

# Configure Zabbix to Monitor M Series Platforms via SNMP

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Applicable Models: M6200 Series / M6500 Series / M6800 Series

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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 device. This document will guide you to import the FS template in Zabbix and apply the template to monitor the FS OTN Platform. 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 M6200 template as an example to monitor the M6200-CH2U.

## 2. Operation Guide

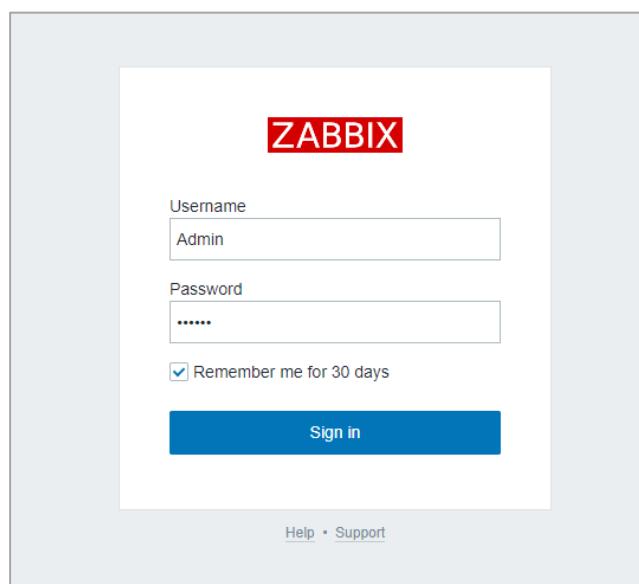
### 2.1 Operation Steps

- Log in to Zabbix to import the M6200-CH2U template
- Create host group M6200-2U and link M6200-CH2U template
- Create host, link M6200-2U host group, link M6200-CH2U template
- Monitor host data

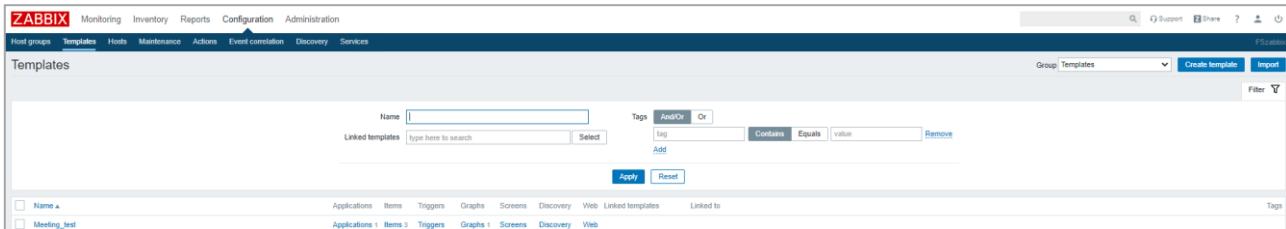
### 2.2 Operation Process

#### 2.2.1 Log in to Zabbix to import templates

Step 1: Open Zabbix login interface and enter the user name and password to log in to the Zabbix software.

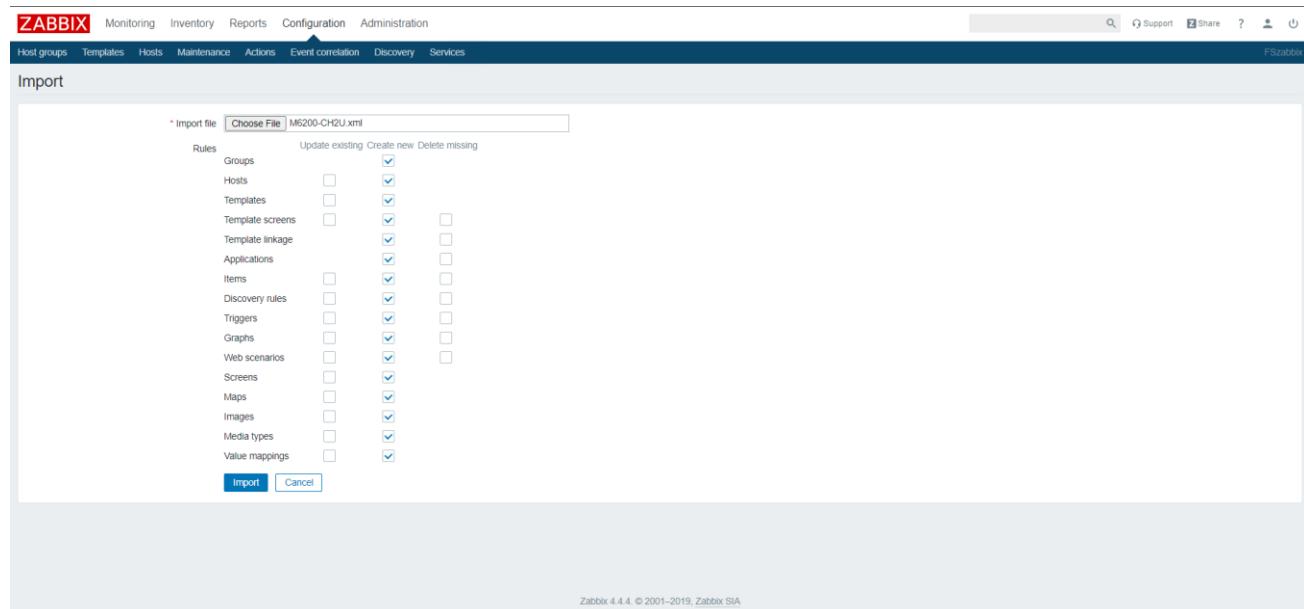


Step 2: Select the "*Templates*" under Configuration category, and click "*Import*" in the upper right corner to enter the template import interface.

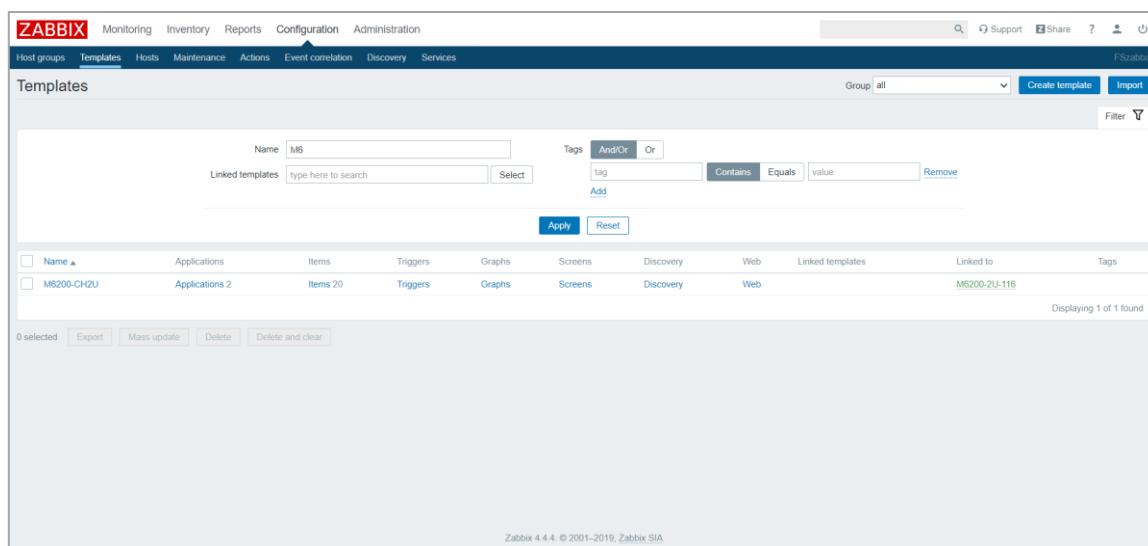


The screenshot shows the Zabbix Configuration interface under the 'Templates' tab. A search bar at the top allows filtering by 'Name' or 'Tags'. Below the search bar, there's a table listing templates. One template, 'Meeting\_test', is visible in the list.

Step 3: Select the 'M6200-CH2U.xml' file, click the "Import" button to import it, and then you can see the M6200-CH2U templates that have been successfully imported in the template list after the import success is displayed.



The screenshot shows the 'Import' dialog in Zabbix. It displays a list of items to update or create, including Groups, Hosts, Templates, Template screens, and others. The 'Templates' row has a checked checkbox under 'Create new'. At the bottom, there are 'Import' and 'Cancel' buttons.



The screenshot shows the Zabbix Configuration interface under the 'Templates' tab. A search bar at the top allows filtering by 'Name' or 'Tags'. Below the search bar, there's a table listing templates. One template, 'M6200-CH2U', is visible in the list.

### Note:

Due to the upgrade version of zabbix , the name of the public template provided by zabbix may change. The template provided by FS refers to the public template "Template Module Interfaces SNMPv2". During the template

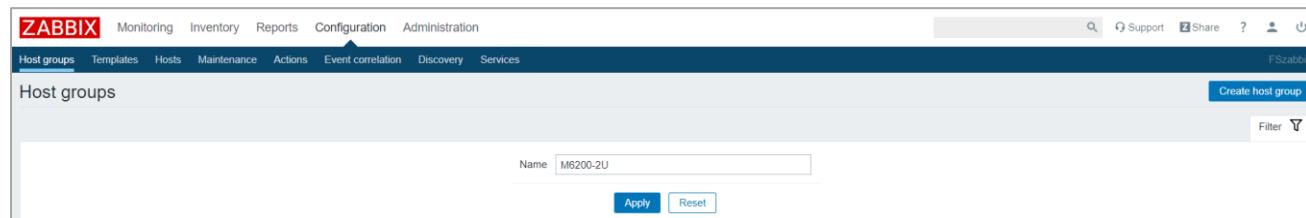
import process, if the import fails, it prompts that the template is not found.

**The solution is as follows :**

1. Search for the keyword "Interfaces SNMP" in zabbix, find the template, and record the template name;
2. Edit the template in text mode and replace "Template Module Interfaces SNMPv2" with the searched template name;
3. Save the modified template and re-import the template.

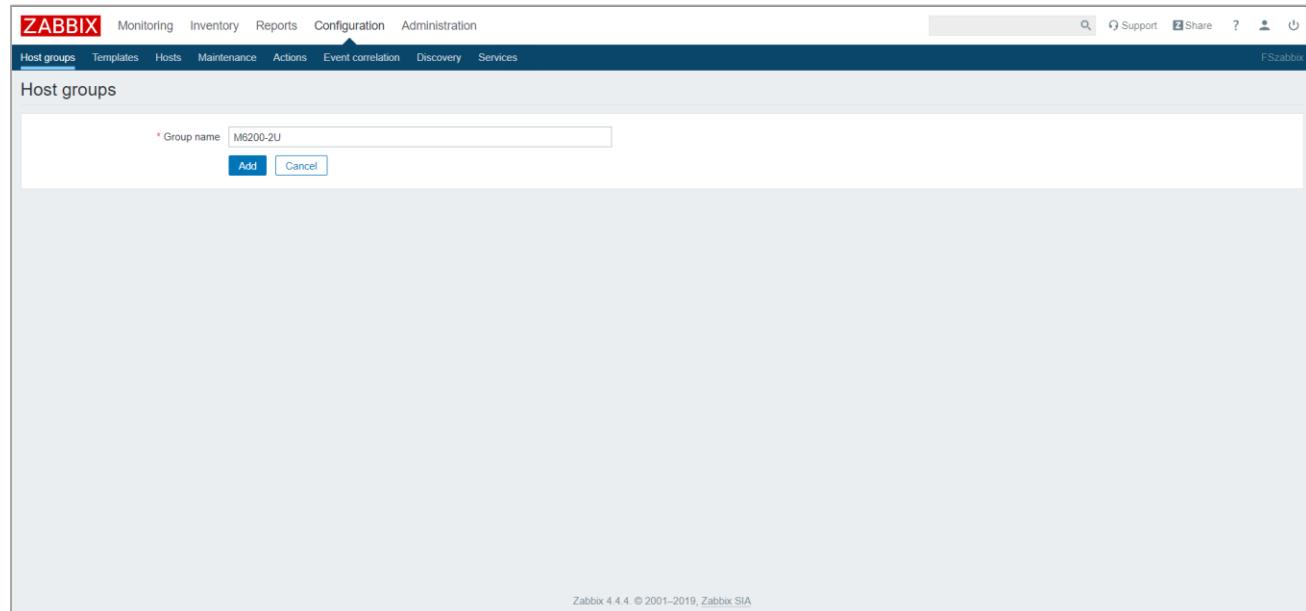
### 2.2.2 Create Host groups

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

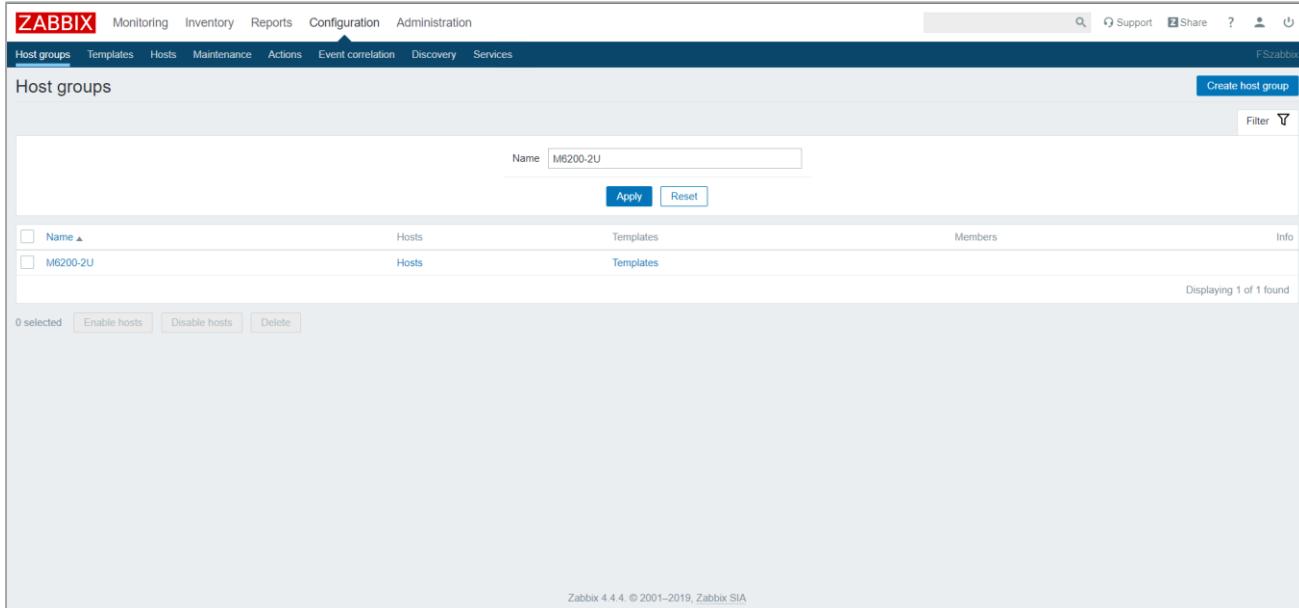


The screenshot shows the Zabbix web interface with the 'Host groups' tab selected in the top navigation bar. In the main content area, there is a form for creating a new host group. The 'Name' field contains 'M6200-2U'. Below the form are 'Apply' and 'Reset' buttons. To the right of the form is a 'Create host group' button. A 'Filter' dropdown menu is also visible.

Step 2: Create a host group named 'M6200-2U' host group, then view the successfully created host group.



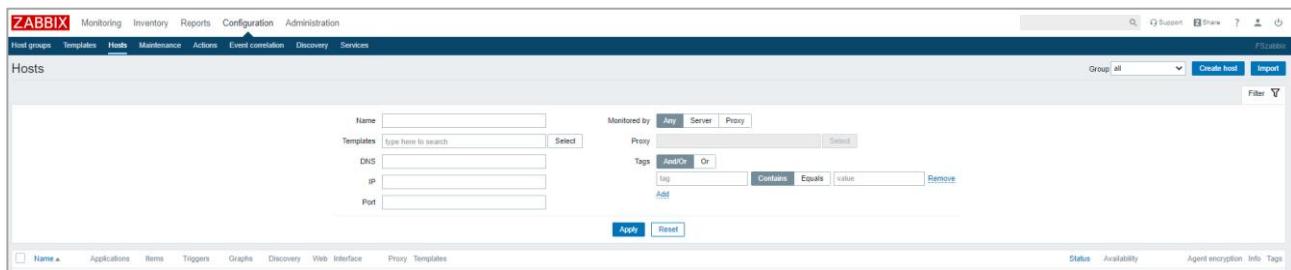
The screenshot shows the Zabbix web interface with the 'Host groups' tab selected. The newly created host group 'M6200-2U' is now listed in the main content area. At the bottom of the page, a footer note reads 'Zabbix 4.4.4. © 2001–2019, Zabbix SIA'.



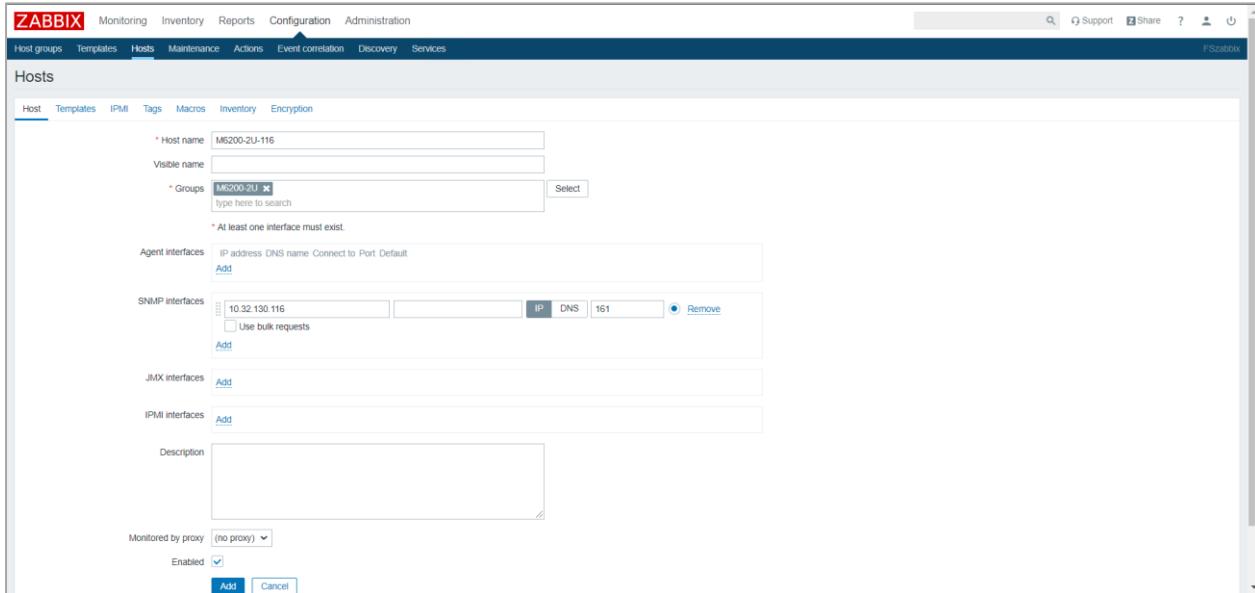
Zabbix 4.4.4. © 2001–2019, Zabbix SIA

### 2.2.3 Create Hosts

Step 1: Enter “[Hosts](#)” page under “[Configuration](#)”, click on the “[Create Host](#)” button in the upper right corner to create the host.

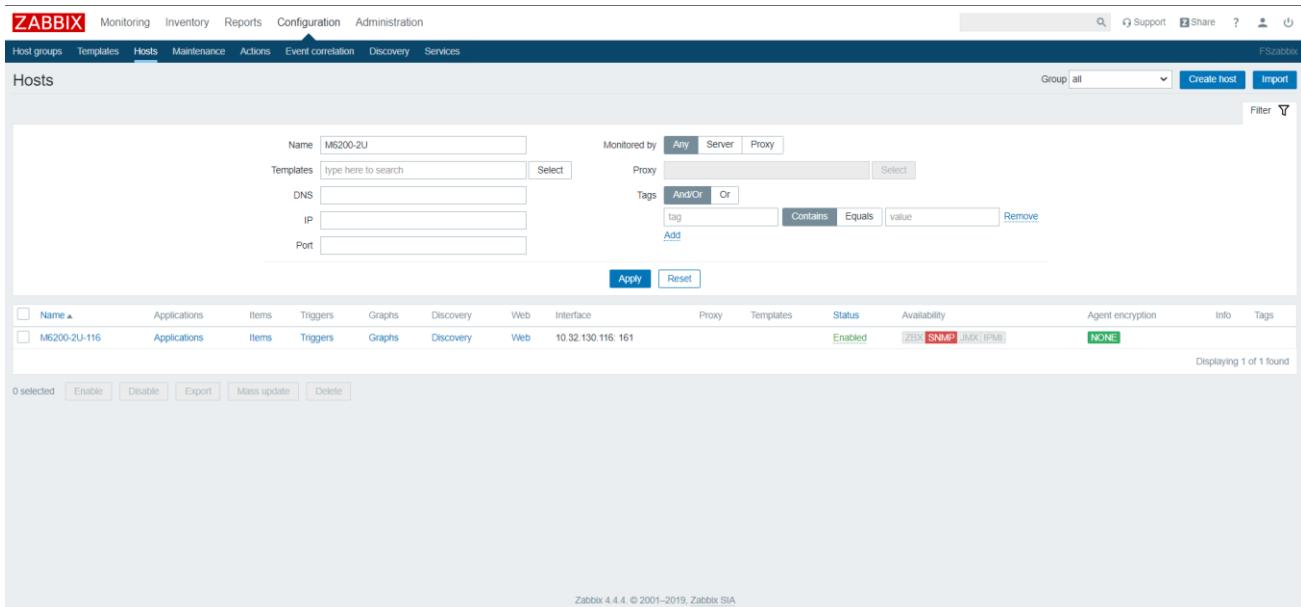


Step 2: Create a host named M6200-2U-116, select the M6200-2U host group, enter the management IP address of the switch in the SNMP interfaces, remove the check box before Use bulk requests, and click Add.



The screenshot shows the 'Hosts' configuration page in Zabbix. The host name is set to 'M6200-2U-116'. It belongs to the 'M6200-2U' group. There is one SNMP interface defined with IP 10.32.130.116 and port 161. The host is monitored by proxy ('no proxy') and is enabled.

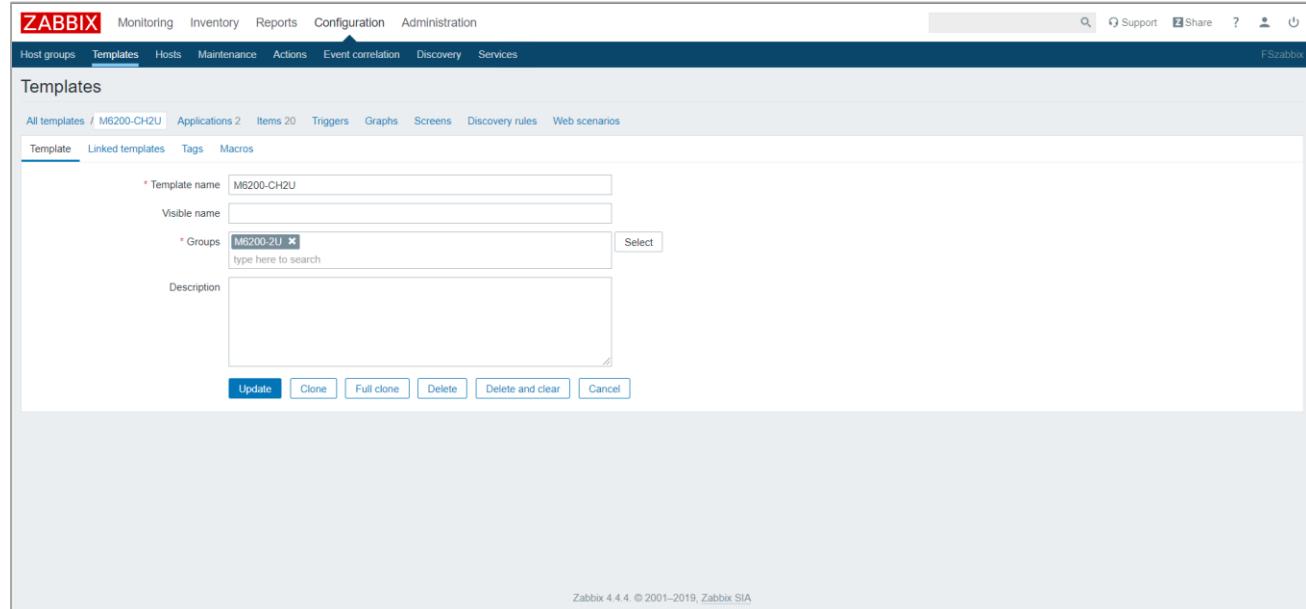
Step 3: You can view the created hosts under the host list.



The screenshot shows the 'Hosts' list page in Zabbix. A single host, 'M6200-2U-116', is listed. It has the name 'M6200-2U', IP '10.32.130.116', and port '161'. The status is 'Enabled' and it uses 'SNMP' monitoring. The 'Agent encryption' field is set to 'NONE'.

## 2.2.4 Link Template and Host Group

Step 1: Link the M6200-2U host group in the M6200-CH2U template



ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

Templates

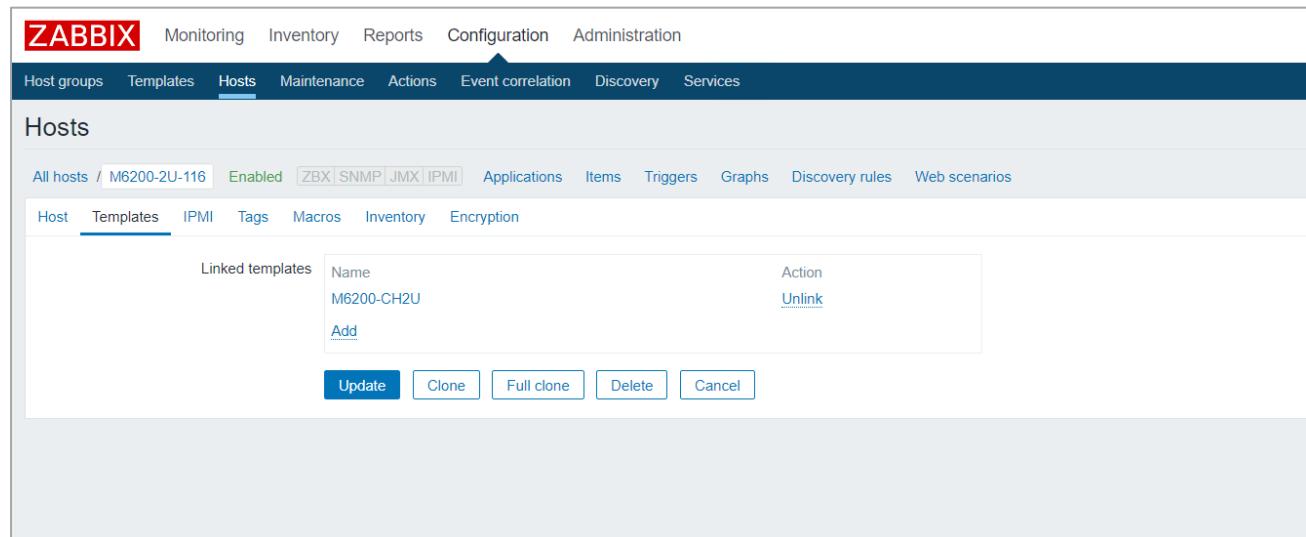
All templates / M6200-CH2U Applications 2 Items 20 Triggers Graphs Screens Discovery rules Web scenarios

Template Linked templates Tags Macros

\* Template name: M6200-CH2U  
 Visible name:  
 \* Groups: M6200-2U   
 Description:

Zabbix 4.4.4. © 2001–2019, Zabbix SIA

Step 2: Link M6200-CH2U template under M6200-2U-116 host.



ZABBIX Monitoring Inventory Reports Configuration Administration

Host groups Templates Hosts Maintenance Actions Event correlation Discovery Services

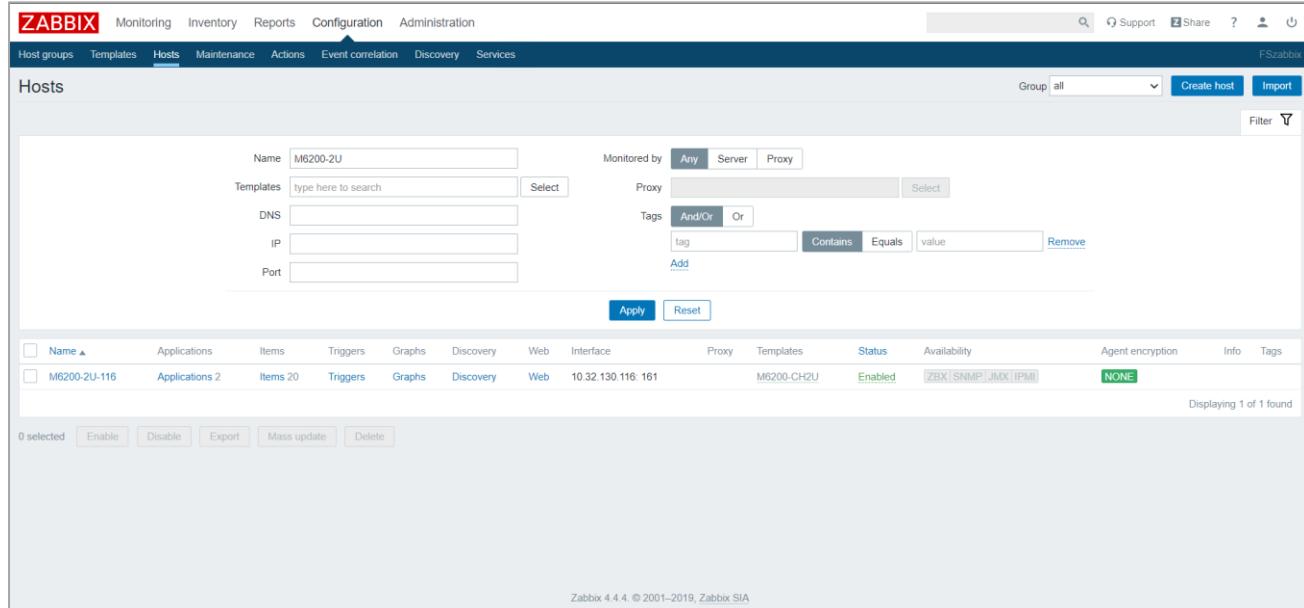
Hosts

All hosts / M6200-2U-116 Enabled ZBX|SNMP|JMX|IPMI Applications Items Triggers Graphs Discovery rules Web scenarios

Host Templates IPMI Tags Macros Inventory Encryption

Linked templates	Name	Action
	M6200-CH2U	<a href="#">Unlink</a>
<a href="#">Add</a>		

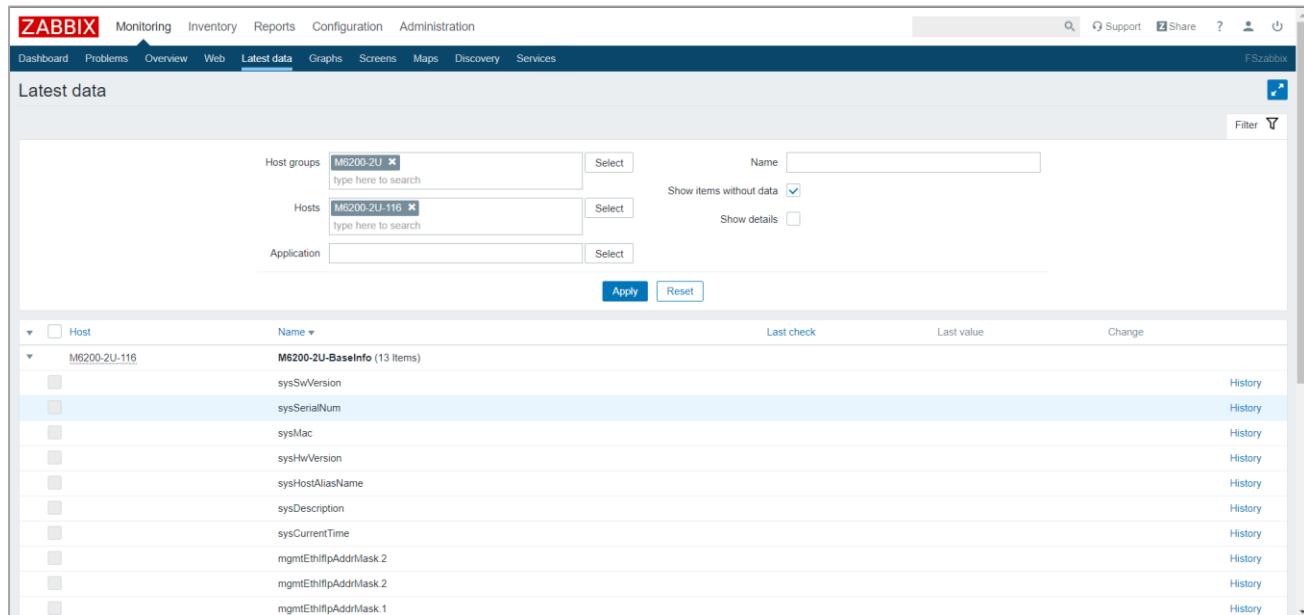
Step 3: Return to the host interface, you can view the information that has been linked to the template in the host.



The screenshot shows the Zabbix 4.4.4 hosts configuration interface. At the top, there are tabs for Monitoring, Inventory, Reports, Configuration, Administration, Host groups, Templates, Hosts, Maintenance, Actions, Event correlation, Discovery, and Services. The 'Hosts' tab is selected. In the main area, there is a search bar with 'Support', 'Share', and a user icon. Below the search bar, there are fields for 'Name' (M6200-2U), 'Monitored by' (Any, Server, Proxy), 'Templates' (search bar and 'Select' button), 'Proxy' (search bar and 'Select' button), 'Tags' (And/Or, Or, 'Add' button), and 'DNS', 'IP', 'Port' fields. Below these are 'Apply' and 'Reset' buttons. A table lists one host: M6200-2U-116, Applications 2, Items 20, Triggers, Graphs, Discovery, Web, Interface, Proxy, Templates, Status (Enabled), Availability (ZBX|SNMP|JMX|IPMI), and Agent encryption (NONE). At the bottom, there are buttons for 'Enable', 'Disable', 'Export', 'Mass update', and 'Delete'. A note says 'Displaying 1 of 1 found'.

## 2.2.5 Monitoring WDM/OTN Platform Data

Select M6200-2U Host groups and M6200-2U-116 Hosts, you can view that Zabbix has monitored the relevant information and data of the OTN Platform M6200-CH2U .



The screenshot shows the Zabbix 4.4.4 latest data interface. At the top, there are tabs for Dashboard, Problems, Overview, Web, Latest data, Graphs, Screens, Maps, Discovery, and Services. The 'Latest data' tab is selected. In the main area, there are search bars for 'Host groups' (M6200-2U) and 'Hosts' (M6200-2U-116), and a 'Name' field. There are checkboxes for 'Show items without data' (checked) and 'Show details' (unchecked). Below these are 'Apply' and 'Reset' buttons. A table lists monitoring details for the selected hosts. For M6200-2U-116, it shows 'M6200-2U-BaseInfo (13 Items)' with items like sysSwVersion, sysSerialNum, sysMac, sysHwVersion, sysHostAliasName, sysDescription, sysCurrentTime, mgmtEthifIpAddrMask.2, mgmtEthifIpAddrMask.2, and mgmtEthifIpAddrMask.1, along with their last check times and last values. History links are provided for each item.

## 2.3 Zabbix Personalized Customization

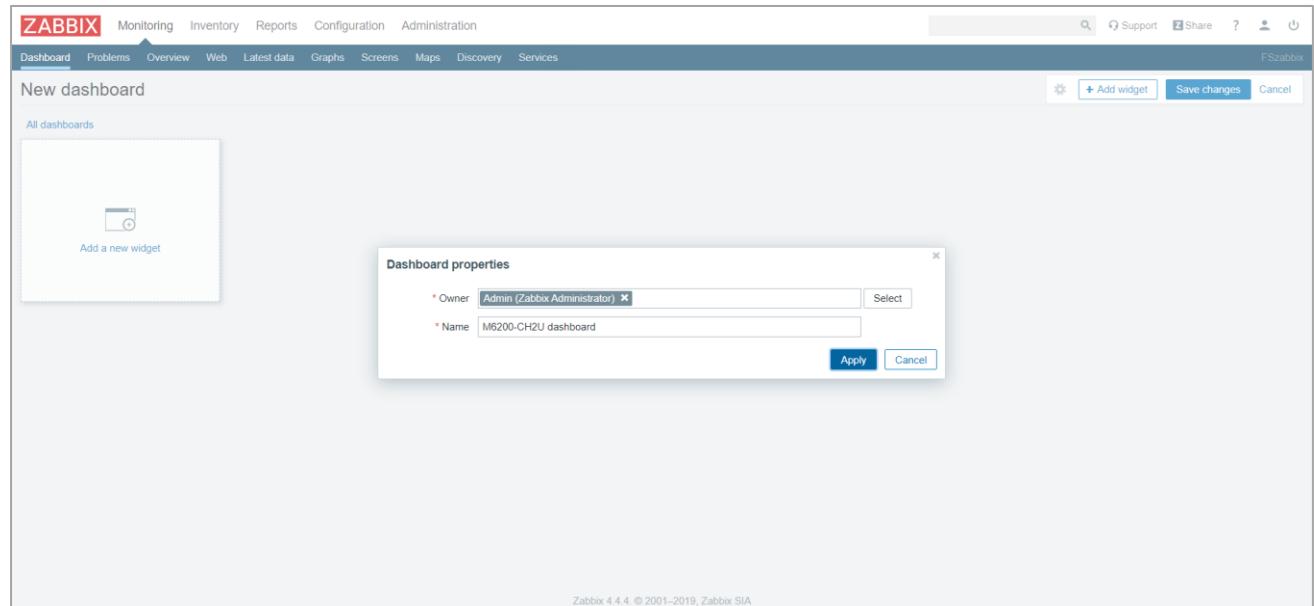
Zabbix's Dashboard can display visualized information and data (overview, map, chart, clock, etc.). Here we take the

creation of CPU utilization as an example.

Step 1: Click “[Create dashboard](#)” in the upper right corner to create a dashboard.

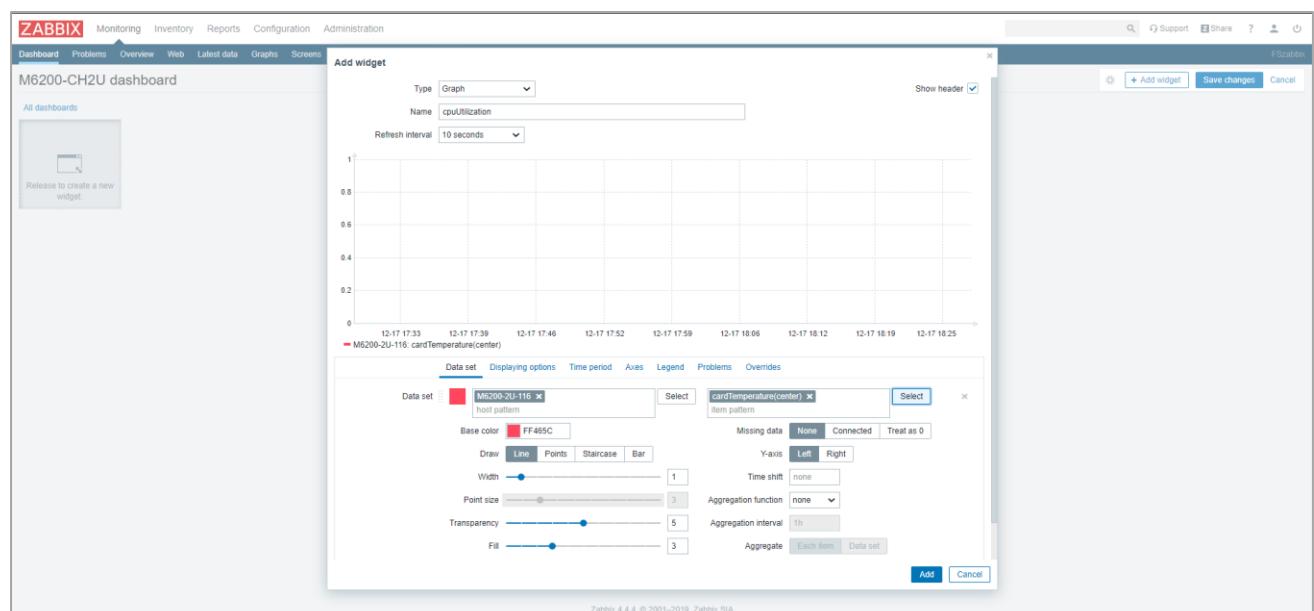


Step 2: Create a dashboard named M6200-CH2U dashboard.



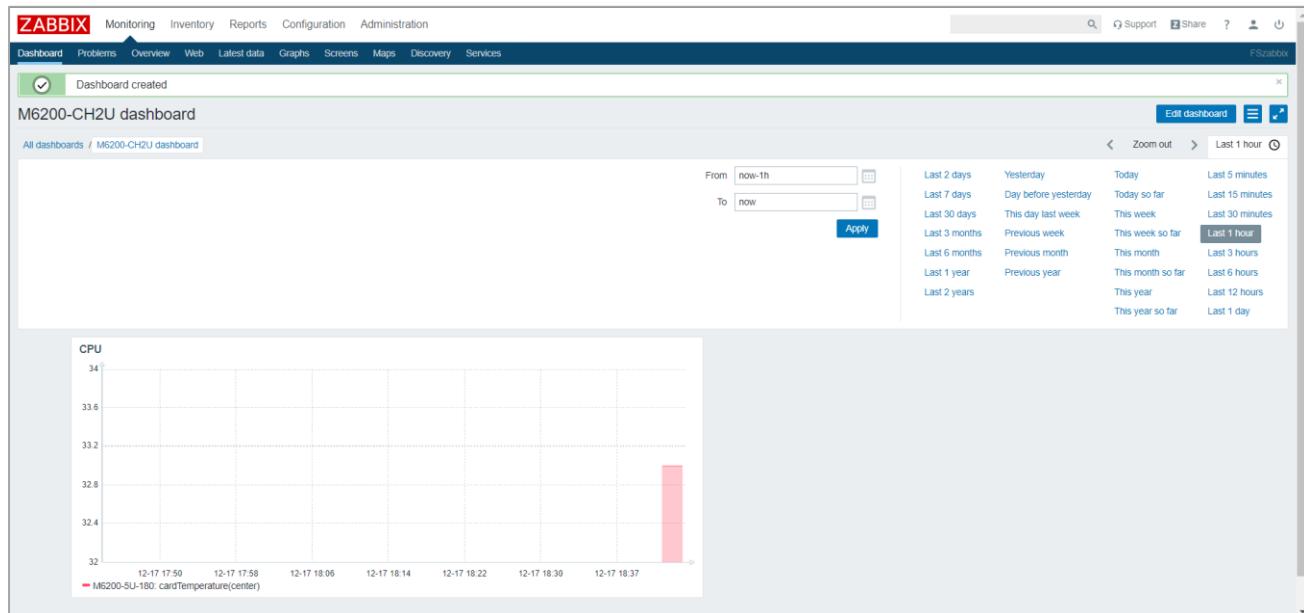
Step 3: Click anywhere on the dashboard to create a component, for example named as cpu Utilization, select

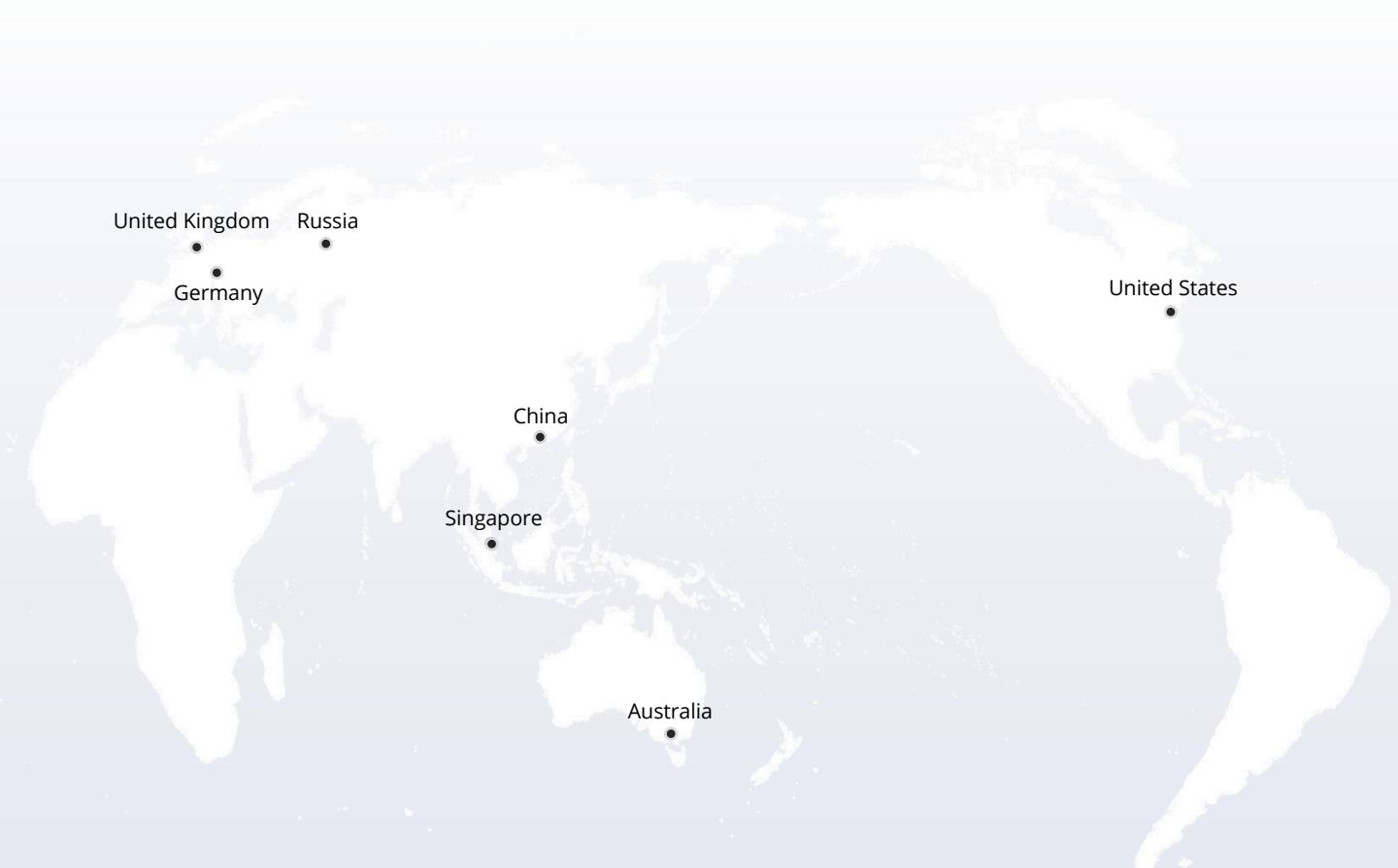
M6200-2U-116 host pattern, CPU item pattern of Data set, and click Create.



Step 4: View the created components and save the dashboard. And you can also configure the visualized information

in the dashboard according to personal preferences.





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