How to Add CISCO Switch or Router in Zabbix Server for Monitoring

Step 1: Configure SNMP on the Cisco Switch or Router

Configure SNMPv2c on Cisco routers and switches with one command as shown below:

```
switch> enable
switch# configure terminal
switch(config)# snmp-server community MyCommunity RO
switch(config)# exit
switch# copy running-config startup-config
```

Run the following Net-SNMP command from Linux machine to **verify that SNMP is working as configured** on the device:

```
snmpwalk -v2c -c MyCommunity 192.168.1.1 1.3.6.1.2.1.1.1
iso.3.6.1.2.1.1.1.0 = STRING: "Cisco IOS Software, Catalyst 4500 L3 Switch
Software (cat4500-ENTSERVICESK9-M), Version 12.2(54)SG1, RELEASE SOFTWARE
(fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2011 by Cisco Systems, Inc.
Compiled Thu 27-Jan-11 11:39 "
```

Step 2: Change global SNMP community string for all devices

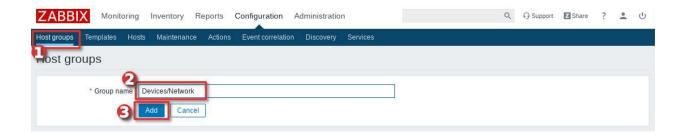
Zabbix needs SNMP community string to retrieve data from SNMP enabled devices. A community string is like a password. Global SNMP community string in Zabbix is "public" and if you are using something else than you need to change it.

You can change community string for all devices by changing value for macro "{\$SNMP_COMMUNITY}" under **Administration**→**General**→**Macros** just as shown in the picture below.



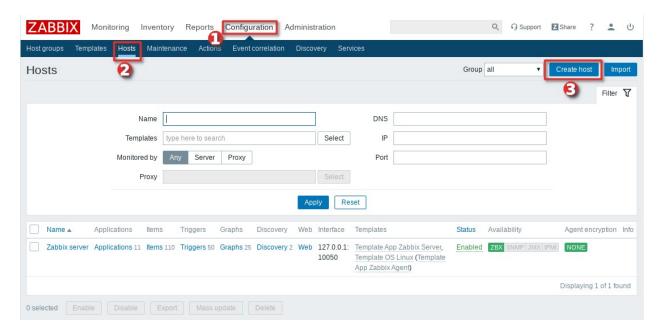
Step 3: Create hostgroup for Network devices

You can add a host to some existing hostgroup or you can create new hostgroups for your devices. I will create hostgroup "Devices/Network":

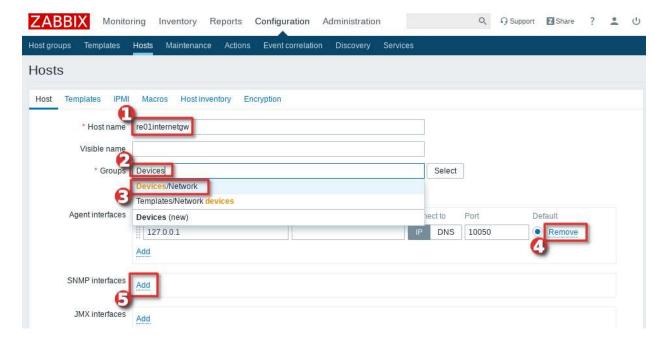


Step 4: Add host to Zabbix with appropriate SNMP template

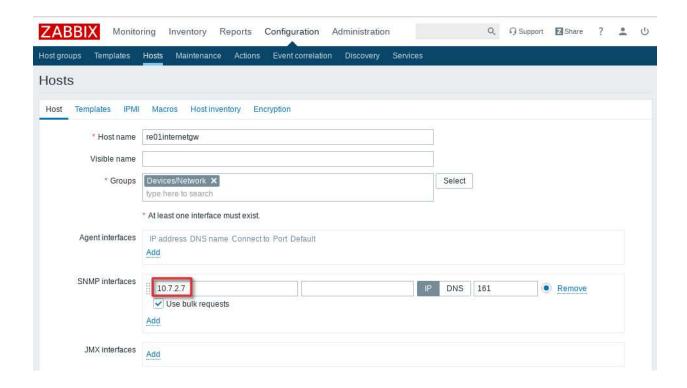
Go to "Host" menu under "Configuration" tab and then click "Create host" option to create a host in Zabbix:



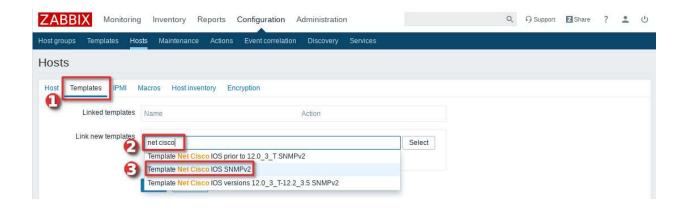
Define "Hostname" and set "Groups" using your newly created hostgroup. Then remove "Agent interfaces" (because we can't use Zabbix agent on router or switch) and add "SNMP interfaces":



Under the "SNMP interfaces" set the management IP address or DNS name of the device:



Then switch to tab "Templates" and choose the appropriate template for your Cisco device under section "Link new template" by typing "net cisco". Use "Template Net Cisco IOS SNMPv2" if you are not sure what to choose:



After you have selected appropriate template click little "Add" button to link the template with the device and then press the big "Add" button:

