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# **chaos2sae Documentation**

***Release 1.0.120425***

**Zoom.Quiet**

**Sep 27, 2017**



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## Contents

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<b>1</b>		<b>3</b>
1.1	0: ?!	3
1.2	1:	10
1.3	2: ?	16
1.4	.	23
1.5	.	23
1.6	.	24
1.7	~	24
1.8	.	28



, 42 SAE ;-)

- - „ Zoom.Quiet ...
- - : <https://github.com/ZoomQuiet/chaos2sae>
  - : <http://chaos2sae.RTFD.org>
  - : OBP
  - : OBP
  - : <https://bitbucket.org/ZoomQuiet/ok.urisa>
- TODO
  - 
  -



## 0: ?!

, 42 SAE ,,,

:

- 42 ?! ,,!
- 42 , Linux/Unix ~!,,,
- 42 , ,, JS ,,,
- 42 , ,” “!
- 42 , ,/,,, ;-)
- 42 , ,(git/apt/yum/brew ...)

, ;-)

### Warning:

- !

### See also:

- :
  - - Sina App Engine
  - Python

- SAE ?
- Python ?

- Pythonic ?

, !

{412vol.49}: SAE

- SAE
- :
- :SAE
- PaaS / ...

...

, , SINA , SAE PaaS , GAE ,,,...

- ,,,
- ,,,

, SAE ,, C++/JAVA/.NET ,,,

---

**Note:** (~\_~)

- ,, Python Git
- M\$ ,,,,

---

**Warning:**

- SAE ?!
- ~~~ , go!

**00:00”**

! - ,: 00:00

: dev\_server

- ,:
  - MacOS X 10.7.3
  - Python 2.7.1
- , Linux !
- :



- \$,;
- # 'root',;

## SAE

```
$ git clone http://github.com/SAEPython/saepythondevguide.git
$ sudo python setup.py install
$ dev_server.py --help
Usage: dev_server.py [options]

Options:
  -h, --help            show this help message and exit
  -p PORT, --port=PORT  Which port to listen
  --mysql=MYSQL         Mysql configuration: user:password@host:port
  --storage-path=STORAGE
                        Directory used as local stoarge
```

## SAE saecloud

```
$ saecloud version
SAE command line v0.0.1
$ saecloud -h
usage: saecloud [-h] {version,export,deploy} ...

positional arguments:
  {version,export,deploy}
                        sub commands
  export                export source code to local directory
  deploy                deploy source directory to SAE
  version               show version info

optional arguments:
  -h, --help            show this help message and exit
```

0-1 SAE , , SAE ;

- -> ;
- **'Python'** \_ ...
- , urisaok

**Note:** !

Python ,...

SAE !

SAE :

Fig. 1.1: 0-1 SAE

```
/path/2/you/urisoak/
+- config.yaml
+- index.wsgi
```

94!

,Hallo World !

index.wsgi:

```
import sae

def app(environ, start_response):
    status = '200 OK'
    response_headers = [('Content-type', 'text/plain')]
    start_response(status, response_headers)
    return ['Hello, world!']

application = sae.create_wsgi_app(app)
```

config.yaml:

```
---
name: urisoak
version: 1
...
```

,()

saecloud

```
$ saecloud deploy
Deploying http://1.urisaok.sinaapp.com
Updating cache
Finding changes
Pushing to server... done
```

0-2 ,!

**Sina App Engine** 我的首页 | 应用仓库 | 文档

python

urisaok » 代码管理

设为默认	版本	链接
<input checked="" type="radio"/>	1 部署于 2011-11-25 16:47:02	<a href="http://1.urisaok.sinaapp.com">http://1.urisaok.sinaapp.com</a> 点
<input type="radio"/>	2 部署于 2012-04-23 14:37:14	<a href="http://2.urisaok.sinaapp.com">http://2.urisaok.sinaapp.com</a> 点

**代码部署说明:**

1. 请使用svn部署代码。
2. 文件名或目录名不允许含有以下字符：",\*,?,<,>,|，另外文件或文件名的开始与结束不能为点。
3. sae svn 不支持 mv 操作。
4. 上传单个文件大小不超过20M。
5. 单个目录下的文件个数不能超过2000个。
6. 每个应用代码总大小不超过100M。

Fig. 1.2: 0-2

**Note:** (~~)

,,,;

, SAE :

- 10
- x , URL :
  - <http://x.sinaapp.com/>
- , URL:
  - <http://sinaapp.com/>

cURL :

```
$ curl -v 1.urisaok.sinaapp.com
* About to connect() to 1.urisaok.sinaapp.com port 80 (#0)
* Trying 220.181.136.234... connected
* Connected to 1.urisaok.sinaapp.com (220.181.136.234) port 80 (#0)
> GET / HTTP/1.1
```

```
> User-Agent: curl/7.21.4 (universal-apple-darwin11.0) libcurl/7.21.4 OpenSSL/0.9.8r
↳zlib/1.2.5
> Host: 1.urisaok.sinaapp.com
> Accept: */*
>
< HTTP/1.1 200 OK
< Server: nginx/1.1.0
< Date: Wed, 25 Apr 2012 13:57:24 GMT
< Content-Type: text/plain
< Connection: close
< Set-Cookie: saeut=14.117.42.241.1335362244745161; path=/; max-age=311040000
< Via: 10.73.26.28
< Content-Length: 13
<
* Closing connection #0
Hello, world!
```

http ,,,

0-3 tumx ,;-)

```
zoomq @ ZQ111216MBP in ~/Works/@SAE/urisaok on SAE!
$ saecloud deploy
Deploying http://1.urisaok.sinaapp.com
Updating cache
Finding changes
Pushing to server... done

zoomq @ ZQ111216MBP in ~/Works/@SAE/urisaok on SAE4hollo
$
2 import sae
3
4 def app(environ, start_response):
5     status = '200 OK'
6     response_headers = [('Content-type', 'text/plain')]
7     start_response(status, response_headers)
8     return ['Hallo, world!']
9
10 application = sae.create_wsgi_app(app)
```

Fig. 1.3: 0-3 tumx

- `tmux ,,,:`
  - `., shell`
  - `tmux a -t 0 0 'tumx' _ session`
- `., saecloud`
- `,`

• ,

7:01”

, ,!

,,, SAE :

```
^  `->saecloud deploy
|      `-> curl
|
+-----/
```

!

SAE API REST

,:

- *POST* ?
- ?
- *base64* ?
- *md5* ?
- ?
- ?
- ?
- ...

Hg

,,, Hg !

? :

- ‘EPE-374’\_ ~ Choosing a distributed VCS for the Python project ( svn/hg/git/bzr)
- []Git Mercurial | TWPUG::Kiang

,~ ’’’‘?’!

- ,,,,

Hg :

- Hg
- Hg Init by Joel
- Hg Init ()

:

- Mercurial

- hg

```
zoomq @ ZQ111216MBP in ~/Works/@SAE/urisaok on SAE
$ hg ll -l13
@ 32:9707864732a9 2012-04-26 fixed KVDB key usage SAE tip(ZoomQuiet)
|
| o 31:9b1540fd2996 2012-04-26 collection v1 zip codes SAEv1(ZoomQuiet)
| |
| | o 30:1abe974339eb 2012-04-25 hollo->hallo SAE4hollo(ZoomQuiet)
| | |
| | o 29:1e8ea75ad64c 2012-04-25 simple hollo world demo SAE4hollo(ZoomQuiet)
| | /
| o 28:766dcd81a143 2012-04-25 revert as v1 old style.. SAEv1(ZoomQuiet)
| /
o 27:1b0d649739dc 2012-04-25 appended SAE py shell middleware SAE(ZoomQuiet)
|
```

Fig. 1.4: 0-4 hg

1:

, VB/C/C++/.NET/PHP ... Python ?!

- ,, Python
- ,,

Warning:

- !

Python , hallo world ,,

„ Python ,,,,

1-1 Python „ Python :

: Py

See also:

- Python
- Python
- Tutorial

7:42”

....

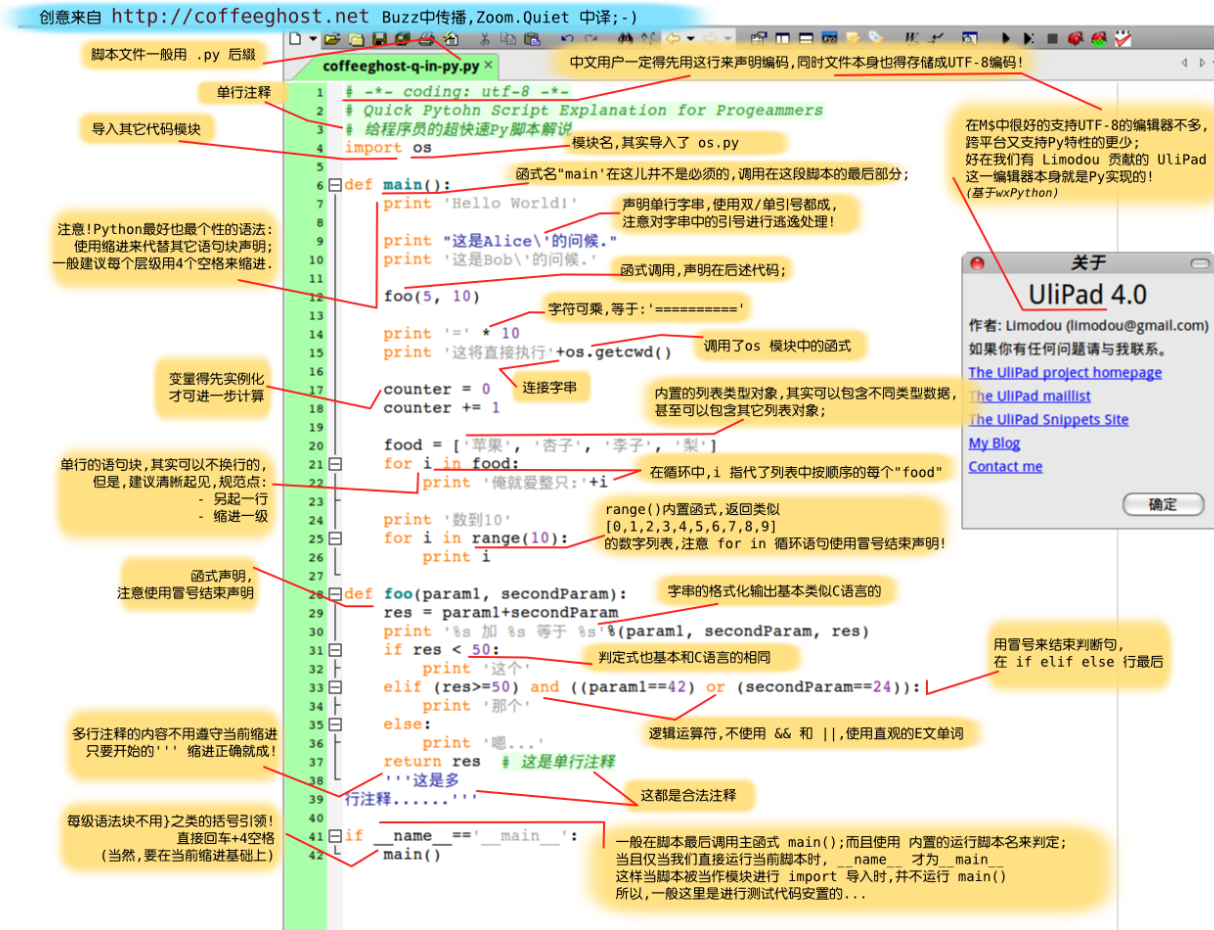


Fig. 1.5: 1-1 Python

,,, SAE

- GAE , SDK,
- SAE dev\_server !

: 1-2 dev\_server.py :

- 8080 ,,
- , dev\_server index.wsgi ,!

```

$ dev_server.py
MySQL config not found
* Running on http://localhost:8080/
* Restarting with reloader
MySQL config not found
127.0.0.1 - - [25/Apr/2012 22:51:24] "GET / HTTP/1.1" 200 -

40 app = Bottle()
41
42 @app.route('/')
43 def hello():
44     return "Hello, world! - Bottle @ SAE 4 urisaok!{v12.0
1.12} for YY talking.."
45
46 @app.route('/chk/', method="POST")
47 def chk():
48     uri = request.forms.get('uri')
49     print uri

```

```

zoomq @ ZQ111216MBP in ~/Works/@SAE/urisaok on SAE-M0110
$ curl -i localhost:8080
HTTP/1.0 200 OK
Content-Length: 67
Content-Type: text/html; charset=UTF-8
Server: Werkzeug/0.8.2 Python/2.7.1
Date: Wed, 25 Apr 2012 14:51:24 GMT

Hello, world! - Bottle @ SAE 4 urisaok!{king..

```

Fig. 1.6: 1-2 dev\_server.py

## Bottle

?

~web

- , Python Web!
- ? Python Web
- , ? ?
- CPyUG ,: ! ,,,...

SAE web , , 0, Bottle ;-)

- Docs - Bottle 0.8
- Bottle TODO-list — Bitbucket

, SAE , web Hallo World Bottle :



```
import sae
from bottle import Bottle, run

app = Bottle()
@app.route('/')
def hello():
    return "Hello, world! - Bottle"
application = sae.create_wsgi_app(app)
```

,3(,;-):

```
@app.route('/') # , URL
def hello(): #
    return "Hello, world! - Bottle"
# return
```

## URIsAok

,: API REST;

Bottle ,:

- URL *POST*
- , *base64 / md5*
- „

, 1-3 /chk/

```
http://sina.com
http://open.pc120.com/phish/?appkey=k-60666&q=aHR0cDovL3NpbmEuY29t&timestamp=1335367944.075&sign=3a945e6d400562447fa734
{'phish': 0, 'success': 1}
127.0.0.1 - - [25/Apr/2012 23:32:24] "POST /chk/ HTTP/1.1" 200 -
* Detected change in 'index.wsgi', reloading
* Restarting with reload
MySQL config not found
usage:
15
16 @app.route('/chk/', method="POST")
17 def chk():
18     uri = request.forms.get('uri')
19     print uri
20     result = _askCloud(cfg.APITYPE, uri)
21     return "/chk %s"% result
22
23 import base64
```

Fig. 1.7: 1-3 /chk/

, 50...

```
1 # -*- coding: utf-8 -*-
2 VERSION = "urisaok v11.12.28"
3 import sae
4 import urllib2 as urllib
5 from bottle import Bottle, request
6 app = Bottle()
```

```
7
8 @app.route('/')
9 def hello():
10     return '''%s powered by Bottle + SAE !
11     usage:
12     $ curl -d 'uri=http://sina.com' 1.urisaok.sinaapp.com/chk/
13     '''% VERSION
14
15 @app.route('/chk/', method="POST")
16 def chk():
17     uri = request.forms.get('uri')
18     print uri
19     result = _askCloud(APITYPE, uri)
20     return "/chk %s"% result
21
22 import base64
23 import time
24 from hashlib import md5
25 APPKEY = "k-60666"
26 SECRET = "99fc9fdb6761f7d898ad25762407373"
27 OPEN_HOST = "open.pc120.com"
28 APITYPE = "/phish/"
29 PHISHTYPE = {'-1': ''
30             , '0': ''
31             , '1': ''
32             , '2': ', '
33             }
34
35 def _askCloud(api_path, url):
36     args = __genQueryArgs(api_path, url)
37     api_url = "http://%s%s%s"% (OPEN_HOST, APITYPE ,args)
38     print api_url
39     result = eval(urllib.urlopen(api_url).read())
40     print result
41     if result['success'] == 1:
42         doc = result['phish']
43         return "%s:: %s"% (doc, PHISHTYPE[str(doc)])
44     else:
45         return result
46
47 def __genQueryArgs(api_path, url):
48     args = "appkey=" + APPKEY
49     args += "&q=" + base64.urlsafe_b64encode(url)
50     args += "&timestamp=" + "%.3f"% (time.time())
51     sign_base_string = api_path + "?" + args
52     args += "&sign=" + md5(sign_base_string + SECRET).hexdigest()
53     return args
54
55 application = sae.create_wsgi_app(app)
```

:

- *POST*

```
@app.route('/chk/', method="POST") # ,
def chk():
    uri = request.forms.get('uri') # request.forms
```

• :

```
args += "&q=" + base64.urlsafe_b64encode(url) # urlbase64
args += "&timestamp=" + "%.3f" % (time.time()) #
sign_base_string = api_path + "?" + args
args += "&sign=" + md5(sign_base_string + SECRET).hexdigest() # md5
```

• ,:

```
import urllib2 as urllib
...
result = eval(urllib.urlopen(api_url).read())
|           |           | +-
|           |           +-- url
|           +--
+-- JSON , Py dict , ,
```

27:00”

„? , Bottle , ,:

• „,8

– „„„

– : eval(urllib.urlopen(api\_url).read())



Fig. 1.8: 1-4

• „, urllib2

• SAE ,

• „„„„

• ,

–

– „„„„„

• , print „„„„

!

?!

- !

**Warning:**

- ...

**ps:**

saecloud SAE !,,

**pps:**

*config.yaml* :

```
---
name: urisaok
version: 2
...
```

- *saecloud deploy* ,
- , OK , SAE ,...

## 2: ?

,:

- SAE
- API REST
- `curl -d "uri=http://sina.com" urisaok.sinaapp.com/chk/` ,!

**agentzh**

- 
- ““”

:

- ”
- *POST* ,,,
- ,

...

:

- 
- ,,,,

,,,

SAE :

- {412vol.49}: SAE
- SAE , :
- SAE ,
- ,
- ,!

,,, SAE !

#### Warning:

- !

## 27:42”

, SAE Web

- MySQL RDC
- Memcache
- Storage
- KVDBkey-value
- Cron
- Image
- FetchURL
- Mail
- TaskQueue
- DeferredJob
- Counter
- Rank

...

:

- ,, SAE

- ,,:
  - ,,
  - ,,
- ,-
- , KVDB !

## KVDB

SAE Python :

```
import sae.kvdb

kv = sae.kvdb.KVClient()

k = 'foo'
kv.set(k, 2)
kv.delete(k)

kv.add(k, 3)
kv.get(k)

kv.replace(k, 4)
kv.get(k)

print kv.get_info()
```

:

- *kv.get\_info()* ?
- *KVDB* ,? url ?

...

,, Python ,!

,: *qchk*

```
@app.route('/qchk', method="POST")
def qchk():
    url = request.forms.get('uri').split("/")
    if 1 == len(url):
        uri = url[0]
    else:
        uri = url[2]
    k = uri
    import sae.kvdb
    kv = sae.kvdb.KVClient()
    v = kv.get(k)
    print "kv.get(uri)~ type=%s var=%s"%(type(v),v)
    return "debugging..."
```

*KVDB* ,...

, `dev_server`, `localhost:8080/qchk/` :

```
Traceback (most recent call last):
  File "/usr/local/bin/bottle.py", line 737, in _handle
    return route.call(**args)
  File "/usr/local/bin/bottle.py", line 1454, in wrapper
    rv = callback(*a, **ka)
  File "index.wsgi", line 57, in qchk
    import sae.kvdb
ImportError: No module named kvdb
127.0.0.1 - - [26/Apr/2012 11:42:28] "POST /qchk/ HTTP/1.1" 500 -
```

```
, dev_server KVDB ,,,
```

$$, \therefore -> ->$$

„ SAE „ *print* ?

SAE PaaS !!

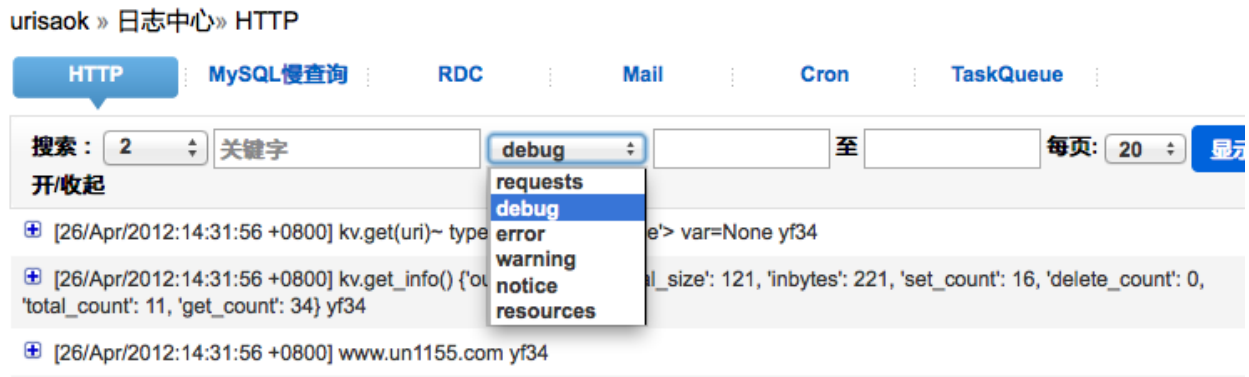


Fig. 1.9: 2-1

...

- ,
- 5
- *print* , *debug* ,,,

```
print "kv.get(uri)~ type=%s var=%s"%(type(v),v)
```

```

      |           |
      |           +-----+
      +-----+-----+           |
                                V           V
[26/Apr/2012:14:31:56 +0800] kv.get(uri)~ type=<type 'NoneType'> var=None yf34

```

„.get() , None

•

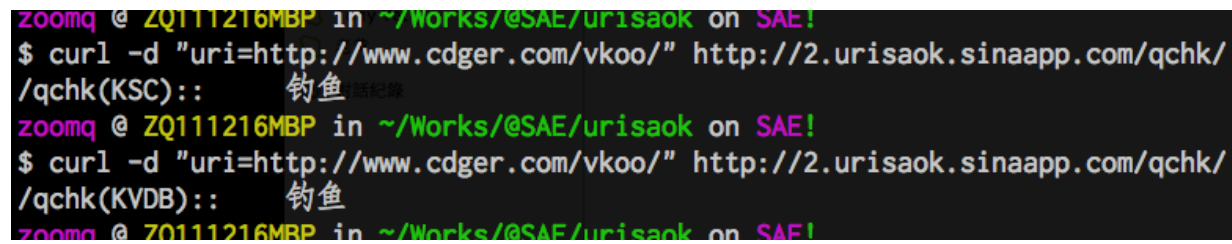
```

@app.route('/qchk', method="POST")
def qchk():
    url = request.forms.get('uri').split("/")
    if 1 == len(url):
        uri = url[0]
    else:
        uri = url[2]
    k = uri
    print k
    import sae.kvdb
    print "kv.get_info() %s" % kv.get_info()
    kv = sae.kvdb.KVClient()
    v = kv.get(k)
    print "kv.get(uri)~ type=%s var=%s" % (type(v), v)
    if None == v:
        result = _askCloud(cfg.APITYPE, uri)
        kv.add(k, result)
        return "/qchk(KSC)::\t %s" % cfg.PHISHTYPE[str(result)]
    else:
        return "/qchk(KVDB)::\t %s" % cfg.PHISHTYPE[str(v)]

```

: -, -,

, cURL ;: 2-2 curl :



```

zoomq @ ZQ111216MBP in ~/Works/@SAE/urisaok on SAE!
$ curl -d "uri=http://www.cdger.com/vkoo/" http://2.urisaok.sinaapp.com/qchk/
/qchk(KSC)::
zoomq @ ZQ111216MBP in ~/Works/@SAE/urisaok on SAE!
$ curl -d "uri=http://www.cdger.com/vkoo/" http://2.urisaok.sinaapp.com/qchk/
/qchk(KVDB)::
zoomq @ ZQ111216MBP in ~/Works/@SAE/urisaok on SAE!

```

Fig. 1.10: 2-2 curl

,: 2-3

**BINGO!**

**42:01"**

~ ,,, ,?

- „
- „? ?
- print ,?
- „„„„„

„„„„„

**Note:** *KVDB* key

- *KVDB* , memcached ;
- , Very long URL aliases not correctly cached in memcache , URL key ...



urisaok » 日志中心 » HTTP

[HTTP](#)
[MySQL慢查询](#)
[RDC](#)
[Mail](#)
[Cron](#)
[TaskQueue](#)

搜索:

[开/收起](#)

- [26/Apr/2012:14:46:34 +0800] kv.get(uri)~ type=<type 'int'> var=1 tc28
- [26/Apr/2012:14:46:34 +0800] www.cdger.com tc28
- [26/Apr/2012:14:46:30 +0800] {'phish': 1, 'success': 1} tc28
- [26/Apr/2012:14:46:29 +0800] http://open.pc120.com/phish/?appkey=k-60666&q=d3d3LmNkZ2VyLmNvbQ==&timestamp=1335422789.931&sign=49584ca54e080096e8a48e7eaf9cb221 tc28
- [26/Apr/2012:14:46:29 +0800] kv.get(uri)~ type=<type 'NoneType'> var=None tc28
- [26/Apr/2012:14:46:29 +0800] www.cdger.com tc28

Fig. 1.11: 2-3

- , URL key *KVDB* ,
- *urlsafe\_b64encode(uri)* ...
- , SAE ,,,! !

∴

- : <https://bitbucket.org/ZoomQuiet/ok.urisa>
- : <http://urisaok.sinaapp.com/>
- :
  - {1229vol.38}ZQ: SAE
  - {112vol.39}ZQ: SAE
  - {426vol.51}ZQ: KVDBSAE

## config.yaml

```

---
name: urisaok
version: 2
...

```

## index.wsgi

```
1  # -*- coding: utf-8 -*-
2  VERSION = "urisaok v12.4.25"
3  import sae
4  import urllib2 as urllib
5  from bottle import Bottle, request
6
7  app = Bottle()
8
9  @app.route('/')
10 def hello():
11     return '''Hollo, there!
12     - Bottle @ SAE 4 urisaok!
13     - {v12.04.23} from YY talking..
14     usage:
15     $ curl -d 'uri=hrrp://sina.com' http://urisaok.sinaapp.com/qchk
16     or
17     $ curl -d 'uri=hrrp://sina.com' http://urisaok.sinaapp.com/chk
18         +-- want check url
19     '''
20
21 class Borg():
22     '''base http://blog.youxu.info/2010/04/29/borg
23     -
24     '''
25     __collective_mind = {}
26     def __init__(self):
27         self.__dict__ = self.__collective_mind
28     APPKEY = "k-60666"
29     SECRET = "99fc9fdb6761f7d898ad25762407373"
30     OPEN_HOST = "open.pcl20.com"
31     APITYPE = "/phish/"
32     PHISHTYPE = {'-1': ''
33                  , '0': ''
34                  , '1': ''
35                  , '2': ', '
36                  }
37     # init all var
38     cfg = Borg()
39
40 @app.route('/chk/', method="POST")
41 @app.route('/chk', method="POST")
42 def chk():
43     uri = request.forms.get('uri')
44     result = _askCloud(cfg.APITYPE, uri)
45     return "/chk:: %s"% cfg.PHISHTYPE[str(result)]
46
47 @app.route('/qchk/', method="POST")
48 @app.route('/qchk', method="POST")
49 def qchk():
50     url = request.forms.get('uri').split("/")
51     if 1 == len(url):
52         uri = url[0]
53     else:
54         uri = url[2]
55     #k = urlsafe_b64encode(uri)
56     k = uri
57     print k
58     import sae.kvdb
```

```

59 #print "kv.get_info() %s"% kv.get_info()
60 kv = sae.kvdb.KVClient()
61 v = kv.get(k)
62 print "kv.get(uri)~ type=%s var=%s"%(type(v),v)
63 if None == v:
64     result = _askCloud(cfg.APITYPE, uri)
65     kv.add(k, result)
66     return "/qchk(KSC)::\t %s" % cfg.PHISHTYPE[str(result)]
67 else:
68     return "/qchk(KVDB)::\t %s" % cfg.PHISHTYPE[str(v)]
69
70 import base64
71 import time
72 from hashlib import md5
73 from base64 import urlsafe_b64encode
74 def _askCloud(api_path, url):
75     args = __genQueryArgs(api_path, url)
76     api_url = "http://%s%s%s"%(cfg.OPEN_HOST, cfg.APITYPE ,args)
77     print api_url
78     result = eval(urllib.urlopen(api_url).read())
79     print result
80     if result['success'] == 1:
81         return result['phish']
82     else:
83         return result
84
85 def __genQueryArgs(api_path, url):
86     args = "appkey=" + cfg.APPKEY
87     args += "&q=" + base64.urlsafe_b64encode(url)
88     args += "&timestamp=" + "%.3f" % (time.time())
89     sign_base_string = api_path + "?" + args
90     args += "&sign=" + md5(sign_base_string + cfg.SECRET).hexdigest()
91     return args
92
93 application = sae.create_wsgi_app(app)
94 #from sae.ext.shell import ShellMiddleware
95 #application = sae.create_wsgi_app(ShellMiddleware(app, '1q2w3e4r5t'))

```



- Zoom.Quiet
- Python / ""OBP

- 130306 JS
- 120424 Zoom.Quiet ...
- 120412 Zoom.Quiet {vol.49}: SAE
- 120112 Zoom.Quiet {vol.39}ZQ: SAE
- 111229 Zoom.Quiet {vol.36}:
- 111211 Zoom.Quiet SAE

# *re*StructuredText

## Shinx

:

### Sphinx - pymotwcn

- <http://code.google.com/p/pymotwcn/wiki/SphinxprojectHowto>

.

URL,,;URL;

- : <http://wiki.woodpecker.org.cn/moin/ObpLovelyPython>
- : <http://bit.ly/2QA425>
- ! <http://bit.ly> ;
- :,,URL;

```
def foo() :  
    print "Love Python, Love FreeDome"  
    print "E,.0123456789,,. "
```

.. code-block:: :

```
.. code-block:: python
   :linenos:

   def foo():
       print "Love Python, Love FreeDome"
       print "E,.0123456789,,. "
```

:

```
1 def foo():
2     print "Love Python, Love FreeDome"
3     print "E,.0123456789,,. "
```

:

```
.. literalinclude:: example.py
   :language: python
```

:

```
@route('%s/%sini.urlprefix')
def index():
    __urlog("INFO","idx++")
    return template('index.tpl',urlprefix=ini.urlprefix)
```

,:

No matter where you go, there you are.

—Buckaroo Banzai

:

**Note:** (~\_~)

- This icon signifies a tip, suggestion, or general note.

**Warning:** (#\_#)

- ...

**See also:**

(^.^)

- ...

:

'''

:

```
PCS*
```

- 
- 
- 
- 
- 

## rST

- „html
- **rST** :
  - 
  - :

```
index.rst
,:
.. _chapter2index:

,:
:ref:` <chapter2index>`
!
```

/

- ,/
- **rST** :
  - 
  -

```
.. _fig_2_4:
.. figure:: _static/figs/tmux-curl-test.png

2-4
```

, 2-4 , “2-4”

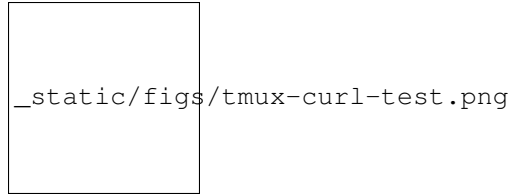


Fig. 1.12: 2-4

/, html /( <sub> , <sup> ) , rST :

```
H\ :sub:`2`\ O
E = mc\ :sup:`2`
```

:

H<sub>2</sub>O

E = mc<sup>2</sup>

**Note:** :

”””

rST

```
=====
A      not A
=====
False  True
True   False
=====
```

,:

```
.. list-table::
   :widths: 15 10 30
   :header-rows: 1

   * - Treat
     - Quantity
     - Description
   * - Albatross
     - 2.99
     - On a stick!
   * - Crunchy Frog
     - 1.49
     - If we took the bones out, it wouldn't be
       crunchy, now would it?
   * - Gannet Ripple
```

- 1.99

- On a stick!

Table 1.1:

Treat	Quantity	Description
Albatross	2.99	On a stick!
Crunchy Frog	1.49	If we took the bones out, it wouldn't be crunchy, now would it?
Gannet Ripple	1.99	On a stick!

reSTsections

4

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=====

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^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

""""""""""""""""""""""""""""

""""""""""""""""""""""""""""

- !:
- 1
  - 2
  - ...
- :