HOW TO USE SNMPCOLLECTOR

Basic Guide for General Use CA TECHNOLOGIES

Documentation and Requirements

- Release Notes
 - Be sure to read all of the release notes.
 - This page includes software and hardware requirements, as well as recommended memory settings and performance and scalability considerations
- Snmpcollector 3.0 Admin Console Configuration
- Snmpcollector 2.2 Admin Console Configuration
- <u>Snmpcollector Theory of Operations</u>
- Snmpcollector Device Support
- <u>Snmpcollector Metrics</u>
- Snmpcollector APIs

- Snmpcollector should be on its own hub with minimal other components.
- This image shows all of the components on my secondary snmpcollectordesignated hub, called snmpcRobot. The probe can have a very high memory usage and we recommend using a separate server to run it.
- Besides robot/snmpcollector related probes, we also want discovery_agent deployed here, so that we can organize discovered devices for monitoring.
- Note if integrating with NFA, the secondary hub running snmpcollector must have the same Origin as the primary hub.

snmpcRobot

Type: Regular

Address: /Domain83/snmpcHub/snmpcRobot

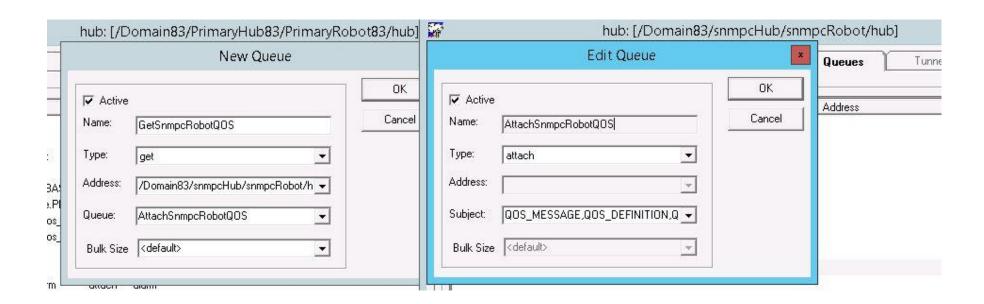
IP: 10.130.230.76

OS Major: Windows
OS Minor: Windows Server

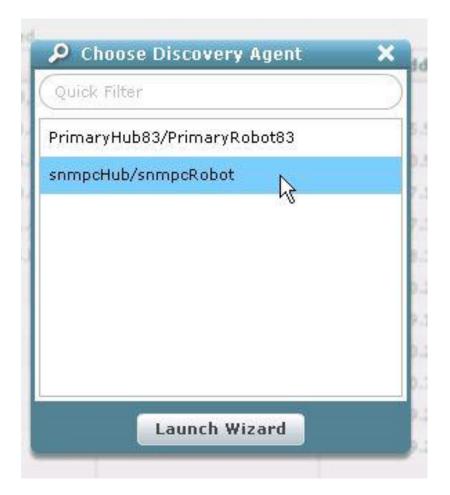
OS Description: Service Pack 1 I

Installed Packages		Environment Variables		/ariables		
P I ♣ I C						
Probe 📤	Port	PID	Version	Description	Category	Last Start
alarm_enrichment	48009	3168	4.73	Alarm Enrichment Server	Infrastructure	Thu Sep 3 2015 12:56:50 PM
baseline_engine	48010	3400	2.60	Baseline Engine	SLM	Thu Sep 3 2015 12:56:53 PM
cdm	48015	1164	5.50	CPU, Disk and Memory performa	System	Thu Sep 3 2015 12:57:00 PM
controller	48000	5000	7.80	Robot process and port controller	Infrastructure	Thu Sep 3 2015 12:56:39 PM
discovery_agent	48008	140	8.31	Discovery Agent	Service	Thu Sep 3 2015 12:56:49 PM
hdb	48007	4852	7.80	Robot database server	Infrastructure	Thu Sep 3 2015 12:56:47 PM
hub	48002	1808	7.80	Message concentrator and redistr	Infrastructure	Thu Sep 3 2015 12:56:40 PM
nas	48014	4284	4.73	Nimsoft Alarm Server	Infrastructure	Thu Sep 3 2015 12:56:59 PM
pollagent	48012	3620	2.23	Polling Agent Probe	Network	Thu Sep 3 2015 12:56:55 PM
ppm	48011	1212	3.22	Probe Provisioning Manager	Service	Thu Sep 3 2015 12:56:54 PM
prediction_engine	48016	4632	1.31	Prediction Engine	SLM	Thu Sep 3 2015 12:57:09 PM
snmpcollector	48013	372	2.23	SNMP Collector Engine Probe	Network	Thu Sep 3 2015 12:56:56 PM
spooler	48001		7.80	Robot message spooler	Infrastructure	

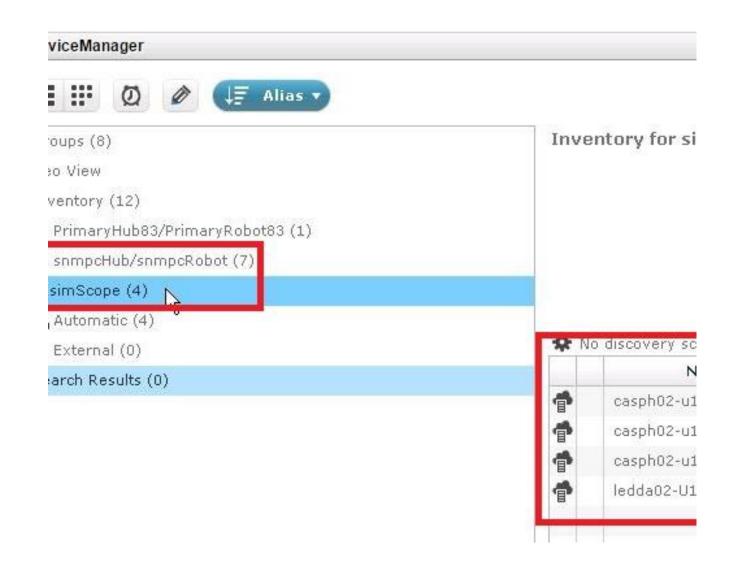
- A queue needs to be setup from the secondary hub to the primary hub.
- The queue will need the following subject 'QOS_MESSAGE,QOS_DEFINITION,QOS_BASELINE'.
- It may be called whatever you wish, just make sure that you have an attach/get (with GET queue on primary) setup
- Check out the attach/get queue I setup between my snmpcRobot-hub and the PrimaryRobot83-hub. You may use a 'post' setup.



- Using the discovery_agent deployed on the snmpcollector hub, run the Discovery Wizard in USM.
- Add snmp credentials and individual IPs or IP ranges to discover the devices you want to monitor.
- More info on Discovery Wizard



- Once that's done, reload USM and check to see that these devices show under the discovery_agent you used.
- You can see the four devices I discovered appear under the 'simScope' range I created when working through the Discovery Wizard.



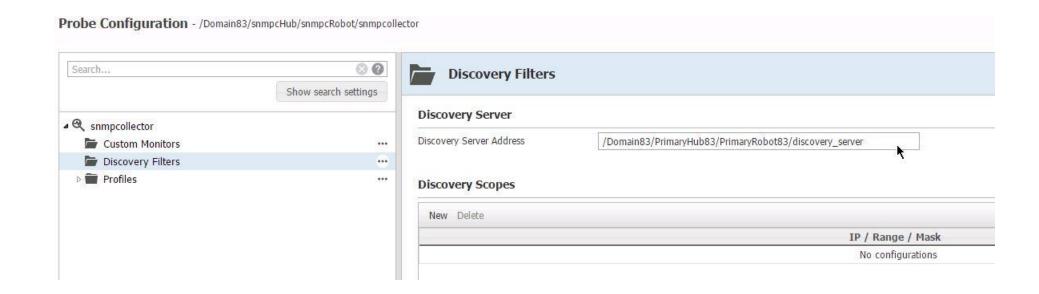
- The next check is to see if the newly discovered devices have a **KEY** symbol in the last column displaying in USM.
- If the key symbol is missing, it was likely just discovered using ICMP (ping). The key indicates that the snmp credentials have been verified.
- Snmpcollector will not be able to see or configure devices without verified snmp credentials.



Import discovered devices in Admin Console

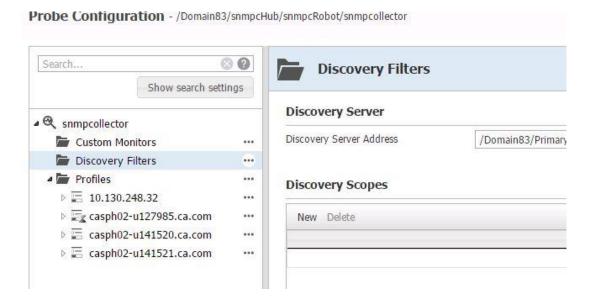
- In Admin Console, click on the snmpcollector and select 'configure'
- Next, navigate to 'Discovery Filters' and make sure that the Discovery Server address is correct

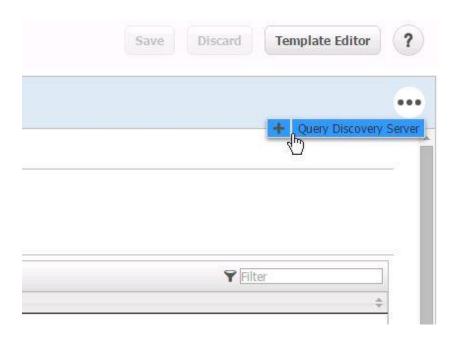




Import discovered devices in Admin Console

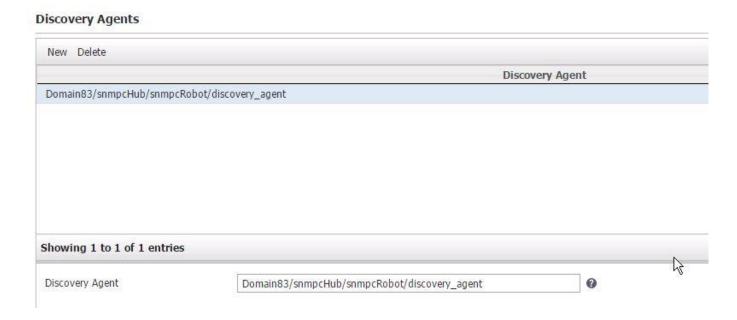
- Using the Options button, 'Query the Discovery Server'. This will import devices that have been discovered to snmpcollector's configuration.
- Once this is complete, those devices should show up under the Profiles folder.



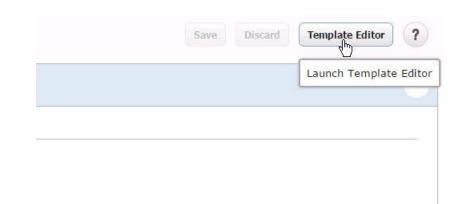


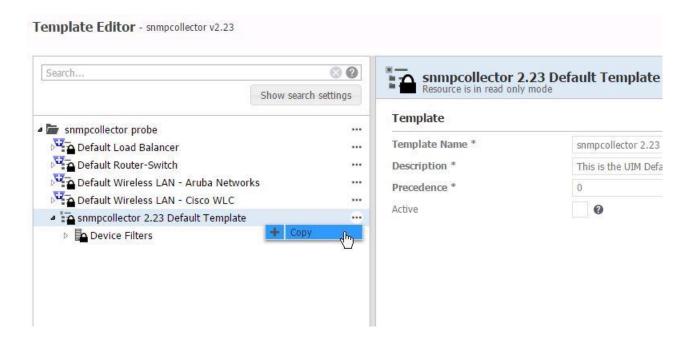
Import discovered devices in Admin Console

- Use the filters on the page to limit which devices appear i.e. 'Discovery Agents'.
- This is why we used a specific discovery_agent to discover these devices. Devices discovered by other agents will not be shown once the filter is applied.

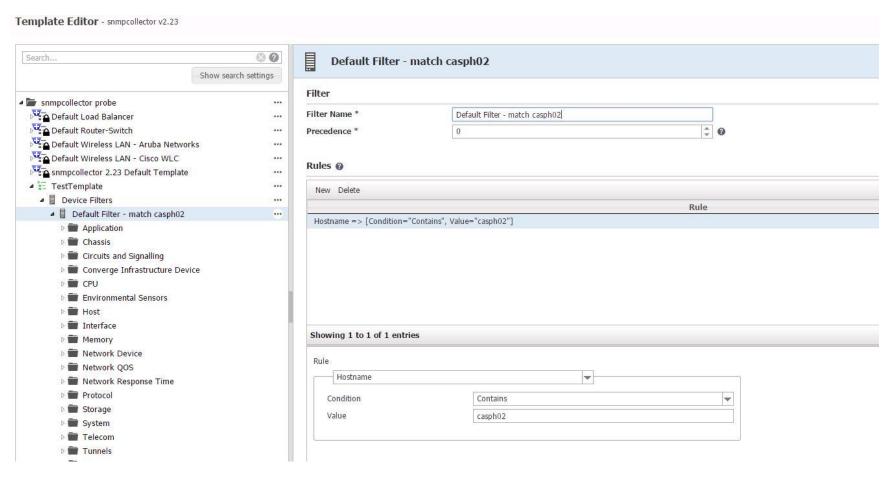


- Click on the Template Editor button to get started configuring monitors that will apply to your discovered devices.
- Copy the default template (default cannot be edited).
 Rename it and add a relevant description. Set it to Active, then click Submit.

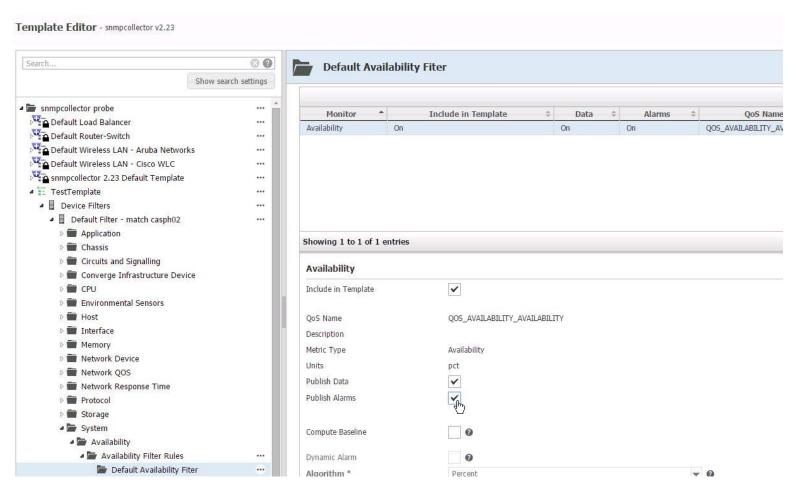




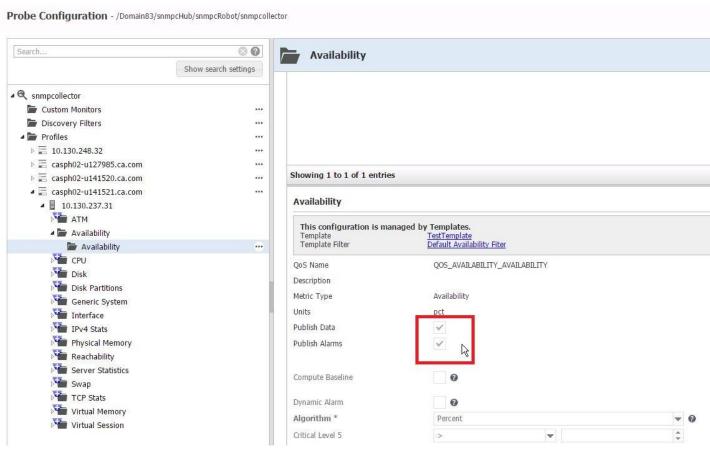
- Expanding the new template's tree menu, navigate the default filter and add a new rule so that it only applies to the devices you intend.
- I created a filter to only include devices that contain 'casph02'. I discovered four devices, but only three with casph02 in the hostname.
- Add an appropriate name and click Save. This template should now be applied to my 'casph02' devices.



- In the new template, navigate down the menu to add or modify which monitors are being used and how.
- Once completed, click Save and close the tab. In the example below, I wanted to enable publishing of alarms and data for issues related to availability.



- Navigate back to the snmpcollector's main configuration tab and reload the page.
- Using a device that the template applies to, navigate down to the metric and see that it has updated.
- The options here are greyed out from this view the template editor modifies these values.
- Note that the available metrics are organized differently under the devices in the main configuration page than in the template editor – i.e. 'Availability' is its own entry in the probe configuration page but is in the 'System' folder on the template editor.



- Availability is now being alarmed on for each of my devices whose hostname includes 'casph02.'
- Since the 'publish data' box was also checked, we can see QOS data in USM.

