



## Purpose

Passive check results for hosts and services that are submitted to Nagios by external agents and application using the Nagios Service Check Acceptor (NSCA) or Nagios Remote Data Processor (NRDP) APIs are not processed by the monitoring engine until they are configured in Nagios XI. This document describes how to configure monitoring of previously unconfigured hosts and services that a Nagios XI server has received passive check results for.

## Target Audience

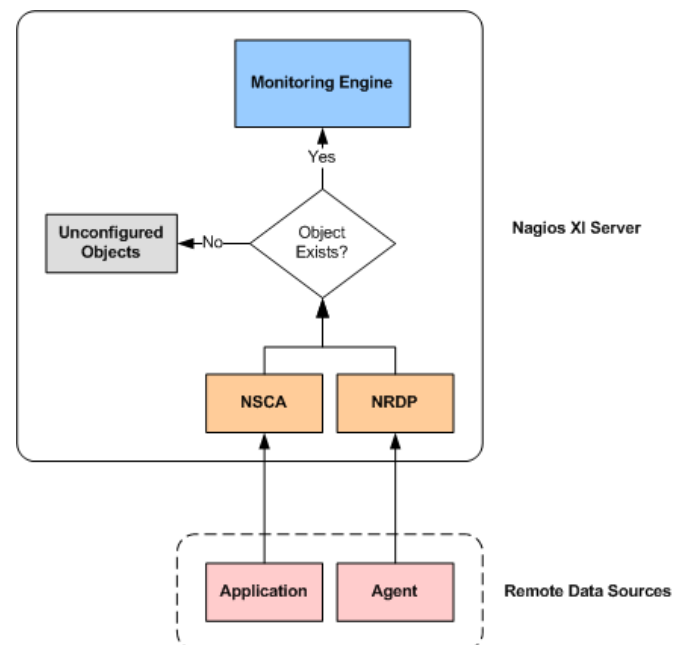
This document is intended for use by Nagios XI Administrators who want to learn how to create received passive check results into host and service objects.

## Passive Check Processing Overview

External applications and agents can submit passive host and service checks results to Nagios XI using the NSCA and/or NRDP APIs. These APIs are configured using the **Inbound Check Transfers** administrative interface in Nagios XI.

The monitoring engine only processed passive check results for the hosts and services that have been defined in its configuration. If a passive result is received for a host or service that has not yet been configured, the following happens:

- The check result is discarded/ignored by the monitoring engine
- The host and/or service will appear in the Unconfigured Objects administrative interface in Nagios XI



The Nagios XI administrator will be able to view the unconfigured host and service objects for which passive check results have arrived, and has the option of adding the unconfigured hosts and services to the monitoring engine.

The instructions outlined in the following steps demonstrate how to manage unconfigured objects and optionally add them to the monitoring engine.

## Unconfigured Objects Administration

Navigate to **Admin > Monitoring Config** and select **Unconfigured Objects**. The unconfigured objects page will list any hosts or services that Nagios has received passive results for, but which have not yet been added to the monitoring engine.

**Nagios XI** Home Views Dashboards Reports Configure Tools Help **Admin** ?

System Information  
Users  
System Config  
Monitoring Config  
Config Snapshots  
Check File Permissions  
NRDS Config Manager  
**Unconfigured Objects**  
SNMP Trap Interface  
Deadpool Settings

Check Transfers  
System Extensions  
System Backups

### Unconfigured Objects

This page shows host and services that check results have been received for, but which have not yet been configured in Nagios. Passive checks may be received by NSCA or NRDP (as defined in your [inbound transfer settings](#)) or through the direct check submission API.

You may delete unneeded host and services or add them to your monitoring configuration through this page. Note that a large amount of persistent unused passive checks can result in a performance decrease.

Unconfigured Objects Auto Configure Settings

[Clear Unconfigured Objects List](#)

<input type="checkbox"/>	Host	Service	Last Seen	Actions
	-	-	2018-04-11 05:06:43	<span style="color: red;">✖</span> <span style="color: blue;">▶</span>
		Uptime	2018-04-11 05:06:43	<span style="color: red;">✖</span>
<input type="checkbox"/>	win7-04	Drive C: Disk Usage	2018-04-11 05:06:43	<span style="color: red;">✖</span>
		Print Spooler Service	2018-04-11 05:06:43	<span style="color: red;">✖</span>
		CPU Load	2018-04-11 05:06:43	<span style="color: red;">✖</span>
		Memory Usage	2018-04-11 05:06:43	<span style="color: red;">✖</span>

With Selected: ✖


## Adding Unconfigured Objects


To add unconfigured objects to Nagios XI as host and service objects you run the **Unconfigured Passive Object** wizard. There are two ways you can run this wizard:

### Add One Host with Services

Click the play button at the top right of the list for that host.

[Clear Unconfigured Objects List](#)

<input type="checkbox"/>	Host	Service	Last Seen	Actions
	-	-	2016-11-08 11:29:02	Delete 
		Drive C: Disk Usage	2016-11-08 11:29:02	Delete
		Print Spooler Service	2016-11-08 11:29:02	Delete
<input checked="" type="checkbox"/>	win7-04	Memory Usage	2016-11-08 11:29:02	Delete
		CPU Load	2016-11-08 11:29:02	Delete
		Uptime	2016-11-08 11:29:02	Delete

With Selected: 

### Add Multiple Hosts with Services

In the list of unconfigured objects check the box for each host that you want to add. Then click the gear icon at the bottom of the list.

When the wizard starts you will be presented with a screen like the following:

## Configuration Wizard: Unconfigured Passive Object - Step 2

### Hosts

This wizard will automatically create missing object definitions for the following hosts and their associated services:

win7-04

[← Back](#)

[Next >](#)

The list of hosts that will have services created will appear in the summary list. All the hosts that will be added as part of this wizard will be created using the same settings that are defined in the different steps of the wizard such as notifications, groups, parents. Run through the wizard selecting your preferred settings and Apply.

When the configuration is successfully applied, click the **View status details for xxx** link which should direct you to a screen like the following.

Host	Service	Status	Duration	Attempt	Last Check	Status Information
win7-04	CPU Load	Ok	3m 36s	1/1	2016-11-08 12:11:51	OK: CPU load is ok.
	Drive C: Disk Usage	Ok	1m 30s	1/1	2016-11-08 12:13:57	OK C:: Total: 59.9GB - Used: 10.774GB (18%) - Free: 49.127GB (82%)
	Memory Usage	Ok	3m 43s	1/1	2016-11-08 12:11:44	OK: physical: Total: 2GB - Used: 625.363MB (30%) - Free: 1.389GB (69%), virtual: Total: 8TB - Used: 112.887MB (0%) - Free: 8TB (99%), committed: Total: 3.999GB - Used: 687.152MB (16%) - Free: 3.328GB (83%), committed: Total: 3.999GB - Used: 687.152MB (16%)
	Print Spooler Service	Ok	2m 37s	1/1	2016-11-08 12:12:50	OK: All 1 service(s) are ok.
	Uptime	Pending	N/A	1/1	N/A	No check results for service yet...

You can see from the screenshot some of the checks have already received passive check results. The Uptime check has not received a check result (*also the host object has not as it has a gray color*) but it will be updated once it does.

Once the wizard has completed, the host and it's services will not longer appear under the unconfigured objects section.

This completes the steps for adding unconfigured objects to Nagios XI. You should also read the following documentation as it goes into more detail about passive services:

[Configuring Passive Services With Nagios XI](#)

## Auto Configure Settings

The ability to automatically create monitoring objects from received passive check results was added as a feature in Nagios XI 5.5. This is not enabled by default and can be defined on the **Auto Configure Settings** tab.

The **Enable Auto Import** box needs to be checked to allow Nagios XI to automatically import the objects into Core Config Manager (CCM).

Once checked, the second option **Apply Configuration** can be enabled/disabled. When enabled, the newly imported objects will be immediately added to the running configuration of Nagios XI.

In larger deployments of Nagios XI it may be beneficial to disable this functionality, especially when you are receiving a lot of check results from new systems.

The settings that the new objects will be configured with will be determined by the selections on the **Notifications**, **Groups** and **Advanced** tabs.

On the screenshot above you can see that the notifications can be enabled, this applies to both the host and service objects. You can also select the Contacts and/or Contact Groups you want applied to these objects.

Unconfigured Objects **Auto Configure Settings**

**Enable Auto Import:**  Automatically import host/services into the CCM with templates applied below.

**Apply Configuration:**  Automatically apply configuration after import of configs.

Notifications **Groups** **Advanced**

**Notification Options:**  Send notifications for hosts and services

**Contacts:**

- Default Contact (xi\_default\_contact)
- Nagios Administrator (nagiosadmin)
- Troy Lea (troylea)

**Contact Groups:**

- All Contacts (xi\_contactgroup\_all)
- Nagios Administrators (admins)

The groups tab allows you to define what Host or Service groups will be assigned to the new objects.

🔔 Notifications
📁 Groups
⚙️ Advanced

**Host Groups:** Define which hostgroup(s) the host should belong to (if any).

Linux Servers (linux-servers)

**Service Groups:** Define which servicegroup(s) the service(s) should belong to (if any).

The **Advanced** tab allows for the stalking and volatility options to be defined as well as the template settings.

🔔 Notifications
📁 Groups
⚙️ Advanced

**Stalking:** Disabled ⓘ

**Advanced Config:**

**Host Config**

Volatility ⓘ
Non-volatil ⌵

**Service Config**

Host Template
xiwizard\_passive\_host ⌵

Service Template
xiwizard\_passive\_service ⌵

The **Host Template** and **Service Template** settings allow you to use templates to define a directives in the configs created which aren't available on these pages. For example, by default the new objects use the `xiwizard_passive_host` and `xiwizard_passive_service` templates. If you are receiving a lot of SNMP Trap passive checks you may be interested in using the `xiwizard_snmptrap_host` and `xiwizard_snmptrap_service` templates instead (they use different freshness commands).



After you've made your desired selections click the **Update Settings** button to save the changes.

The processing of unconfigured objects and automatically importing them into CCM occurs every 60 seconds as part of the Nagios XI background processes.

## Removing Unconfigured Objects

If there are unconfigured objects that you don't want to add to Nagios XI you can remove them from the list. There are three ways you can do this:

### Remove All

Click the **Clear Unconfigured Objects List** link at the top of the list.

### Remove One Host with Services

Click the Delete link at the top right of the list for that host. You can also delete individual services as you might not want a specific service to be added when running the wizard.

### Remove Multiple Hosts with Services

In the list of unconfigured objects **check** the box for each host that you want to remove. Then click the **X** icon at the bottom of the list.

**Note:** Deleted objects will re-appear later if more passive results are received for them. It is suggested that you stop the incoming unwanted passive check results to Nagios XI, they are logged in the `nagios.log` file which in turn consumes disk space over time.

<input type="checkbox"/>	Host	Service	Last Seen	Actions
	-	-	2016-11-08 11:29:02	<a href="#">Delete</a>
		Drive C: Disk Usage	2016-11-08 11:29:02	<a href="#">Delete</a>
		Print Spooler Service	2016-11-08 11:29:02	<a href="#">Delete</a>
<input type="checkbox"/>	win7-04	Memory Usage	2016-11-08 11:29:02	<a href="#">Delete</a>
		CPU Load	2016-11-08 11:29:02	<a href="#">Delete</a>
		Uptime	2016-11-08 11:29:02	<a href="#">Delete</a>

With Selected:

## Finishing Up

This completes the documentation on monitoring unconfigured objects in Nagios XI.

If you have additional questions or other support related questions, please visit us at our Nagios Support Forums:

<https://support.nagios.com/forum>

The Nagios Support Knowledgebase is also a great support resource:

<https://support.nagios.com/kb>