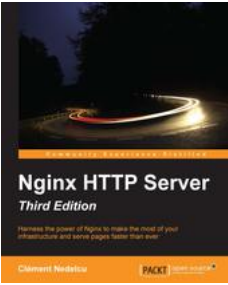


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## The Rewrite module

This module, in particular, brings much more functionality to Nginx than a simple set of directives. It defines a whole that will be explained throughout this section.

Basically, the purpose of this module (as the name suggests) is to perform URL rewriting. This mechanism allows you containing multiple parameters. For instance, `http://example.com/article.php?id=1234&comment=32` —such uninformative and meaningless for a regular visitor. Instead, links to your website will contain useful information the page the visitor is about to visit. The URL given in the example becomes `http://website.com/article-1234-32-strengthens.html`. This solution is not only more interesting for your visitors, but also for search engines—URL re Search Engine Optimization (SEO).

The principle behind this mechanism is simple—it consists of rewriting the URI of the client request after it is receive Once rewritten, the URI is matched against the location blocks in order to find the configuration that should be appli is further detailed in the coming sections.

### Reminder on regular expressions

First and foremost, this module requires a certain understanding of **regular expressions**, also known as **regexes** or **re** performed by the `rewrite` directive, which accepts a pattern followed by the replacement URI.

It is a vast topic—entire books are dedicated to explaining the ins and outs of regular expressions. However, the simp about to examine should be more than sufficient to make the most of the mechanism.

### Purpose

The first question we must answer is: what is the purpose of regular expressions? To put it simply, the main purpose i characters matches a given pattern. The pattern is written in a particular language that allows the defining of extrem

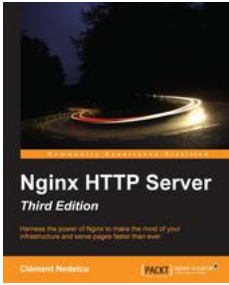
String	Pattern	Does it match?	Explanation
hello	<code>^hello\$</code>	Yes	The string begins with the character <code>h</code> ( <code>^h</code> ), followed by <code>e</code> , <code>l</code> , <code>l</code> , <code>o</code> ( <code>o\$</code> ).
hell	<code>^hello\$</code>	No	The string begins with the character <code>h</code> ( <code>^h</code> ), followed by <code>e</code> , <code>l</code> , <code>l</code> , with <code>o</code> .
Hello	<code>^hello\$</code>	Depends	If the engine performing the match is case-sensitive, the string doesn't ma

This concept becomes a lot more interesting when complex patterns are employed, such as one that validates e-mail `[A-Z0-9.-]+\.[A-Z]{2,4}$`. Programmatically validating if an e-mail address is well-formed would require a gre: can be done with a single regular expression in pattern matching.

### PCRE syntax

The syntax that Nginx employs originates from the **Perl Compatible Regular Expression (PCRE)** library, which (if you **Nginx Configuration**) is a pre-requisite for making your own build, unless you disable the modules that make use of i form of regular expressions, and nearly everything you learn here remains valid for other language variations.

In its simplest form, a pattern is composed of one character, for example, `x`. We can match strings against this pa the pattern `x`? Yes, `example` contains the character `x`. It can be more than one specific character—the pa character between `a` and `z`, or even a combination of letters and digits: `[a-z0-9]`. In consequence, the p validates the following strings: `hello` and `hell4` but not `hell` or `hell!`.



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You probably noticed that we employed the brackets `[` and `]`. They are part of what we call **metacharacters** pattern. There are a total of 11 metacharacters, and all play a different role. If you want to create a pattern that actually matches characters, you need to escape the character with a `\` (backslash).

Metacharacter	Description
<code>^</code> Beginning	The entity after this character must be found at the beginning. Example pattern: <code>^h</code> Matching strings: <code>hello</code> , <code>h</code> , <code>hh</code> (anything beginning with <code>h</code> ) Non-matching strings: <code>character</code> , <code>ssh</code>
<code>\$</code> End	The entity before this character must be found at the end. Example pattern: <code>e\$</code> Matching strings: <code>sample</code> , <code>e</code> , <code>file</code> (anything ending with <code>e</code> ) Non-matching strings: <code>extra</code> , <code>shell</code>
<code>.</code> (dot) Any	Matches any character. Example pattern: <code>hell.</code> Matching strings: <code>hello</code> , <code>hellx</code> , <code>hell5</code> , <code>hell!</code> Non-matching strings: <code>hell</code> , <code>helo</code>
<code>[ ]</code> Set	Matches any character within the specified set. Syntax: <code>[a-z]</code> for a range, <code>[abcd]</code> for a set, and <code>[a-z0-9]</code> for two ranges. Note that if <code>\</code> character in a range, you need to insert it right after <code>[</code> or just before <code>]</code> . Example pattern: <code>hell[a-y123-]</code> Matching strings: <code>hello</code> , <code>hell1</code> , <code>hell2</code> , <code>hell3</code> , <code>hell-</code> Non-matching strings: <code>hellz</code> , <code>hell4</code> , <code>heloo</code> , <code>he-llo</code>
<code>[^ ]</code> Negate set	Matches any character that is not within the specified set. Example pattern: <code>hell[^a-np-z0-9]</code> Matching strings: <code>hello</code> , <code>hell!</code> Non-matching strings: <code>hella</code> , <code>hell5</code>
<code> </code> Alternation	Matches the entity placed either before or after <code> </code> . Example pattern: <code>hello welcome</code> Matching strings: <code>hello</code> , <code>welcome</code> , <code>helloes</code> , <code>awelcome</code> Non-matching strings: <code>hell</code> , <code>ellow</code> , <code>owelcom</code>
<code>( )</code> Grouping	Groups a set of entities, often used in conjunction with <code> </code> . Also <b>captures</b> the matched entities; on. Example pattern: <code>^(hello hi) there\$</code> Matching strings: <code>hello there</code> , <code>hi there</code> . Non-matching strings: <code>hey there</code> , <code>ahoy there</code>
<code>\</code> Escape	Allows you to escape special characters. Example pattern: <code>Hello\.</code> . Matching strings: <code>Hello.</code> , <code>Hello. How are you?</code> , <code>Hi! Hello...</code> Non-matching strings: <code>Hello</code> , <code>Hello! how are you?</code>

## Quantifiers

So far, you are able to express simple patterns with a limited number of characters. Quantifiers allow you to extend t

Quantifier	Description
<p><b>*</b></p> <p>0 or more times</p>	<p>The entity preceding <b>*</b> must be found 0 or more times.</p> <p>Example pattern: <code>he*llo</code></p> <p>Matching strings: <code>hlllo</code> , <code>hello</code> , <code>heeeello</code></p> <p>Non-matching strings: <code>hallo</code> , <code>ello</code></p>



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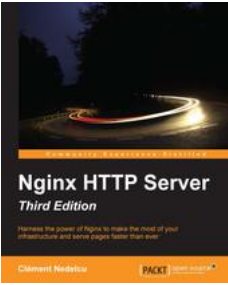
Y

As you probably noticed, the `{` and `}` characters in the regular expressions conflict with the block delimiter `c` syntax language. If you want to write a regular expression pattern that includes curly brackets, you need to place the or double quotes):

## Captures

Pattern	Example of a matching
<code>^(hello hi) (sir mister)\$</code>	hello sir
<code>^(hello (sir))\$</code>	hello sir
<code>^(.*)\$</code>	nginx rocks
<code>^(.{1,3})([0-9]{1,4})([?!]{1,2})\$</code>	abc1234!?
Named captures are also supported through the following syntax: <code>?&lt;name&gt;</code> . Example:	/admin/doc
<code>^(?&lt;folder&gt;[^/]+)/(?&lt;file&gt;.*)\$</code>	

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When you use a regular expression in Nginx, for example, in the context of a `location` block, the buffers that you use in later directives:

```
server {
    server_name website.com;
    location ~* ^/(downloads|files)/(.*)$ {
        add_header Capture1 $1;
        add_header Capture2 $2;
    }
}
```

In the preceding example, the `location` block will match the request URI against a regular expression. A couple of examples would be `/downloads/file.txt`, `/files/archive.zip`, or even `/files/docs/report.doc`. Two parts are captured: `downloads` or `files`, and `$2` will contain whatever comes after `/downloads/` or `/files/`. The `add_header` directive (syntax: `add_header header_name header_value`, see the **HTTP headers module** section) is employed to add headers to the client response for the sole purpose of demonstration.

### Internal requests

Nginx differentiates external and internal requests. External requests directly originate from the client; the URI is the same as the `location` blocks:

```
server {
    server_name website.com;
    location = /document.html {
        deny all; # example directive
    }
}
```

A client request to `http://website.com/document.html` would directly fall into the `location` block.

As opposed to this, internal requests are triggered by Nginx via specific directives. Among the directives offered by the `ngx_http_core_module` are several directives capable of producing internal requests: `error_page`, `index`, `rewrite`, `try_files`, `add_after_body` (from the `ngx_http_addition_module`), the `include` SSI command, and more.

There are two different types of internal requests:

- **Internal redirects:** Nginx redirects the client requests internally. The URI is changed, and the request may then fall into a different `location` block and become eligible for different settings. The most common case of internal redirects is the `rewrite` directive, which allows you to rewrite the request URI.
- **Sub-requests:** These are additional requests that are triggered internally to generate content that is complementary to the original one. A simple example would be with the `addition` module. The `add_after_body` directive allows you to specify a sub-request to be executed after the original one, the resulting content being appended to the body of the original request. The SSI module allows you to insert content with the `include` SSI command.

### error\_page

Detailed in the module directives of the Nginx HTTP Core module, the `error_page` directive allows you to define the server behavior when an error code occurs. The simplest form is that of affecting a URI to an error code:

```
server {
    server_name website.com;
    error_page 403 /errors/forbidden.html;
    error_page 404 /errors/not_found.html;
}
```

When a client attempts to access a URI that triggers one of these errors (such as loading a document or a file that does not exist, resulting in a 404 error), Nginx is supposed to serve the page associated with the error code. In fact, it does not just serve the page; it actually initiates a completely new request based on the new URI.



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Consequently, you can end up falling back on a different configuration, like in the following example:

```
server {
    server_name website.com;
    root /var/www/vhosts/website.com/httpdocs/;
    error_page 404 /errors/404.html;
    location /errors/ {
        alias /var/www/common/errors/;
        internal;
    }
}
```

When a client attempts to load a document that does not exist, they will initially receive a 404 error. We employ to specify that 404 errors should create an internal redirect to `/errors/404.html`. As a result, a new request URI `/errors/404.html`. This URI falls under the location block `/errors/`, so the corresponding configuration



### Note

Logs can prove to be particularly useful when working with redirects and URL rewrites. Be aware that information on internal red you set the `error_log` directive to `debug`. You can also get it to show up at the `notice` level, under the condition `on;` wherever you need it.

A raw but trimmed excerpt from the debug log summarizes the mechanism:

```
->http request line: "GET /page.html HTTP/1.1"
->http uri: "/page.html"
->test location: "/errors/"
->using configuration ""
->http filename: "/var/www/vhosts/website.com/httpdocs/page.html"
-> open() "/var/www/vhosts/website.com/httpdocs/page.html" failed (2: No such file or directory), client: 12
->http finalize request: 404, "/page.html?" 1
->http special response: 404, "/page.html?"
->internal redirect: "/errors/404.html?"
->test location: "/errors/"
->using configuration "/errors/"
->http filename: "/var/www/common/errors/404.html"
->http finalize request: 0, "/errors/404.html?" 1
```

Note that the use of the `internal` directive in the `location` block forbids clients from accessing the `/err` can thus only be accessed through an internal redirect.

The mechanism is the same for the `index` directive (detailed further on in the Index module)—if no file path is provided, Nginx will attempt to serve the specified index page by triggering an internal redirect.

## Rewrite

While the previous directive, `error_page`, is not actually a part of the Rewrite module, detailing its functionality the way Nginx handles client requests.

Similarly to how the `error_page` directive redirects to another location, rewriting the URI with the `rewrite` redirect:

```
server {
    server_name website.com;
    root /var/www/vhosts/website.com/httpdocs/;
    location /storage/ {
        internal;
        alias /var/www/storage/;
    }
    location /documents/ {
        rewrite ^/documents/(.*)$ /storage/$1;
    }
}
```



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Again, a quick peek at the debug log details the mechanism:

```
->http request line: "GET /documents/file.txt HTTP/1.1"
->http uri: "/documents/file.txt"
->test location: "/storage/"
->test location: "/documents/"
->using configuration "/documents/"
->http script regex: "^/documents/(.*)$"
->"^/documents/(.*)$" matches "/documents/file.txt", client: 127.0.0.1, server: website.com, request: "GET /
->rewritten data: "/storage/file.txt", args: "", client: 127.0.0.1, server: website.com, request: "GET /docu
->test location: "/storage/"
->using configuration "/storage/"
->http filename: "/var/www/storage/file.txt"
->HTTP/1.1 200 OK
->http output filter "/storage/test.txt?"
```

With all the different syntaxes and directives, you could easily get confused. Worse—you might get Nginx confused. your rewrite rules are redundant, and cause internal redirects to loop infinitely:

```
server {
    server_name website.com;
    location /documents/ {
        rewrite ^(.*)$ /documents/$1;
    }
}
```

You thought you were doing well, but this configuration actually triggers internal redirects `/documents/anything` `s/anything` . Moreover, since the location patterns are re-evaluated after an internal redirect, `/documents//do` `/documents//documents//documents/anything` .

Here is the corresponding excerpt from the debug log:

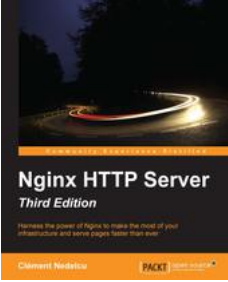
```
->test location: "/documents/"
->using configuration "/documents/"
->rewritten data: "/documents//documents/file.txt", [...]
->test location: "/documents/"
->using configuration "/documents/"
->rewritten data: "/documents//documents//documents/file.txt" [...]
->test location: "/documents/"
->using configuration "/documents/"
->rewritten data: -
>"/documents//documents//documents/file.txt" [...]
->[...]
```

You probably wonder if this goes on indefinitely—the answer is no. The number of cycles is restricted to 10. You are limited to 10 redirects. Anything past this limit and Nginx will produce a `500 Internal Server Error`.

A potential source of sub-requests is the **Server Side Include (SSI)** module. The purpose of SSI is for the server to parse the response to the client in a fashion somewhat similar to PHP or other preprocessors.

Within a regular HTML file (for example), you are offered the possibility of inserting tags corresponding to the comm

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```
<html>
<head>
  <!--# include file="header.html" -->
</head>
<body>
  <!--# include file="body.html" -->
</body>
</html>
```

( Nginx processes these two commands; in this case, it reads the contents of `header.html` and `body.html` and source, which is then sent to the client.

Several commands are at your disposal; they are detailed in the SSI module section in this chapter. The one we are in e `include` command for including a file into another file:

```
<!--# include virtual="/footer.php?id=123" -->
```

The specified file is not just opened and read from a static location. Instead, a whole subrequest is processed by Ngin is inserted instead of the `include` tag.

### Conditional structure

The Rewrite module introduces a new set of directives and blocks among which is the `if` conditional structure:

```
server {
    if ($request_method = POST) {
        [...]
    }
}
```

This allows you to apply a configuration according to the specified condition. If the condition is true, the configuratio

The following table describes the various syntaxes accepted when forming a condition:

Operator	Description
None	The condition is true if the specified variable or data is not equal to an empty string or a string st <div><pre>if (\$string) {     [...] }</pre></div>
<code>=</code> , <code>!=</code>	The condition is true if the argument preceding the <code>=</code> symbol is equal to the argument follow can be read as "if the <code>request_method</code> is equal to <code>POST</code> , then apply the configuration": <div><pre>if (\$request_method = POST) {     [...] }</pre></div> The <code>!=</code> operator does the opposite: "if the request method is not equal to <code>GET</code> , then apply <div><pre>if (\$request_method != GET) {     [...] }</pre></div>



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Operator	Description
<code>~</code> , <code>~*</code> , <code>!~</code> , <code>!~*</code>	<p>The condition is true if the argument preceding the <code>~</code> symbol matches the regular expression.</p> <pre>if (\$request_filename ~ "\.txt\$") {     [...] }</pre> <p><code>~</code> is case-sensitive, <code>~*</code> is case-insensitive. Use the <code>!</code> symbol to negate the matching:</p> <pre>if (\$request_filename !~* "\.php\$") {     [...] }</pre> <p>Note that you can insert the capture buffers in the regular expression:</p> <pre>if (\$uri ~ "^/search/(.*)\$") {     set \$query \$1;     rewrite ^ http://google.com/search?q=\$query; }</pre>
<code>-f</code> , <code>!-f</code>	<p>Tests the existence of the specified file:</p> <pre>if (-f \$request_filename) {     [...] # if the file exists }</pre> <p>Use <code>!-f</code> to test the non-existence of the file:</p> <pre>if (!-f \$request_filename) {     [...] # if the file does not exist }</pre>
<code>-d</code> , <code>!-d</code>	Similar to the <code>-f</code> operator, is used for testing the existence of a directory.
<code>-e</code> , <code>!-e</code>	Similar to the <code>-f</code> operator, is used for testing the existence of a file, directory, or symbolic link.
<code>-x</code> , <code>!-x</code>	Similar to the <code>-f</code> operator, is used for testing whether a file exists and is executable.

As of version 1.8, there is no `else` or `else if`-like instruction. However, other directives allowing you to control sequencing are available.

You might wonder: what are the advantages of using a `location` block over an `if` block? Indeed, in the following example, the `location` block has the same effect:

```
if ($uri ~ /search/) {
    [...]
}
location ~ /search/ {
    [...]
}
```

As a matter of fact, the main difference lies within the directives that can be employed within either block—some can and some can't; on the contrary, almost all the directives are authorized within a `location` block, as you probably know so far. In general, it's best to only insert the directives from the Rewrite module within an `if` block, as other directives are not intended for such usage.

## Directives



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The Rewrite module provides you with a set of directives that do more than just rewriting a URI. The following table with the context in which they can be employed:

Directive	Description
<div>rewrite</div> <div>Context:</div> <div>server ,</div> <div>location</div> <div>if</div>	<div>As discussed previously, the <code>rewrite</code> directive allows you to rewrite the URI of the current request of the said request.</div> <div>Syntax: <code>rewrite regexp replacement [flag];</code></div> <div>Where <code>regexp</code> is the regular expression that the URI should match in order for the replacement to take place. Flag may take one of the following values:</div> <div><div>➤ <code>last</code> : The current rewrite rule should be the last to be applied. After its application, the search for a matching <code>location</code> block is searched for. However, further rewrite instructions will be ignored.</div><div>➤ <code>break</code> : The current rewrite rule is applied, but Nginx does not initiate a new request for the next matching <code>location</code> block(s). All further rewrite directives are ignored.</div><div>➤ <code>redirect</code> : Returns a <code>302 Moved temporarily</code> HTTP response, with the replacement URI in the <code>Location</code> header.</div><div>➤ <code>permanent</code> : Returns a <code>301 Moved permanently</code> HTTP response, with the replacement URI in the <code>Location</code> header.</div><div>➤ If you specify a URI beginning with <code>http://</code> as the replacement URI, Nginx will automatically add the <code>Host</code> header.</div><div>➤ Note that the request URI processed by the directive is a relative URI: It does not contain the domain name. For a request such as <code>http://website.com/documents/page.html</code>, the request URI is <code>/documents/page.html</code>.</div><div>➤ Is decoded: The URI corresponding to a request such as <code>http://website.com/my%20page.html</code> (in the encoded URI, <code>%20</code> indicates a white space character).</div><div>➤ Does not contain arguments: For a request such as <code>http://website.com/page.php?id=1&amp;name=test</code>, the request URI is <code>/page.php</code>. When rewriting the URI, you don't need to consider including the arguments in the replacement URI; Nginx does it for you. If you want Nginx not to include the arguments after the rewritten URI, you can use the <code>q=</code> flag at the end of the replacement URI: <code>rewrite ^/search/(.*)\$ /search.php?q=\$1? </code></div><div>➤ Examples:</div><div><pre>rewrite ^/search/(.*)\$ /search.php?q=\$1; rewrite ^/search/(.*)\$ /search.php?q=\$1?; rewrite ^ http://website.com; rewrite ^ http://website.com permanent;</pre></div></div>
<div>break</div> <div>Context:</div> <div>server ,</div> <div>location</div> <div>if</div>	<div>The <code>break</code> directive is used to prevent further rewrite directives. Past this point, the URI is fixed and no further processing is done.</div> <div>Example:</div> <div><pre>if (-f \$uri) {     break; # break if the file exists } if (\$uri ~ ^/search/(.*)\$) {     set \$query \$1;     rewrite ^ /search.php?q=\$query?; }</pre></div> <div>This example rewrites <code>/search/anything</code> -like queries to <code>/search.php?q=anything</code>. However, for requests that match the <code>if</code> condition (such as <code>/search/index.html</code>), the <code>break</code> instruction prevents Nginx from rewriting the URI.</div>





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