

## drupal-with-nginx: D7 Structure and Includes

### Directory Structure

Configuration directory = `/etc/nginx/`

Subdirectories = `/apps/drupal/`  
`/sites-available`  
`/sites-enabled`

### File Structure

For ease of identification and documentation, there are two types of configuration file:

1. Calling files – a configuration file which calls another configuration file through the use of an “include statement”
2. Include files – a configuration file called by an include statement

### “Calling” Files

Four “calling” files (`nginx.conf`, `fastcgi.conf`, `drupal.conf*`, `example.com.conf`) contain include statements which call all the include files.

\*`drupal.conf` is called by `example.com.conf` so it is both a calling file and an include file. There are four flavors – `drupal.conf`, `drupal-escaped.conf`, `drupal-boost.conf` or `drupal-boost-escaped.conf`. **Use only one.** Note that the two escaped flavor files are not included within `example.com.conf`. What this means is that you must replace the `drupal.conf` include statement with the appropriate file.

### “Include” Files

Include files are files called by another configuration file within nginx (in this instance one of the four calling files). Include files are used to simplify and organize nginx configuration. Include files may be called using either the relative path to the directory containing `nginx.conf`, in this case `/etc/nginx`, or by using the absolute path in the include statement. “Include” is a directive in the nginx core module. See <http://wiki.nginx.org/CoreModule#include>.

Example: `apps/drupal/fastcgi_drupal.conf`; (relative path)  
`/etc/nginx/apps/drupal/fastcgi_drupal.conf`; (absolute path)

Some of the include statements in the calling files are disabled by default. This is indicated by a `#` placed before the line. If no `#` appears before the statement, it is enabled.

Example of disabled include statement: `#include apps/drupal/fastcgi_drupal.conf`;

### “Include” Statements

An include statement refers to the statement used in a configuration file to call another file. An example of an include statement is: `include apps/drupal/fastcgi_drupal.conf`; “.

## File Listing of D7 Branch

/etc/nginx/

- README.md
- blacklist.conf
- fastcgi.conf
- fastcgi\_microcache\_zone.conf
- fastcgi\_params
- fastcgi\_private\_files.conf
- koi-utf
- koi-win
- map\_block\_http\_methods.conf
- map\_cache.conf
- map\_https\_fcgi.conf
- map\_https\_forwarded\_proto.conf
- mime.types
- nginx.conf
- nginx\_status\_allowed\_hosts.conf
- nginx\_status\_vhost.conf
- php\_fpm\_status\_allowed\_hosts.conf
- php\_fpm\_status\_vhost.conf
- proxy\_microcache\_zone.conf
- reverse\_proxy.conf
- upstream\_phpapache.conf
- upstream\_phpfcgi\_tcp.conf
- upstream\_phpfcgi\_unix.conf
- win-utf

apps/drupal/

- cron\_allowed\_hosts.conf
- drupal.conf
- drupal\_boost.conf
- drupal\_boost\_escaped.conf
- drupal\_cron\_update.conf
- drupal\_escaped.conf
- drupal\_install.conf
- drupal\_upload\_progress.conf
- fastcgi\_drupal.conf
- hotlinking\_protection.conf
- microcache\_fcgi.conf
- microcache\_fcgi\_auth.conf
- microcache\_proxy.conf
- microcache\_proxy\_auth.conf

sites-available/

- 000-default
- example.com.conf

## Calling Files and Their Include Files

### nginx.conf

The following include files are contained in nginx.conf. Each of these include files appears only once in the nginx.conf file and does not appear in any other calling file. The default state of the include statement (enabled or disabled) is listed.

blacklist.conf	Enabled
fastcgi_microcache_zone.conf	Enabled
fastcgi.conf	Enabled
map_block_http_methods.conf	Enabled
map_cache.conf	Enabled
map_https_fcgi.conf	Disabled
map_https_forwarded_proto.conf	Disabled
mime.types	Enabled
nginx_status_allowed_hosts.conf	Enabled
php_fpm_status_allowed_hosts.conf	Disabled
proxy_microcache_zone.conf	Disabled
reverse_proxy.conf	Disabled
upstream_phpapache.conf	Disabled
upstream_phpcgi_tcp.conf	Enabled
upstream_phpcgi_unix.conf	Disabled
apps/drupal/cron_allowed_hosts.conf	Disabled
sites-available/*	Enabled

### fastcgi.conf

The following include files are contained in fastcgi.conf. Each of these include files appears only once in the fastcgi.conf file and does not appear in any other calling file. The default state of the include statement (enabled or disabled) is listed.

fastcgi_params	Enabled
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### example.com.conf

The example.com.conf file consists of two sections – http and https. Each section contains two server blocks (a total of four server blocks in the file, two for http and two for https).

The first server block for each section rewrites www.example.com to example.com. The second server block contains the configuration settings and include statements.

The following include files are contained in example.com.conf. Each of these include files is called twice in the example.com.conf file (once for http and once for https, except for drupal\_install.conf which only appears in the http section) and does not appear in any

other calling file. The default state of the include statement (enabled or disabled) is listed for each server block.

	<b>http server block</b>	<b>https server block</b>
drupal.conf	Enabled	Enabled
drupal_boost.conf	Disabled	Disabled
drupal_cron_update.conf	Disabled	Disabled
drupal_install.conf	Disabled	N/A
drupal_upload_progress.conf	Enabled	Enabled
php_fpm_status_vhost.conf	Disabled	Disabled
nginx_status_vhost.conf	Enabled	Enabled

[apps/drupal/\(drupal.conf | drupal\\_escaped.conf | drupal\\_boost.conf | drupal\\_boost\\_escaped.conf\)](#)

Unlike the other calling files, the drupal.conf set of files calls each include file more than once. The table below indicates the number of instances an include file is called. These include files are not called by any other calling file. The default state of the include statement (enabled or disabled) is listed for each drupal.conf flavor.

	Instances	drupal.conf	drupal_escaped.conf	drupal_boost.conf*	drupal_boost_escaped.conf*
apps/drupal/fastcgi_drupal.conf	5	Enabled	Enabled	Enabled	Enabled
apps/drupal/hotlinking_protection.conf	2	Disabled	Disabled	Disabled	Disabled
apps/drupal/microcache_fcgi_auth.conf	2	Disabled	Disabled	Enabled	Enabled
apps/drupal/microcache_fcgi.conf	2	Enabled	Enabled	N/A	N/A
apps/drupal/microcache_proxy_auth.conf	2	Disabled	Disabled	Disabled	Disabled
apps/drupal/microcache_proxy.conf	2	Disabled	Disabled	N/A	N/A

All instances are either enabled or disabled in a drupal.conf file. There are no mixed instances of an include file, ie enabled in one section and disabled in another section of the same calling file. For example, apps/drupal/fastcgi\_drupal.conf appears five times in the calling file drupal.conf. It is enabled in all five instances.

\*Note that apps/drupal/microcache\_fcgi.conf and apps/drupal/microcache\_proxy.conf are not included in the boost versions of drupal.conf.

## Calling Files and Their Includes Table

<b>/etc/nginx/ nginx.conf</b>	<b>/etc/nginx/ fastcgi.conf</b>	<b>apps/drupal/ drupal.conf, drupal_escaped.conf, drupal_boost.conf*, drupal_boost_escaped.conf*</b>	<b>sites-available/ example.com.conf</b>
blacklist.conf	fastcgi_params	apps/drupal/fastcgi_drupal.conf	apps/drupal/drupal.conf
fastcgi_microcache_zone.conf		apps/drupal/hotlinking_protection.conf	apps/drupal/drupal_boost.conf
fastcgi.conf		apps/drupal/microcache_fcgi_auth.conf	apps/drupal/drupal_cron_update.conf
map_block_http_methods.conf		apps/drupal/microcache_fcgi.conf*	apps/drupal/drupal_install.conf
map_cache.conf		apps/drupal/microcache_proxy_auth.conf	apps/drupal/drupal_upload_progress.conf
map_https_fcgi.conf		apps/drupal/microcache_proxy.conf*	php_fpm_status_vhost.conf
map_https_forwarded_proto.conf			nginx_status_vhost.conf
mime.types			
nginx_status_allowed_hosts.conf			
php_fpm_status_allowed_hosts.conf			
proxy_microcache_zone.conf			
reverse_proxy.conf			
upstream_phpapache.conf			
upstream_phpfcgi_tcp.conf			
upstream_phpfcgi_unix.conf			
apps/drupal/cron_allowed_hosts.conf			
sites-available/*			

\*Note that apps/drupal/microcache\_fcgi.conf and apps/drupal/microcache\_proxy.conf are not included in the boost versions of drupal.conf.