在CentOS 6.9 x86_64的nginx 1.12.2上安装第三方模块set-misc-nginx-module实录

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订阅专栏

set-misc-nginx-module模块是标准的HttpRewriteModule指令的扩展，提供更多的功能，如URI转义与非转义、JSON引述、Hexadecimal/MD5/SHA1/Base32/Base64编码与解码、随机数等等。在后面的应用中，都将会接触使用到这个模块的。该模块是由章亦春先生开发的，他开发的其他模块应用也会使用到这个模块的。充分使用nginx非阻塞模式，对性能上有极大的提高，我个人认为很有必要去弄懂弄透nginx，通过自己去动手动脑用实例来加以验证，不断的对模块参数命令加以理解，在实际环境中应用自如。
这两个模块的主页分别是
标准模块ngx_http_rewrite_module
http://nginx.org/en/docs/http/ngx_http_rewrite_module.html
第三方模块set-misc-nginx-module
ngx_set_misc - Various set_xxx directives added to nginx's rewrite module (md5/sha1, sql/json quoting, and many more)
https://github.com/openresty/set-misc-nginx-module

下载源码
cd /usr/local/src
wget https://github.com/openresty/set-misc-nginx-module/archive/v0.31.tar.gz
wget https://github.com/simpl/ngx_devel_kit/archive/v0.3.0.tar.gz
tar zxvf v0.31.tar.gz
tar zxvf v0.3.0.tar.gz

编译安装
cd nginx-1.12.2
./configure --with-http_ssl_module \
--with-pcre=/usr/local/src/pcre-8.41 \
--with-zlib=/usr/local/src/zlib-1.2.11 \
--with-openssl=/usr/local/src/openssl-1.1.0g \
--with-http_stub_status_module \
--add-module=/usr/local/src/ngx_cache_purge \
--add-module=/usr/local/src/ngx_req_status \
--add-module=/usr/local/src/echo-nginx-module \
--add-module=/usr/local/src/ngx_devel_kit-0.3.0 \
--add-module=/usr/local/src/set-misc-nginx-module-0.31
make
make install
注意这里set-misc-nginx-module依赖ngx_devel_kit模块，且--add-module=ngx_devel_kit一定要早于--add-module=set-misc-nginx-module

配置

```
location /test {
    echo "uri = $uri";
    echo "request_uri = $request_uri";
    echo "name: $arg_name";
    echo "class: $arg_class";
    set_unescape_uri $name $arg_name;
    set_unescape_uri $class $arg_class;
    echo "name: $name";
    echo "class: $class";
}
```

更完整的nginx.conf配置参见

https://github.com/taoyunxing/github_test/blob/master/nginx.conf

测试

curl -v 'http://localhost:8082/test'
curl 'http://localhost:8082/test?a=3&b=4'
curl 'http://localhost:8082/test/hello%20world?a=3&b=4'

```
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl -v 'http://localhost:8082/test'
* About to connect() to localhost port 8082 (#0)
*   Trying ::1... Connection refused
*   Trying 127.0.0.1... connected
* Connected to localhost (127.0.0.1) port 8082 (#0)
> GET /test HTTP/1.1
> User-Agent: curl/7.19.7 (x86_64-redhat-linux-gnu) libcurl/7.19.7 NSS/3.21 Basic ECC zlib/1.2.3 libidn/1.18 libssh2/1.4.2
> Host: localhost:8082
> Accept: */*
>
< HTTP/1.1 200 OK
< Server: nginx/1.12.2
< Date: Sat, 06 Jan 2018 10:08:31 GMT
< Content-Type: application/octet-stream
< Transfer-Encoding: chunked
< Connection: keep-alive
<
uri = /test
request_uri = /test
* Connection #0 to host localhost left intact
* Closing connection #0
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl 'http://localhost:8082/test?a=3&b=4'
uri = /test
request_uri = /test?a=3&b=4
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl 'http://localhost:8082/test/hello%20world?a=3&b=4'
uri = /test/hello world
request_uri = /test/hello%20world?a=3&b=4
```

curl 'http://localhost:8082/test?name=Tom&class=3'
curl 'http://localhost:8082/test?name=hello%20world&class=9'
curl 'http://localhost:8082/test?NAME=Marry'
curl 'http://localhost:8082/test?Name=Jimmy'

```
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl 'http://localhost:8082/test?name=Tom&class=3'
uri = /test
request_uri = /test?name=Tom&class=3
name: Tom
class: 3
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl 'http://localhost:8082/test?name=hello%20world&class=9'
uri = /test
request_uri = /test?name=hello%20world&class=9
name: hello%20world
class: 9
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl 'http://localhost:8082/test?NAME=Marry'
uri = /test
request_uri = /test?NAME=Marry
name: Marry
class:
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl 'http://localhost:8082/test?Name=Jimmy'
uri = /test
request_uri = /test?Name=Jimmy
name: Jimmy
class:
[root@LECDN-BJ-SJS-CNC-2-001 ~]#
```

curl 'http://localhost:8082/test?name=hello%20world&class=9'

```
[root@LECDN-BJ-SJS-CNC-2-001 ~]# curl 'http://localhost:8082/test?name=hello%20world&class=9'
uri = /test
request_uri = /test?name=hello%20world&class=9
name: hello%20world
class: 9
name: hello world
class: 9
```

更复杂的指令待后续继续补充

参考文献
[1].https://github.com/openresty/set-misc-nginx-module
[2].http://www.ttlsa.com/nginx/nginx_set-misc-nginx-module-module-description/
[3].https://github.com/openresty/set-misc-nginx-module#installation
[4].http://www.ttlsa.com/nginx/nginx-var-2/