Purpose

This document describes how to use the Nagios XI configuration file import prep tool to prepare an installation for migration from Nagios Core to Nagios XI. The prep tool is used to pre-process native Nagios Core configuration files into a format that is easily managed in the Nagios XI web interface.

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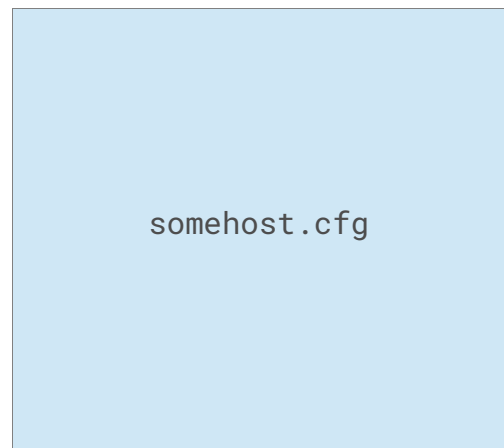
Newly created configuration files are written to the current working directory. For this reason, it is important that the source file be located in a different directory than the current working directory.

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

`somehost.cfg:`

```
define service {
    host        somehost
    description     Ping
}

define service {
    host        somehost
    description     Load
}
```


somehost.cfg

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`www.acme.com.cfg:`

```
define service {
    host        www.acme.com
    description     Ping
}
```
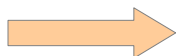
www.acme.com.cfg

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

`_multiple_hosts.cfg:`

```
define service {
    host        host1,host2
    description     Ping
}

    define service {
    hostgroup hg1
    description     Load

}
```

_multiple_hosts.cfg

Other types of object definitions (hosts, hostgroups, etc.) are written to a file named the same as the source configuration file.

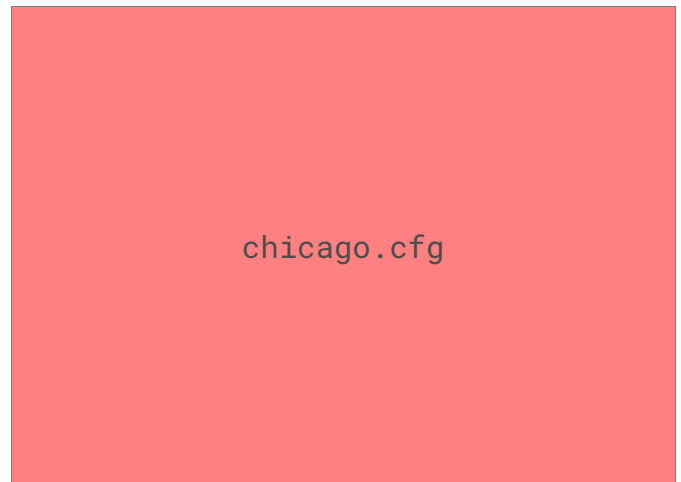For example, if the source file was named `chicago.cfg`, these object definitions would be written to a similarly named file:

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```
chicago.cfg:

  define host {
      host_name  host1
      address    192.168.1.1
      ...
              }

  define hostgroup {
      hostgroup_name  hg1
      ...
  }
```

chicago.cfg

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.

Tool Location And Command Line Syntax

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: The source config file cannot reside in the current working directory.

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Using The Config Import Prep Tool

To use the config import prep tool, follow the steps below.

1. Establish a terminal session to your Nagios XI server as the root user.

2. 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
   ```

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

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

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

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

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

6. List the source configuration files that you uploaded:

   ```
   ls -al orig
   ```

7. 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
```

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```
-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
```

8. 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.

9. If you wish to run a bash one-shot command to process all of the files in the orig directory, run:

```
cd /usr/local/nagios/etc/cfgprep
for f in orig/* ; do /usr/local/nagiosxi/tools/xiprepimport.php $f ; done
```

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

```
ls -al
```

You will see several files that have been created as shown in this 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
```

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```
-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  temptraxe1.cfg
-rw-r--r--    1    root    root   1400   2009-12-20 10:36 timeperiods.cfg
```

Next Steps

The Nagios Core configuration files have been converted to a better format for Nagios XI and are now ready to be imported into Nagios XI. Please refer to the following documentation for instructions on completing the next step for uploading config files:

Importing Config Files Into Nagios XI 2024

Remember you will be uploading the converted files created by the Config Import Prep Tool and not the original config files from Nagios Core.

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Finishing Up

This completes the documentation on using the config import prep tool 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