

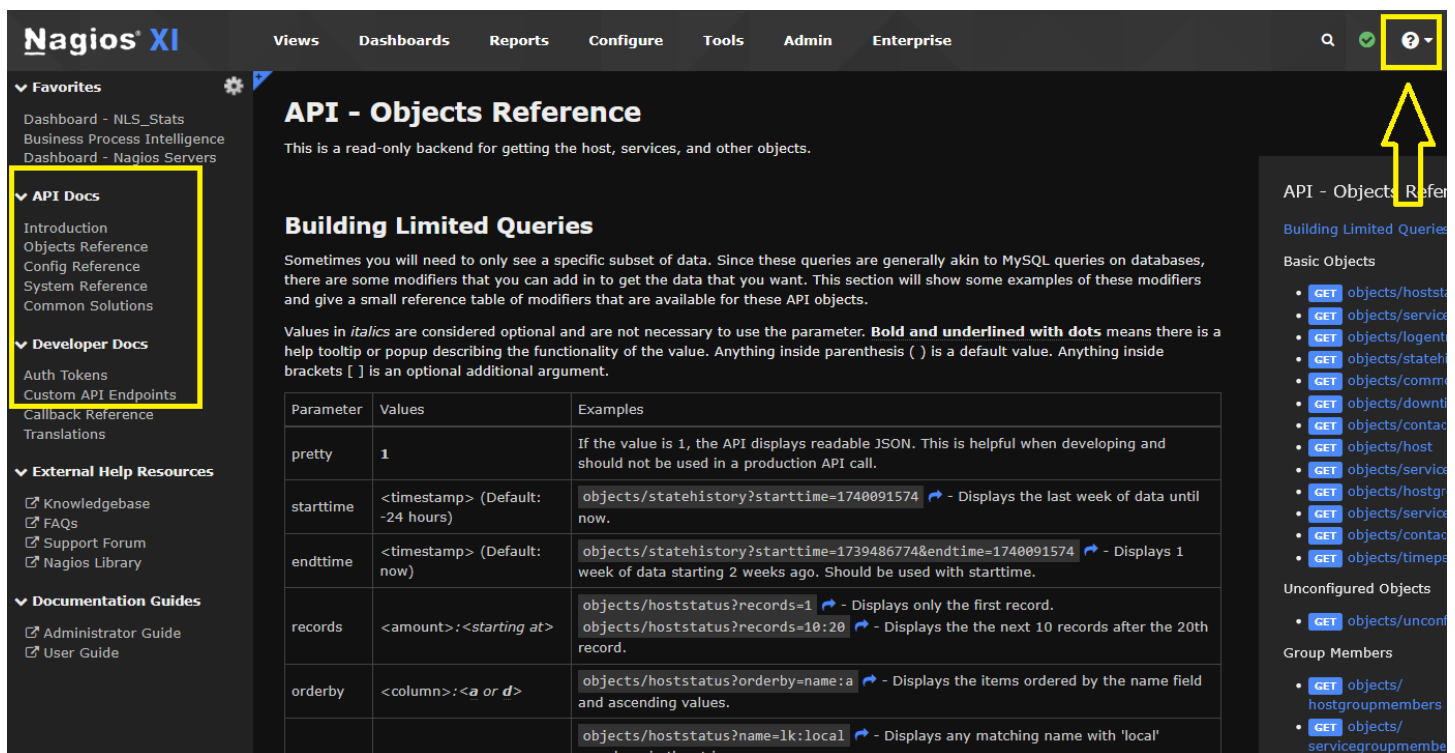
How to Access and Use the REST API in Nagios XI 2024

Purpose

This document describes how to access and use the REST API in Nagios XI 2024.

About the REST API

Nagios XI has a built-in API that can be used to read, write, delete, and update data in the system through commands authenticated via your Nagios XI API key. Responses are returned as JSON. While this guide will provide basic information, comprehensive details on usage and endpoints can be found in the Nagios XI interface by navigating to the **Help > API Docs** section:



The screenshot shows the Nagios XI interface with the 'API - Objects Reference' page. The left sidebar has a yellow box around the 'API Docs' menu item, which includes 'Introduction', 'Objects Reference', 'Config Reference', 'System Reference', and 'Common Solutions'. A yellow arrow points to the help icon in the top right corner of the interface.

API - Objects Reference

This is a read-only backend for getting the host, services, and other objects.

Building Limited Queries

Sometimes you will need to only see a specific subset of data. Since these queries are generally akin to MySQL queries on databases, there are some modifiers that you can add in to get the data that you want. This section will show some examples of these modifiers and give a small reference table of modifiers that are available for these API objects.

Values in *italics* are considered optional and are not necessary to use the parameter. **Bold and underlined with dots** means there is a help tooltip or popup describing the functionality of the value. Anything inside parenthesis () is a default value. Anything inside brackets [] is an optional additional argument.

Parameter	Values	Examples
pretty	1	If the value is 1, the API displays readable JSON. This is helpful when developing and should not be used in a production API call.
starttime	<timestamp> (Default: -24 hours)	<code>objects/statehistory?starttime=1740091574</code> - Displays the last week of data until now.
endtime	<timestamp> (Default: now)	<code>objects/statehistory?starttime=1739486774&endtime=1740091574</code> - Displays 1 week of data starting 2 weeks ago. Should be used with starttime.
records	<amount>:<starting at>	<code>objects/hoststatus?records=1</code> - Displays only the first record. <code>objects/hoststatus?records=10:20</code> - Displays the the next 10 records after the 20th record.
orderby	<column>:<a or d>	<code>objects/hoststatus?orderby=name:a</code> - Displays the items ordered by the name field and ascending values. <code>objects/hoststatus?name=lk:local</code> - Displays any matching name with 'local' anywhere in the string.

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Accessing the API

Via a Web Browser

To gain access to the API from your web browser, use the following URL, replacing `<XI.Server.IP>` with the IP address of your Nagios XI server, and `<your-API-key>` with your API key. Your API key can be found in the **Authentication** section of **Help > API Docs > Introduction** in the Nagios XI interface.

```
http://<XI.Server.IP>/nagiosxi/api/v1/system/status?apikey=<your-API-key>&pretty=1
```

Via a cURL Request

To gain access to the API from the terminal via a cURL request, use the following command, replacing `<XI.Server.IP>` with the IP address of your Nagios XI server, and `<your-API-key>` with your API key:

```
curl -XGET "http://<XI.Server.IP>/nagiosxi/api/v1/system/status?apikey=<your-API-key>&pretty=1"
```

The above both target the `/system/status` endpoint, which will provide details on the Status of your Nagios XI system.

API Sections

The API is split into three separate sections:

1. **Objects** -The standard read-only backend API that has always been available in Nagios XI. The objects section returns XML or JSON data about objects in Nagios XI including things like object statuses, contacts, contact groups, logs, history, downtime, etc.
2. **Config** - (Admin Only) Allows you to add, remove, and modify objects such as hosts and services from Nagios XI.
3. **System** - (Admin Only) The system section allows you to manage certain subsystems in Nagios XI and send commands to Nagios XI/Core to execute functions such as applying configuration, adding and removing scheduled downtime, and running a mass immediate check.

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API Usage Examples

Now, let's take a look at examples of common use cases for the API, including checking [hosts status](#) and [service status](#), [removing services](#) from a host, and scheduling downtime for [hosts](#) and [services](#).

Checking Host Status

To check the status details of a specific host you can use a URL like the following, replacing `<XI.Server.IP>` and `<your-API-key>` with your own system data, and `<host>` with your own host name. Note that this is a single long URL:

```
http://<XI.Server.IP>/nagiosxi/api/v1/objects/hoststatus?apikey=<your-API-key>&pretty=1&host_name=<host>
```

Or, you can run it as a cURL command from the terminal (this is a single command):

```
curl -XGET "http://<XI.Server.IP>/nagiosxi/api/v1/objects/hoststatus?apikey=<your-API-key>&pretty=1&host_name=<host>"
```

Checking Service Status

To check the status details of a specific service you can use a URL like the following, replacing `<XI.Server.IP>` and `<your-API-key>` with your own system data, `<host>` with your own host name, and `<service>` with your own service description. Note that this is a single long URL:

```
http://<XI.Server.IP>/nagiosxi/api/v1/objects/servicestatus?apikey=<your-API-key>&pretty=1&host_name=<host>&name=<service>
```

Or, you can run it as a cURL command from the terminal (this is a single command):

```
curl -XGET "http://<XI.Server.IP>/nagiosxi/api/v1/objects/servicestatus?apikey=<your-API-key>&pretty=1&host_name=<host>&name=<service>"
```

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Removing a Service From a Host

To delete a service from a host you can use a cURL command like the following, replacing `<XI.Server.IP>` and `<your-API-key>` with your own system data, `<host>` with your own host name, and `<service>` with your own service description. Note that this is a single long command:

```
curl -XDELETE "http://<XI.Server.IP>/nagiosxi/api/v1/config/service?apikey=<your-API-key>
&pretty=1&host_name=<host>&service_description=<service>&applyconfig=1"
```

Scheduling Downtime for Hosts

If you need to schedule a downtime for multiple hosts, for example `host1`, `host2`, and `host3`, you can use the following API call, replacing `<XI.Server.IP>` and `<your-API-key>` with your system data, the numbers in `start=1740805200&end=1740808860` with the Unix timestamps of your own desired start and end times, and the host names (after the `hosts[]=` entries) with your own. Note that this is a single long command :

```
curl -XPOST "http://<XI.Server.IP>/nagiosxi/api/v1/system/scheduleddowntime?apikey=<your-API-key>
&pretty=1" -d "comment=Test downtime creation&start=1740767747&end=1740771347
&hosts[ ]=host1&hosts[ ]=host2&hosts[ ]=host3"
```

Scheduling Downtime for Services

If you need to schedule a downtime for multiple services, for example `service1`, `service2`, and `service3`, you can use the following API call, replacing `<XI.Server.IP>` and `<your-API-key>` with your system data, the numbers in `start=1740805200&end=1740808860` with the Unix timestamps of your own desired start and end times, and the host names and service descriptions with your own. Note that this is a single long command :

```
curl -XPOST "http://<XI.Server.IP>/nagiosxi/api/v1/system/scheduleddowntime?apikey=<your-API-key>
&pretty=1" -d "comment=Test downtime creation& start=1740767747&end=1740771347&services[host1]
[]=service1&services[host1][]=service2&services[host1][]=service3"
```

Custom API Endpoints

It is possible to add your own custom endpoints to the Nagios XI API by creating a new Component. Details on this can be found in the [Help > Developer Docs > Custom API Endpoints](#) section of the Nagios XI interface.

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Finishing Up

This completes the documentation on Accessing and Using the REST API in Nagios XI. If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

[Visit Nagios Support Forum](#)

[Visit Nagios Knowledge Base](#)

[Visit Nagios Library](#)