memTotalFree	2021-09-28 06:06:51	734.35 Kbytes	Graph
	memTotalReal	2021-09-28 06:06:51	940.39 Kbytes	Graph
	memTotalUsed	2021-09-28 06:06:51	206.04 Kbytes	Graph
	ssCpuUsage 0	2021-09-28 06:06:51	16 %	Graph

2.3 Zabbix Personalized Customization

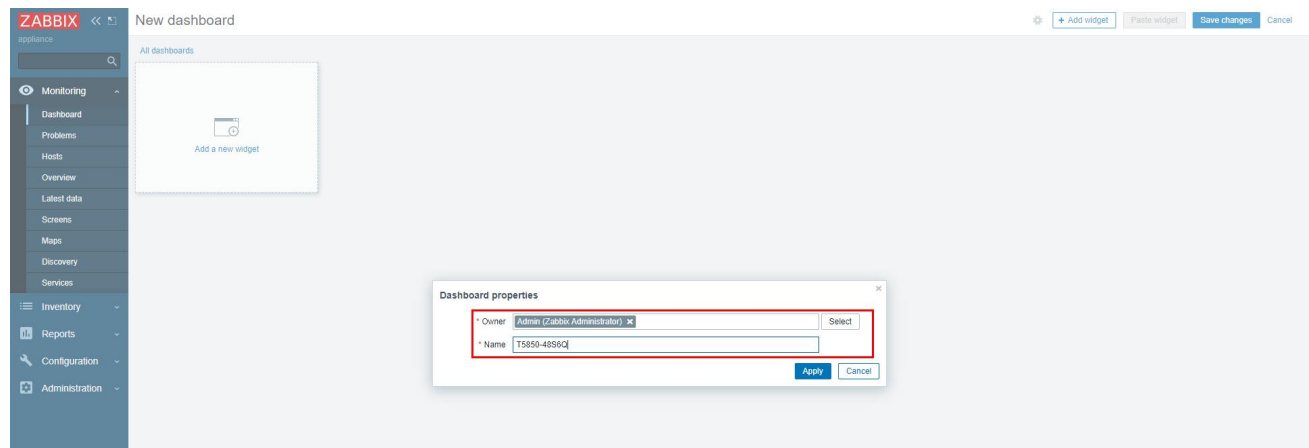
Zabbix's Dashboard can display visualized information and data (overview, map, chart, clock, etc.). Here we take the creation of CPU utilization as an example.

Step 1: Click Create dashboard in the upper right corner to create a dashboard.

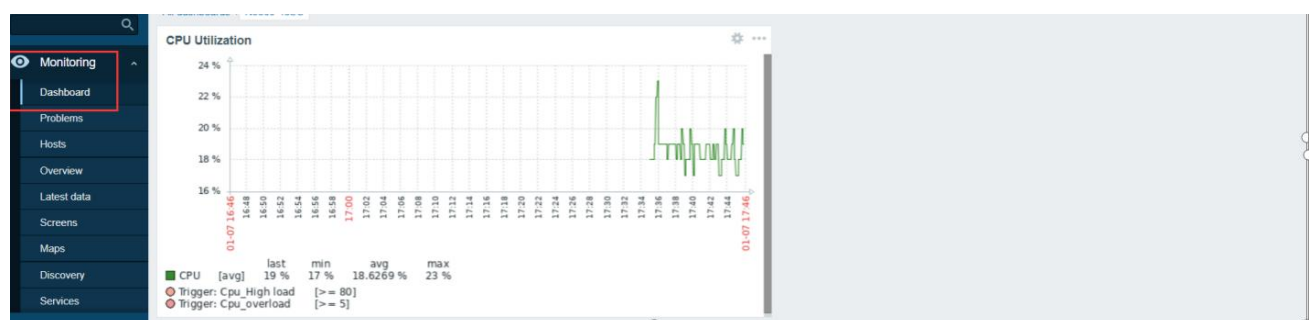
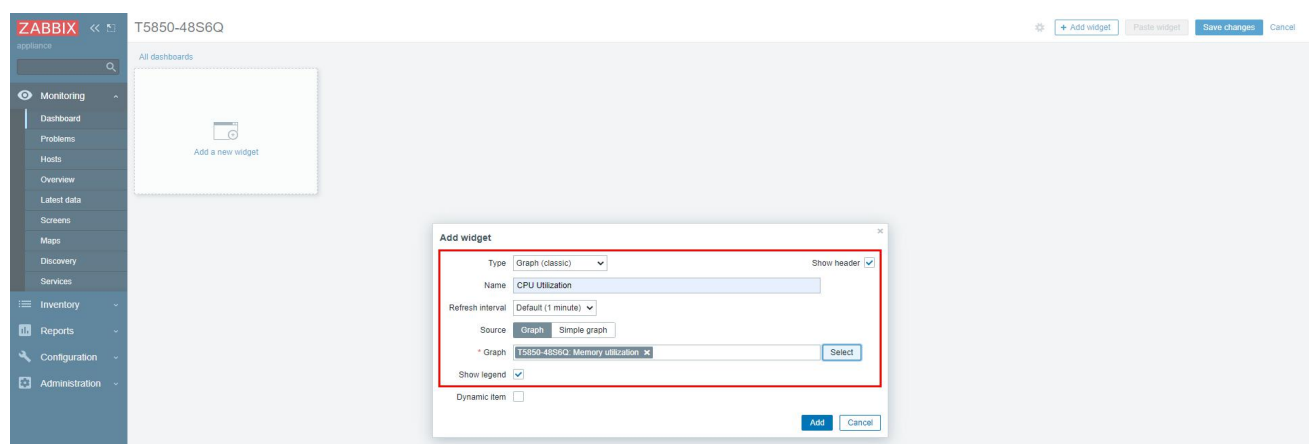


Name	Global view	Zabbix server health
Global view	My	Shared
Zabbix server health	My	Shared

Step 2: Create a dashboard named T5850-48S6Q dashboard.

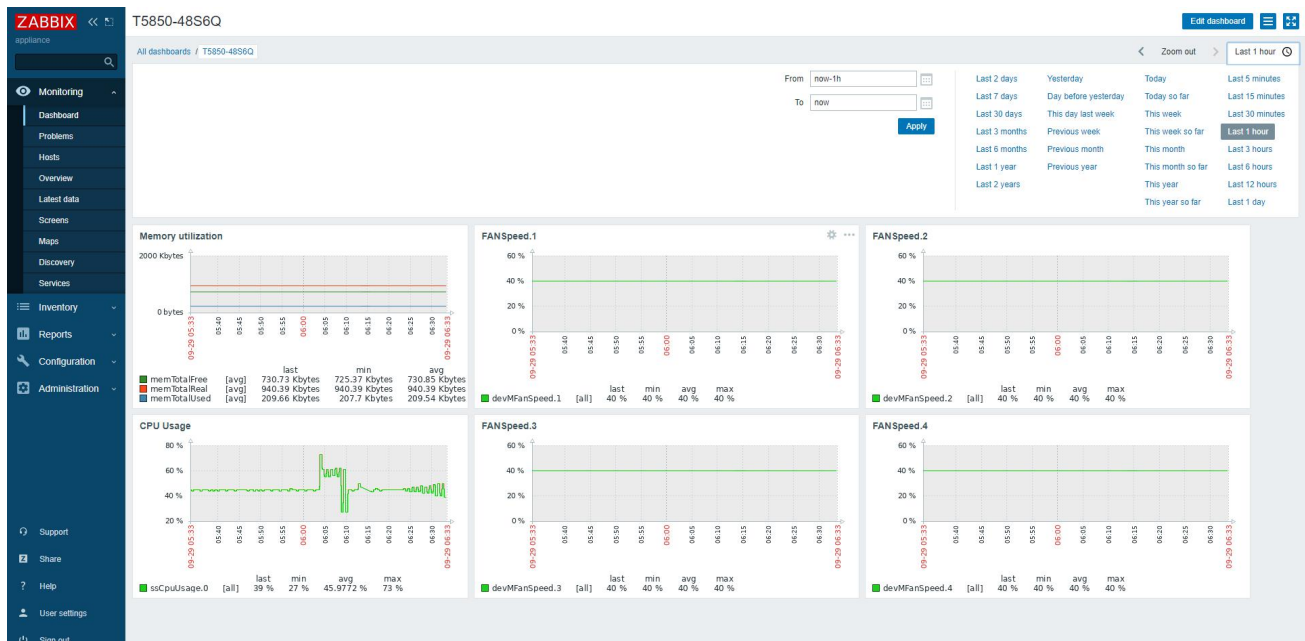


Step 3: Click anywhere on the dashboard to create a component, for example named as cpu Utilization, select T5850-48S6Q host pattern, CPU item pattern of Data set, and click Create.



Step 4: View the created components and save the dashboard.

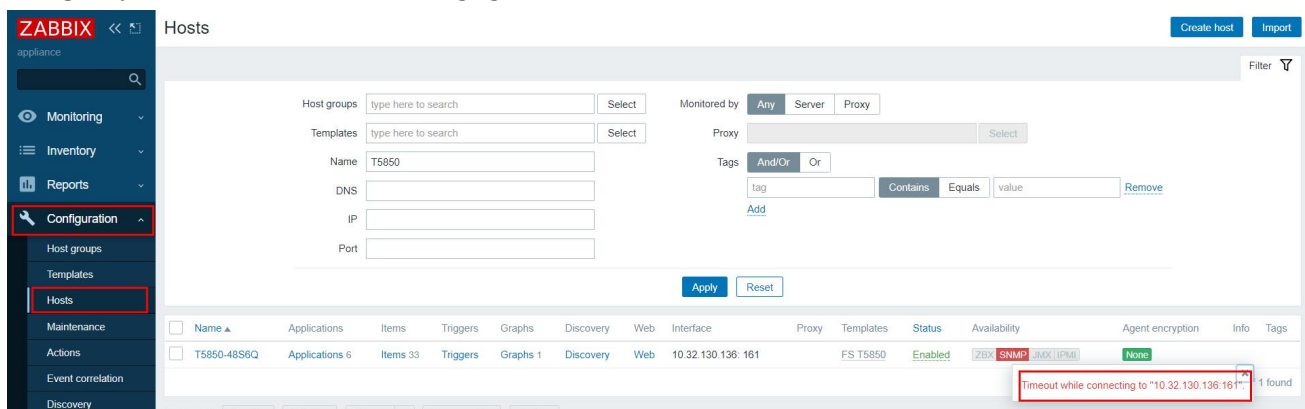
Of course, you can also configure the visualized information in the dashboard according to personal preferences.



2.4 FAQ

2.4.1 Monitor Host Failed

Due to the configuration of the SNMP community name of the switch(case-sensitive), the switch may not be monitored and managed by Zabbix, as shown in the following figure:



Pls refer to below solution:

Step 1: View and record the Zabbix host SNMP community name configuration.

ZABBIX << >> **Hosts**

appliance

All hosts / T5850-48S6Q Enabled Zabbix SNMP JMX IPMI Applications 6 Items 33 Triggers Graphs 1 Discovery rules Web scenarios

Host Templates 1 IPMI Tags Macros 1 Inventory Encryption

* Host name T5850-48S6Q

Visible name T5850-48S6Q

* Groups FS T5850 x Select

type here to search

Interfaces	Type	IP address	DNS name	Connect to	Port	Default
SNMP		10.32.130.136		IP DNS	161	☒ Remove

SNMP version SNMPv2 v

* SNMP community (\$SNMP_COMMUNITY)

☐ Use bulk requests

Add

Description

Monitored by proxy (no proxy) v

Enabled ☒

Update Clone Full clone Delete Cancel

Hosts

All hosts T5850-48S6Q Enabled Zabbix SNMP JMX IPMI Applications 6 Items 33 Triggers Graphs 1 Discovery rules Web scenarios

Host Templates 1 IPMI Tags Macros 1 Inventory Encryption

Host macros Inherited and host macros 1

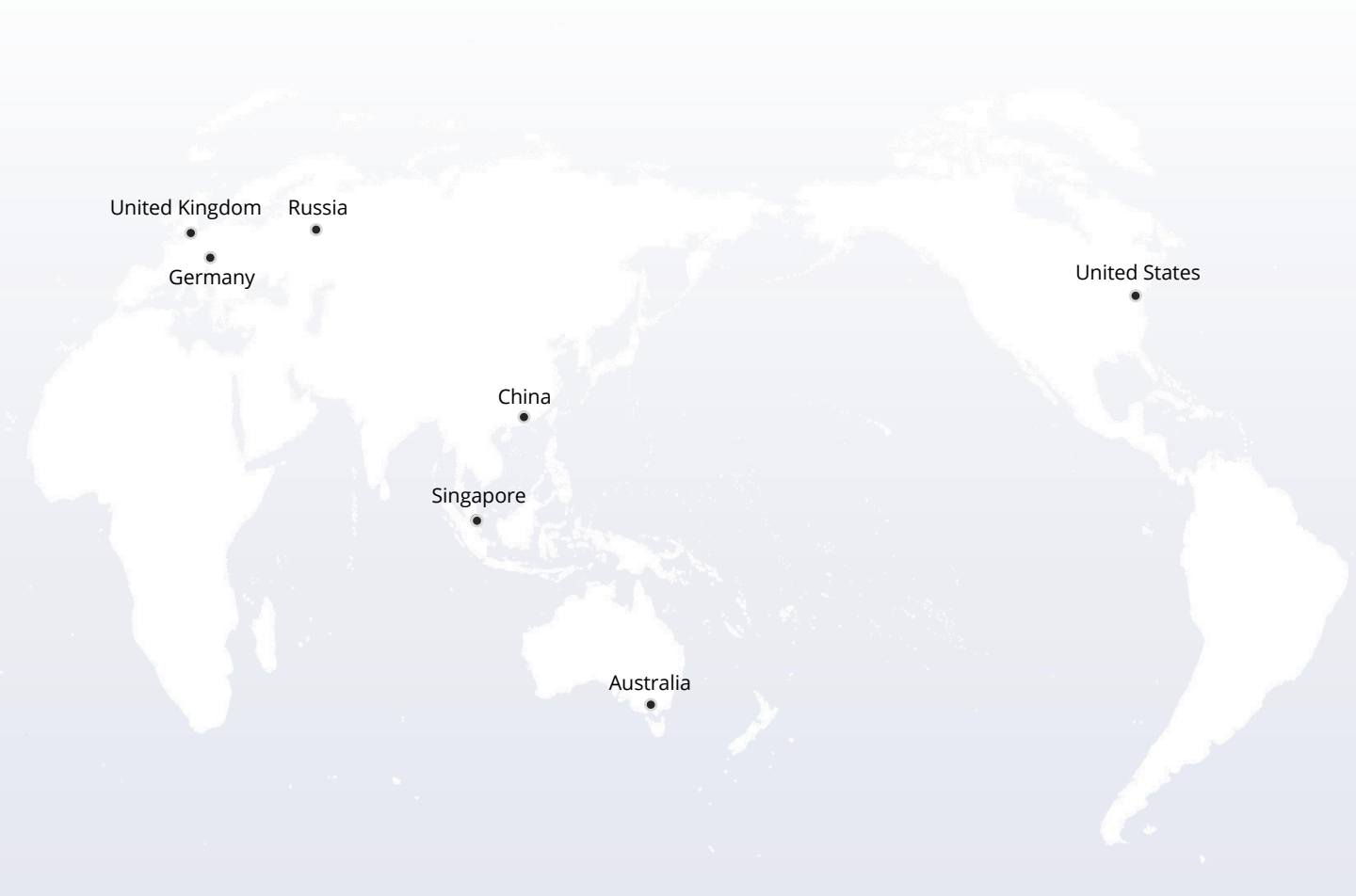
Macro	Effective value	Template value	Global value (configure)
(\$SNMP_COMMUNITY)	Public	T	public

description

Add

Update Clone Full clone Delete Cancel

Step 2: Check whether the SNMP community name configuration of the switch is consistent with the Zabbix host SNMP community name configuration.



 <https://www.fs.com>



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