

# How To Set Up A License Maintenance Check In Nagios XI

## Purpose

This document describes how to set up a License Maintenance Check in Nagios XI.

## Requirements

**Note:** The plugin described below will not work if you have an MSP license.

In order for this plugin to work properly, you must use Nagios XI 5R1.0 or newer, and your server must be connected to the Internet. This check requires the Nagios XI admin user account and the **Insecure Login Ticket** for that user account. In this guide the account being used is the **nagiosadmin** user account.

To get the Insecure Login Ticket for **nagiosadmin** user:

- Log into Nagios XI as the **nagiosadmin** user
- Allow insecure logins by going to **Admin > System Settings > Backward Compatibility > Allow Insecure Logins** = checked, and clicking on **Update Settings**
- In the top right corner click the **nagiosadmin** username
- You will be taken to the **Account Information** screen for the **nagiosadmin** user
- There is a section called **Insecure Login Settings**, this is what you need
  - Select the **Enable Insecure Login** check-box
  - Click on the **Generate new insecure ticket** button to create a ticket
  - Copy the ticket into your clipboard and paste it into a text editor so you can get it later when required
  - This example is using  
8ALIK2QLvuhgWaQJn3i9gI4i7nQ4L3bi49hNqnvYU6u8fkQWm95W78uu0kBPG2

# How To Set Up A License Maintenance Check In Nagios XI

## Download, Install, And Test The check\_license.sh Plugin

1. Download the following Nagios XI License Checker plugin and save it to your workstation:  
[https://assets.nagios.com/downloads/nagiosxi/scripts/check\\_license.sh](https://assets.nagios.com/downloads/nagiosxi/scripts/check_license.sh)
2. In the Nagios XI web interface navigate to **Admin > System Extensions > Manage Plugins**. Click the **Browse** button and locate the `check_license.sh` plugin you just downloaded. Then click the **Upload Plugin** button.
3. You will see confirmation that the new plugin was installed successfully and `check_license.sh` should now appear in the list of available plugins on the Nagios XI server.
4. If you would like to view the usage (help menu) of this plugin, open a ssh (putty) session to your Nagios XI server, and execute the following command:

```
/usr/local/nagios/libexec/check_license.sh -h
```

```
[root@nagiosxi libexec]# ./check_license.sh -h
check_license.sh, ver.1.0, 01/31/2016 - Nagios XI License Checker

Usage: ./check_license.sh -H <ip address> -u <username> -t <ticket> -w <warning> -c <critical>

Requirements:
  *The Nagios XI server has to be connected to the Internet
  *The user has to be an 'Admin' user
  *The warning threshold must be greater than the critical threshold

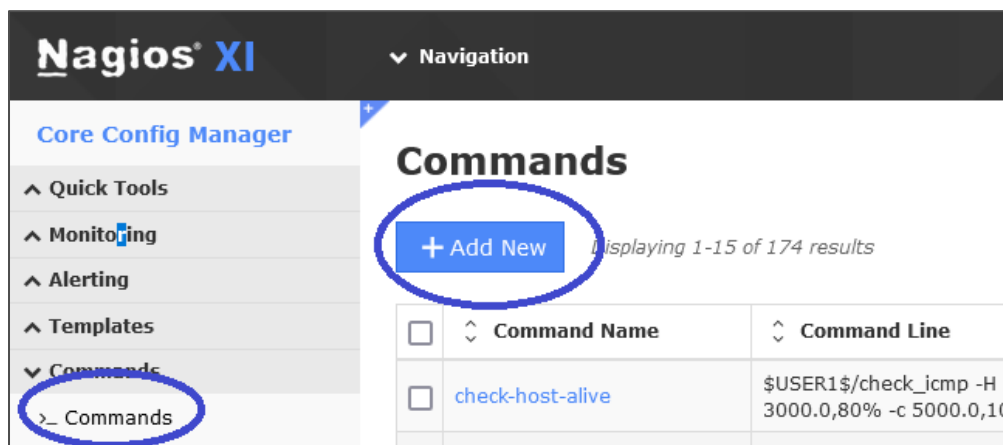
Flags:
-H          IP address
-u          username
-t          ticket (API key)
-w          Warning threshod as int
-c          Critical threshold as int
-h|--help   Print help
-v          Show version

Example: ./check_license.sh -H 192.168.0.100 -u nagiosadmin -t k3i03nw -w 30 -c 15
```

# How To Set Up A License Maintenance Check In Nagios XI

5. After you verify that the plugin works from the command line (see the example in the help menu), you can proceed with setting up a command and a service check in Nagios XI.

## Define A Command



1. Navigate to **Configure > Core Config Manager (CCM)**
2. In the left pane expand Commands and then click **>\_ Commands**
3. Click the **Add New** button
4. The **Command Management** page will open. Populate the fields with the following values:
  - Command Name:  
`check_license`
  - Command Line:  
`$USER1$/check_license.sh -H $HOSTADDRESS$ -u $ARG1$ -t $ARG2$ -w $ARG3$ -c $ARG4$`
  - Command Type:  
`check command`
  - Active:  
`checked`

# How To Set Up A License Maintenance Check In Nagios XI

## Command Management

Command Name \*

check\_license

Example: check\_example

Command Line \*

\$USER1\$/check\_license.sh -H \$HOSTADDRESS\$ -u \$ARG1\$ -t \$ARG2\$ -w \$ARG3\$ -c \$ARG4\$

Example: \$USER1\$/check\_example -H \$HOSTADDRESS\$ -P \$ARG1\$ \$ARG2\$

Command Type:

check command

☒ Active

Available Plugins

Save

Cancel

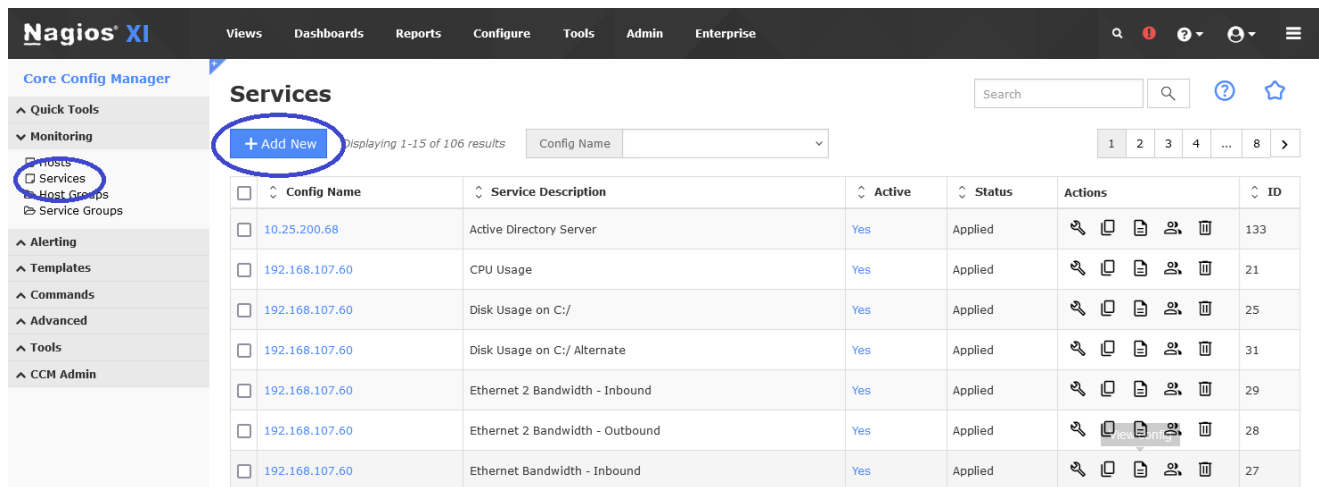
- Click the **Save** button to create this new command.

# How To Set Up A License Maintenance Check In Nagios XI




































## Add A Service

The next step is to create a new service definition for the Nagios XI localhost host object.

1. In the left pane expand **Monitoring** and then click **Services**.
2. Click the **Add New** button



The screenshot shows the Nagios XI interface. The left sidebar has the 'Monitoring' menu expanded, and 'Services' is selected. The main content area is titled 'Services' and shows a table of existing services. A blue circle highlights the '+ Add New' button in the top left of the Services section.

Config Name	Service Description	Active	Status	Actions	ID
10.25.200.68	Active Directory Server	Yes	Applied	    	133
192.168.107.60	CPU Usage	Yes	Applied	    	21
192.168.107.60	Disk Usage on C:/	Yes	Applied	    	25
192.168.107.60	Disk Usage on C:/ Alternate	Yes	Applied	    	31
192.168.107.60	Ethernet 2 Bandwidth - Inbound	Yes	Applied	    	29
192.168.107.60	Ethernet 2 Bandwidth - Outbound	Yes	Applied	    	28
192.168.107.60	Ethernet Bandwidth - Inbound	Yes	Applied	    	27

# How To Set Up A License Maintenance Check In Nagios XI

3. Create the command with the following settings:

## Service Management

Common Settings

✓ Check Settings

Alert Settings

Misc Settings

Config Name \*

localhost

Description \*

Nagios XI License Check

Display name

Manage Hosts 1

Manage Templates 1

Manage Host Groups 0

Manage Service Groups 0

☒ Active ⓘ

SaveCancel

Check command

check\_license

Command view

\$USER1\$/check\_license.sh -H \$HOSTADDRESS\$ -u \$ARG1\$ -t \$ARG2\$ -w \$ARG3\$ -c \$ARG4\$

\$ARG1\$

nagiosadmin

\$ARG2\$

i7nQ4L3bi49hNqnvYU6u8fkQWm95W78uuOkBPG2n

\$ARG3\$

30

\$ARG4\$

15

\$ARG5\$

\$ARG6\$

\$ARG7\$

\$ARG8\$

Add Arguments +Delete Arguments -

▶ Run Check Command

## Common Settings tab

**Config Name:**

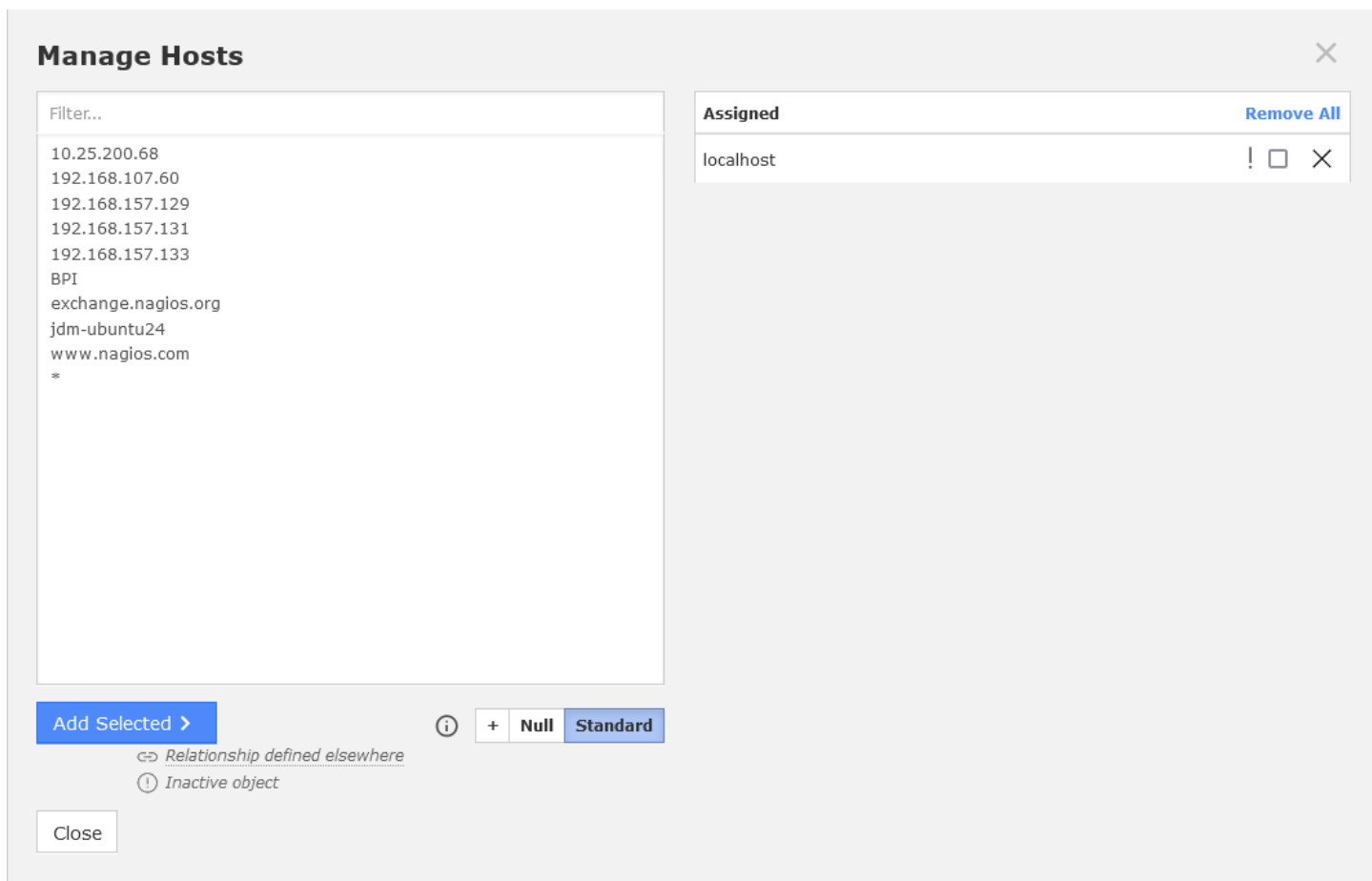
localhost

**Description:**

Nagios XI License Check

# How To Set Up A License Maintenance Check In Nagios XI

4. Click the **Manage Hosts** button



The screenshot shows the 'Manage Hosts' dialog box in Nagios XI. It features a search filter at the top left, a list of hostnames in the center, and an 'Assigned' table on the right. The 'Assigned' table currently contains 'localhost'. At the bottom, there is an 'Add Selected >' button, a legend for relationship types (Null and Standard), and a 'Close' button.

**Manage Hosts**

Filter...

- 10.25.200.68
- 192.168.107.60
- 192.168.157.129
- 192.168.157.131
- 192.168.157.133
- BPI
- exchange.nagios.org
- jdm-ubuntu24
- www.nagios.com
- \*

**Assigned** [Remove All](#)

localhost	! □ ×
-----------	-------

**Add Selected >** ⓘ + **Null** **Standard**

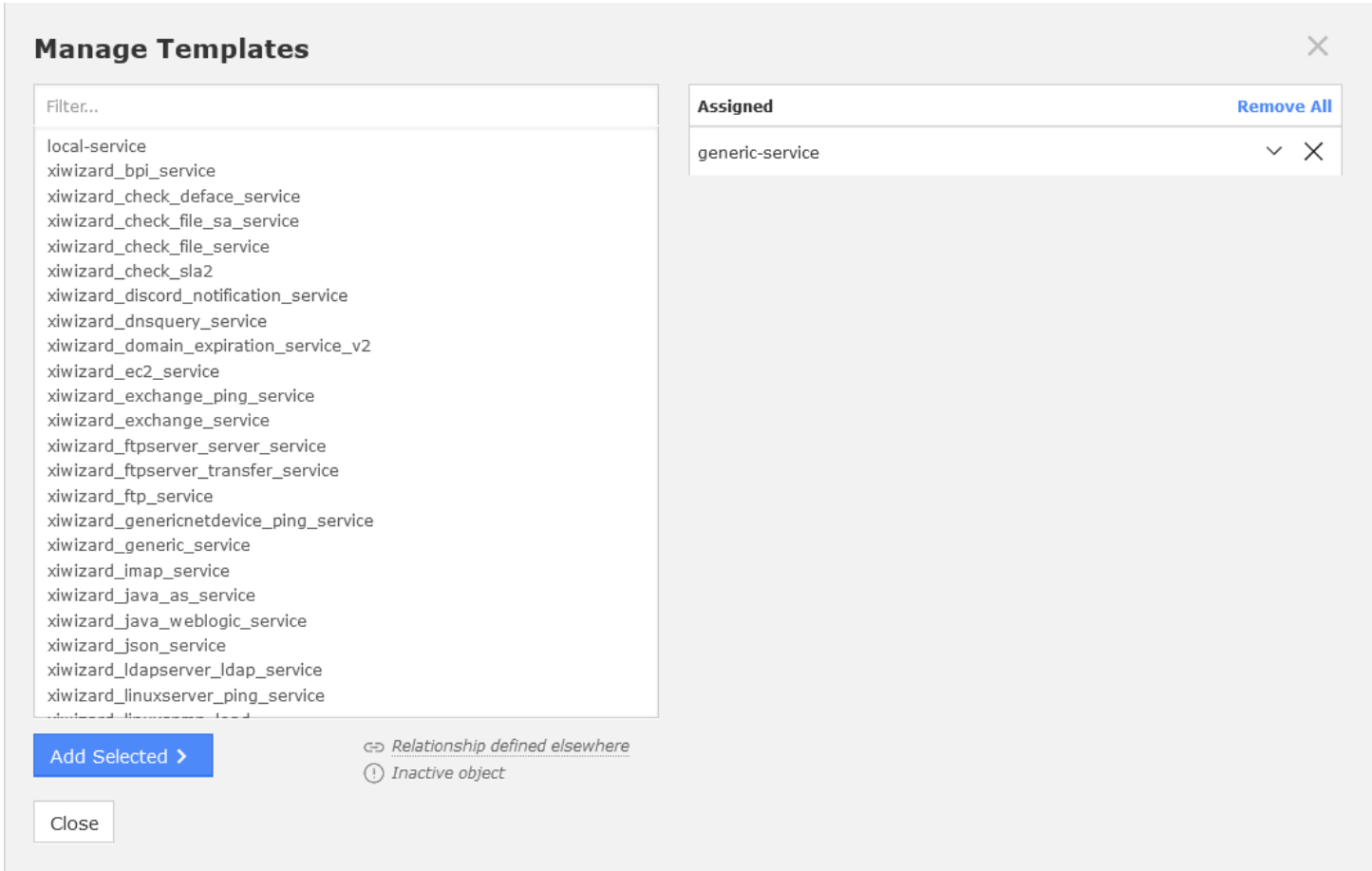
↔ Relationship defined elsewhere  
ⓘ Inactive object

Close

5. Select **localhost** in the left pane and click the **Add Selected >** button

# How To Set Up A License Maintenance Check In Nagios XI

6. Click the **Manage Templates** button



The screenshot shows the 'Manage Templates' dialog box in Nagios XI. It has a title bar with a close button (X). The dialog is divided into two main sections. The left section contains a search bar labeled 'Filter...' and a list of service templates. The right section is titled 'Assigned' and contains a table with one row: 'generic-service'. Above this table is a 'Remove All' link. Below the list of templates is an 'Add Selected >' button. At the bottom left is a 'Close' button. At the bottom right are two informational links: 'Relationship defined elsewhere' and 'Inactive object'.

**Manage Templates**

Filter...

- local-service
- xiwizard\_bpi\_service
- xiwizard\_check\_deface\_service
- xiwizard\_check\_file\_sa\_service
- xiwizard\_check\_file\_service
- xiwizard\_check\_sla2
- xiwizard\_discord\_notification\_service
- xiwizard\_dnsquery\_service
- xiwizard\_domain\_expiration\_service\_v2
- xiwizard\_ec2\_service
- xiwizard\_exchange\_ping\_service
- xiwizard\_exchange\_service
- xiwizard\_ftpserver\_server\_service
- xiwizard\_ftpserver\_transfer\_service
- xiwizard\_ftp\_service
- xiwizard\_genericnetdevice\_ping\_service
- xiwizard\_generic\_service
- xiwizard\_imap\_service
- xiwizard\_java\_as\_service
- xiwizard\_java\_weblogic\_service
- xiwizard\_json\_service
- xiwizard\_ldapserver\_ldap\_service
- xiwizard\_linuxserver\_ping\_service

**Assigned** [Remove All](#)

generic-service	▼	✕
-----------------	---	---

**Add Selected >**

[Relationship defined elsewhere](#)

[Inactive object](#)

**Close**

7. Select generic-service in the left pane and click the **Add Selected >** button

8. Click the **Close** button



# How To Set Up A License Maintenance Check In Nagios XI

## Check command (drop down list)

`check_license`

- **\$ARG1\$**

`nagiosadmin`

- **\$ARG2\$**

`<< your user's Insecure Login token >>`

- **\$ARG3\$**

`30 (this is the warning threshold in days)`

- **\$ARG4\$**

`15 (this is the critical threshold in days)`

- **Active:**

`Checked`

# How To Set Up A License Maintenance Check In Nagios XI

## Check Settings tab

**Service Management**

Common Settings | **Check Settings** | Alert Settings | Misc Settings

**Initial state**  
Warning | Critical | **Ok** | Unknown

**Check interval**  
1440 min

**Retry interval**  
20 min

**Max check attempts \***  
3 attempts

**Active checks enabled**  
On | Off | **Skip** | Null

**Passive checks enabled**  
On | Off | **Skip** | Null

**Check period \***  
▼

**Freshness threshold**  
sec

**Check freshness**  
On | Off | **Skip** | Null

**Obsess over service**  
On | Off | **Skip** | Null

**Event handler**  
▼

**Event handler enabled**  
On | Off | **Skip** | Null

**Low flap threshold**  
%

**High flap threshold**  
%

**Flap detection enabled**  
On | Off | **Skip** | Null

**Flap detection options**  
Critical | Warning | **Ok** | Unknown

**Retain status information**  
On | Off | **Skip** | Null

**Retain non-status information**  
On | Off | **Skip** | Null

**Process perf data**  
On | Off | **Skip** | Null

**Is Volatile**  
On | Off | **Skip** | Null

**Save** **Cancel**

- **Check interval:**  
1440
- **Retry interval:**  
20
- **Max check attempts:**  
3

Click the **Save** button and then click the **Apply Configuration** button at the bottom of the screen.

# How To Set Up A License Maintenance Check In Nagios XI

You may have noticed that the check interval is set to 1440. There are 1440 minutes in a day, hence this setting causes the check to only run once a day, running any more frequently isn't really required.

## End Result

Now that the service has been created, navigate to **Home > Service Detail** and search for the service.

If the check has been configured correctly, you should see a result like the screenshot.

## Hiding The Insecure Login Ticket

If you prefer to obfuscate the ticket so that it would not be visible under the Configuration Manager, you could use a macro. For example, \$USER8\$ could store the insecure login ticket and then in your service the \$ARG2\$ field would reference the user macro \$USER8\$.

To learn more about how to implement user macros in Nagios XI, please refer to the following documentation:

[Understanding The User Macros Component](#)

## Finishing Up

This completes the documentation on setting up a license check 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](#)