

The Industry Standard in IT Infrastructure Monitoring

Purpose

This document describes how to use the Nagios XI configuration file import prep tool. The prep tool is used to pre-process native Nagios Core configuration files into a format that will be more easily manageable using the XI web configuration frontend in the future. The import prep tool should be used before importing native Nagios Core configuration files into the Nagios Core Configuration Manager included in Nagios XI.

Target Audience

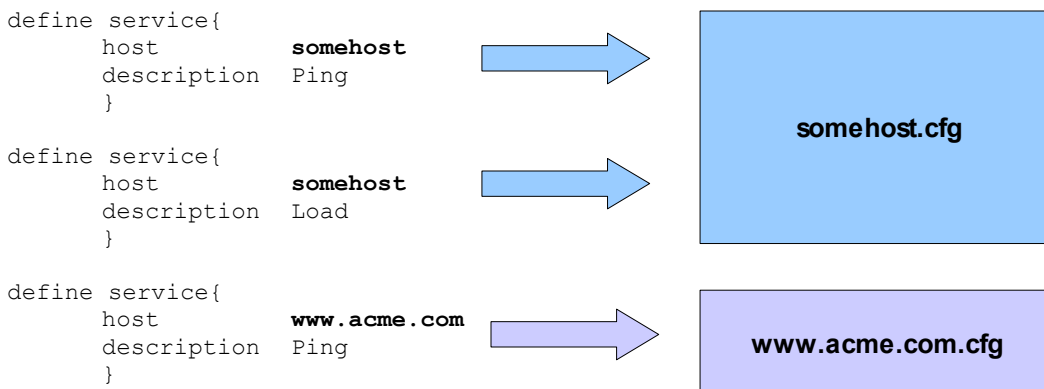
This document is intended for use by Nagios Administrators who need to import configuration files from an existing Nagios Core installation.

What The Tool Does

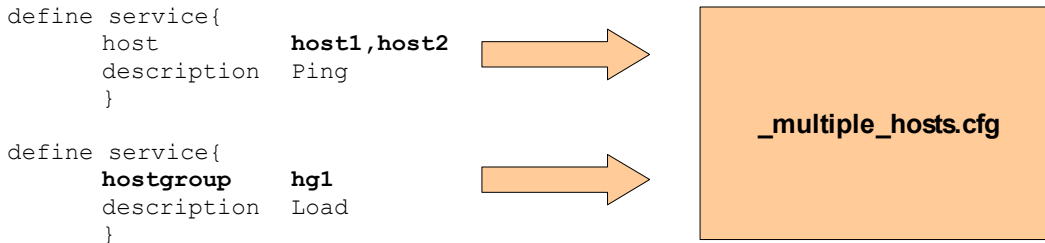
The import prep tool analyzes a Nagios Core object configuration file and splits service definitions into one or more separate configuration files named after the host associated with the service definition. Other types of object definitions (hosts, hostgroups, etc.) are written to a file named the same as the source configuration file.

Newly created configuration files are written to the current working directory. For this reason, it is important that the source file be located in different directory than the current working directory.

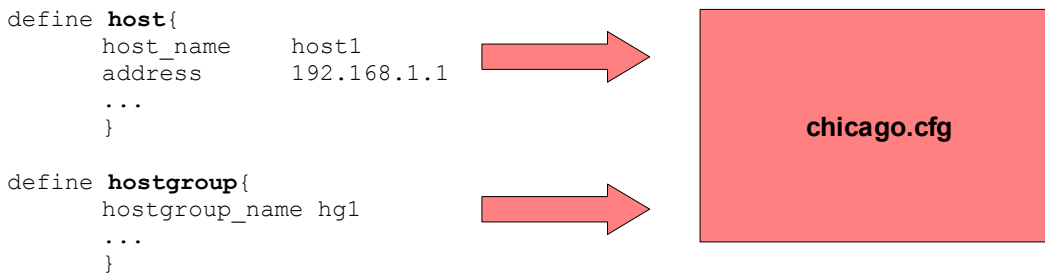
If the prep tool found the following service definitions in a source file, they would be written to two separate configuration files:



Service definitions that reference multiple host names, or that reference hostgroups, are written to a special configuration file called `_multiple_hosts.cfg` like so:



Other types of object definitions (hosts, hostgroups, etc.) are written to a file named the same as the source configuration file. For example, if the source file was named `chicago.cfg`, these object definitions would be written to a similarly named file:



Multiple Source Files

The import prep tool script only processes one source configuration file at a time. If you have multiple object configuration tools that need to be processed, you will need to run the tool against each source configuration file.

Getting The Tool

The import prep tool is distributed as part of Nagios XI beginning with version 2009R1. The import prep tool script is located in the following directory of the XI monitoring server:

```
/usr/local/nagiosxi/tools
```

The script can be run from a shell prompt using the following syntax:

```
php /usr/local/nagiosxi/tools/xiprepimport.php sourceconfigfile
```

where *sourceconfigfile* is the path to the source configuration file. Note that the source config file cannot reside in the current working directory.

Using The Tool

To use the tool, follow the steps below.

First, create a temporary directory for holding the converted configuration files. This directory must be located beneath the `/usr/local/nagios/etc` directory structure. Example:

```
mkdir /usr/local/nagios/etc/cfgprep
```

Create a subdirectory for holding the original source configuration files you wish to prep for import:

```
mkdir /usr/local/nagios/etc/cfgprep/orig
```

Upload (via SSH, etc.) your original source configuration files from your Nagios Core instance to this directory (`/usr/local/nagios/etc/cfgprep/orig`).

Once you've uploaded the source files, change to the the config prep directory you created (`/usr/local/nagios/etc/cfgprep`).

```
cd /usr/local/nagios/etc/cfgprep
```

List the source configuration files that you uploaded:

```
ls -al orig
```

You should see a listing of your original source config files. Here's an example of what you might see (the file names and number of files in your listing will differ):

```
total 112
drwxr-xr-x 2 root root 4096 2009-12-20 10:30 .
drwxr-xr-x 3 root root 4096 2009-12-20 10:30 ..
-rw----r-- 1 root root 11905 2009-12-20 10:30 commands.cfg
-rw----r-- 1 root root 2622 2009-12-20 10:30 contacts.cfg
-rw----r-- 1 root root 152 2009-12-20 10:30 dependencies.cfg
-rw----r-- 1 root root 1714 2009-12-20 10:30 hostgroups.cfg
-rw----r-- 1 root root 6664 2009-12-20 10:30 hosts.cfg
-rw----r-- 1 root root 101 2009-12-20 10:30 servicegroups.cfg
-rw----r-- 1 root root 48263 2009-12-20 10:30 services.cfg
-rw----r-- 1 root root 12641 2009-12-20 10:30 templates.cfg
-rw----r-- 1 root root 3209 2009-12-20 10:30 timeperiods.cfg
```

Run the config prep tool on each of the original source files. Example:

```
php /usr/local/nagiosxi/tools/xiprepimport.php orig/commands.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/contacts.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/dependencies.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/hostgroups.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/hosts.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/servicegroups.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/services.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/templates.cfg
php /usr/local/nagiosxi/tools/xiprepimport.php orig/timeperiods.cfg
```

Check for any error messages that may result from running the tool. Errors may occur if permissions are incorrect on the source files, or if the source files are located in the current working directory. Resolve any errors before continuing.

After you finishing running the config prep tool, list the contents of the current directory.

```
ls -al
```

You will see several files that have been created. Example:

```
total 116
drwxr-xr-x  3 root  root   4096 2009-12-20 10:36 .
drwsrwsr-x 10 apache nagios 4096 2009-12-20 10:29 ..
-rw-r--r--  1 root  root   5946 2009-12-20 10:36 commands.cfg
-rw-r--r--  1 root  root    827 2009-12-20 10:36 contacts.cfg
-rw-r--r--  1 root  root    132 2009-12-20 10:36 dependencies.cfg
-rw-r--r--  1 root  root    185 2009-12-20 10:36 dev1.cfg
-rw-r--r--  1 root  root   1370 2009-12-20 10:36 www.nagios.com.cfg
-rw-r--r--  1 root  root    129 2009-12-20 10:36 em01b.cfg
-rw-r--r--  1 root  root   3091 2009-12-20 10:36 _empty_host.cfg
-rw-r--r--  1 root  root   2773 2009-12-20 10:36 filer.cfg
-rw-r--r--  1 root  root    962 2009-12-20 10:36 hostgroups.cfg
-rw-r--r--  1 root  root   4442 2009-12-20 10:36 hosts.cfg
-rw-r--r--  1 root  root   6993 2009-12-20 10:36 linksys-switch.cfg
-rw-r--r--  1 root  root   2284 2009-12-20 10:36 mpc.cfg
-rw-r--r--  1 root  root  16252 2009-12-20 10:36 _multiple_hosts.cfg
drwxr-xr-x  2 root  root   4096 2009-12-20 10:30 orig
-rw-r--r--  1 root  root     78 2009-12-20 10:36 servicegroups.cfg
-rw-r--r--  1 root  root     0 2009-12-20 10:36 services.cfg
-rw-r--r--  1 root  root   1318 2009-12-20 10:36 task.cfg
-rw-r--r--  1 root  root   6330 2009-12-20 10:36 templates.cfg
-rw-r--r--  1 root  root    531 2009-12-20 10:36 temptraxel.cfg
-rw-r--r--  1 root  root   1400 2009-12-20 10:36 timeperiods.cfg
```

Next Steps

The configuration files that have been created are now ready to be imported into Nagios XI. See the separate document *Importing Config Files Into XI* for instructions on completing this step.