

# Filtering URLs in Cisco Content Engines (Caching Only)

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## Introduction

This document shows how to configure the Cisco Cache and Content Engines in order to filter URLs with Cisco Cache and Content Software, Releases 2.3.0 through 5.x.

## Prerequisites

### Requirements

There are no specific requirements for this document.

### Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

### Conventions

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

## Block Access to Sites

This is an add-on for the configuration of the URL-filter feature on the Cache Engine. You can block access to sites with the command **url-filter bad-sites-block** (version 2.x – 4.x) or the command **url-filter http bad-sites-deny** (version 5.x), and then list these URLs in a badurl.lst file.

You can also enable access to good sites. The command **url-filter good-sites-allow** (version 2.x – 4.x) or the command **url-filter http good-sites-allow** (version 5.x) is configured the same way, but blocks all URLs except the ones listed in a goodurl.lst file. The two features cannot coexist.

1. Create a badurl.lst that contains the list of sites you wish to block. You can also create an optional block.html that contains an HTML text message to send back to the client in order to inform the client

that a URL has been blocked.

In this example (version 2.3), a badurl.lst and block.html files were created with an ASCII editor (Notepad or vi) and placed in the /local/etc directory. The files were transferred from a workstation with FTP binary transfer mode.

```
cache#cd /local/etc
cache#dir

      size      date      time      name      LongName
-----
      512      Mar-24-2000  13:07:48  .          .
      512      Apr-09-2000  18:12:44  ..         ..
     96020      Mar-24-2000  13:08:04  EVENTS.DAT events.dat
      512      Mar-24-2000  13:13:24  TRANSLOG  translog
     5816      Mar-24-2000  13:13:24  FTPMIM~1.CON ftp.mime.config
       62      Apr-09-2000  18:10:36  BADURL.LST badurl.lst
      261      Apr-09-2000  17:34:38  BLOC~1.HTM block.html

      4 DIR(S),   4 FILE(S) 102159 bytes
      1986723840 bytes AVAILABLE ON VOLUME /c0t0d0s1
```

2. Issue the **type** command in order to verify that all the files have been transferred. List sites you wish to block in the badurl.lst file, with the full URL syntax (such as http://www.cisco.com/). The Cache Engine automatically skips all site subtrees.

```
cache#type badurl.lst
http://www.unwantedsite1.com/
http://www.unwantedsite2.com/
http://www.unwantedsite3.com/
```

3. The custom message is optional.

```
cache#type block.html
URL Blocked
The site you are trying to view is blocked.
Please contact your system administrator if
you need to unblock this site.
```

4. Issue the **url-filter bad-sites-block** command in order to activate the feature in the Cache Engine.

```
(version 2.x) cache(config)# url-filter bad-sites-block (version 2.x)
(version 4.x) cache(config)# url-filter bad-sites-deny /local/badlist.lst (version 4.x)
(version 4.x) cache(config)# url-filter bad-sites-deny enable (version 4.x)
(version 5.x) cache(config)# url-filter http bad-sites-deny file /local/etc/badurl.lst (version 5.x)
(version 5.x) cache(config)# url-filter http bad-sites-deny enable (version 5.x)

cache(config)# exit
cache# wr mem
Building configuration.... . [OK]
```

5. The **show url-filter** command shows that the feature is functional.

```
version 2.x cache# show url-filter
Block Bad sites from /local/etc/badurl.lst URL list
Display customized URL blocking message from /local/etc/block.html file.
```

version 4.x and 5.x

```
cache# sh url-filter
URL filtering is set to use bad-list

Local list configurations
=====
```

```
Good-list file name :  
Bad-list file name : /local1/badlist.lst  
Custom message directory :
```

```
Websense server configuration  
=====  
Websense server IP      : <none>  
Websense server port   : 15868  
Websense server timeout: 20 (in seconds)  
Websense allow mode is ENABLED
```

```
N2H2 server configuration  
=====  
N2H2 server IP         : <none>  
N2H2 server port      : 4005  
N2H2 server timeout   : 5 (in seconds)  
N2H2 allow mode is ENABLED  
cache#
```

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## Related Information

- [Cisco Cache Software, Release 2.3](#)
- [Cache Engine 500 Series Product Support](#)
- [Content Engine 500 Series Product Support](#)
- [Application Networking Services Support Resources](#)
- [Technical Support – Cisco Systems](#)

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