# reference-suite.wt

File: /home/volker/webtest/reference-suite.wt

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Webtest test suites are simple text files in UTF-8 (without BOM). Line endings may be  $\n$  or  $\n$  and you are stupid and ugly if you use the later. The line length should not exceed 4000 characters.

Lines "starting" with a # are comments and are ignored. The # need not be the very first character on a line: # is considered 'start of comment' iff it is the first non-whitespace charater on a line.

Individual test cases are introduced like this (test case name surrounded by lines of - signs):

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```
The Name of the Test Case
```

See below: Global is such a testcase. Unfortunately Global is as very special testcase. So please skip to the "General Structure of Test Cases" test case.

Notes on test names: Test names should be uniq in one suite and they should not contain commas (",") in the name. Rational: This allows to select individual tests from a suite during a webtest run with the -tests option.

## 1 Global

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Global

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Note: You should not try to understand the "Global" section before familiarizing yourself with general testcases as Global is *not* a testcase by itself.

If the very first test in a test suite is named "Global" than this test will not be run but serve as a template for all subsequent tests: Settings, Variables, Header fields and Response checks are inherited from global to each test. The test may overwrite them. Body and Tag checks cannot be overwritten (as the do not contain some uniq id to identify them): Body and Tag conditions/checks from global are just added to each test.

Global is also used to keep cookies, e.g. login cookies which should be present in subsequent tests. So Global acts like a cookie jar.

GET http://unused.for/global

RESPONSE

Normly we expect to get 200. Overwrite in test if you need to test for e.g. 404 Status-Code == 200

**SETTINGS** 

Any request taking longer than 45 seconds is considered an error.

Max-Time := 45000

CONST

The global BaseUrl of our test server.

BaseUrl := http://localhost:8080

1.1 General Structure of Test Cases

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General Structure of Test Cases

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The most basic and simple test case: See if a server answers.

After the test case header (——-\n<Name>\n——-) several sections describe various aspects of the test. A Section is intruduced by an all caps section name starting at the first character of a line. Individual setting in a setting are indented by (at least) one tab '\t'. You may not indent with spaces.

The first section is special: It names the request method and URL and must be the first section, cannot be omitted an has no sub-elements. All other section are optional and may occur in any order. The current test below contains just the RESPONSE section.

Method may be "GET" or "POST". The URL must be a valid, full qualified URL. https works like expected.

```
GET http://host.to.ping/path.html
```

The response section: In this section the various header fields of the response can be checked.

#### RESPONSE

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```
Check that the server answered with 200 status code. Status-Code == 200
```

### 1.2 A simple example

```
_____
```

```
A simple example
```

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Let's make a POST-request, send some parameters and check the result.

```
POST http://www.domain.org/path/feedback
```

#### PARAM

```
send three parameters (automatically encoded) in request
```

```
name := John Doe
city := London
comment := Cool stuff :-)
```

#### RESPONSE

Check that the server answered with 200 status code.

```
Status-Code == 200
```

#### BODY

Check that the body contains some text

```
Txt ~= "Thank you for your feedback John Doe"
```

# 2 Constructing a request

A request is constructed from the following parts in a test:

- The URL is taken form GET or POST section
- Parameters which are sent from the PARAM section
- Manually set header fields from the HEADER section
- Cookies from the SEND-COOKIE section

Cookies are so special and complicated that the have their own section. See below under "Sending Cookies".

## 2.1 Setting Request Header fields

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#### Setting Request Header fields

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You may specify any request header field in the HEADER section by just naming them and their value. Note: There is a special syntax for sending cookies: Refere to section Cookies.

GET http://host.to.ping/path.html

The header section: add special request header fields here.

**HEADER** 

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add the Accept-Language fields with given value.

Accept-Language := de,fr,en

Quotes could be used around the value to include leading or trailing spaces, but request header fields normaly do not contain spaces at all.

#### 2.2 Basic Authorization

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#### Basic Authorization

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To use basic authorization you can provide the Authorization header yourself, or you can use the special fake Basic-Authorization header.

GET http://host.to.ping/path.html

**HEADER** 

This is a pure convenience feature. username and password are in cleartext and will be properly base64 encoded. No Basic-Authorization" header will be sent, instead a correct Authorization header will be sent: Authorization: Basic=<br/>
description base64 encoded user credentials>

Basic-Authorization := username:password

## 2.3 Sending Parameters and Files

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Sending Parameters and Files

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Arbitary parameters can be specified in the PARAM section. For GET requests they are appended to the given URL. POST requests are sent as multipart/form-data iff a file is uploaded and application/x-www-form-urlencoded if not. See below for forcing multipart posts.

POST http://my.blog/comment.html

PARAM

Parameter name and value are given like this.

date := 2010-03-04

As a parameter may have seveal values you need to quote values with spaces as a space is the delimiter for the different values.

name := "Grigori Perelman"

text := "A Proof of the Poincare Conjecture"

```
Sending multiple values of a parameter (e.g. checkbox)
```

177 status := genius nerd

If one of the multiple values contains a space: Surround this one with quotes

categorie := proof "hilbert problem" theorem

To send a file use the following syntax:

file := @file:relative/path/to/document.pdf

Currently there is a bug: You may not send filenames with special characters (e.g. spaces) Note: no space allowwed between '@file:' and the filename

## 2.4 Forcing multipart/form-data

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#### Forcing multipart/form-data

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To force the post to use "multipart/form-data" even if **no** file is uploaded: Use POST:mp as method.

POST:mp http://my.blog/comment.html

PARAM

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## 3 Testing the Response

There are several ways to test the response recieved:

- Header fields in the response are checked in the RESPONSE section
- Textual or binary search in the body in the BODY section
- Checking for tags in a html/xml body in the TAG section
- Checking cookies recieved in a Set-Cookie header in the SET-COOKIE section
- Validating (X)HTML and links (via Setting)

As cookies are complicated the have their own section (see below in CHecking recieved Cookies). Validation is triggered by a special setting (see below).

## 3.1 Checking Response Header Fields

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#### Checking Response Header Fields

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Recieved header fields can be accessed by their name, e.g. Content-Type. There are two special fields which can be checked allways, even if the server didn't include them in the response header: Status-Code and Final-Url. Status-Code is the numerical status code and Final-Url is the URL reached after doing all the redirects requested by the server.

There are several ways to test the recieved value.

GET http://host.to.ping/path.html

RESPONSE

Operator == is for real equality

238 Status-Code == 200

Operator = tests strings for "contains"

241 Content-Type ~= text/html

Operator /= tests for a regular expression matching the field value and is considered for expert use.

245 Strange-Field /= (cat?|^dog?).+\$

Operator \_= tests for the field value starting with the given prefix

248 Other-Header \_= StartPrefix

Operator = tests for the field value ending with the given suffix

Something =\_ EndSuffix

For field which are numeric you may use <, <=, ==, >= or > with the usual meaning. If the field falue is not a numeric value the outcome is undefined.

256 Content-Length > 500

For fields whose value is a RFC1123 date you may use also use <, <=, > and >=. (Only RFC1123 dates work, but others should not be used anyway...)

Expires >= Fri, 20 May 2011 12:59:19 GMT

To negate a condition: Prefix the whole condition with a '!' character. Note: There is no != operator. Use !field == val instead

!App-Field ~= Illegal

To disalow the mere existence of a header field:

270 !Illegal-Header

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Generally there is no need to quote field names or values to test against: field names do not contain whitespace or special characters and values are just the rest after the operator with leading and trailing whitespace trimmed. If you do need these leading or trailing whitespaces: Enclose the value with "marks:

Field-Name == " spaces at begin and end are important for the test "

## 3.2 Testing the Response Body

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Testing the Response Body

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There are three ways to test the content of the recieved body: Simple tests are specified in the BODY section, HTML tags can be checked in the TAG section: See checking HTML Tags below

GET http://host.to.ping/path.html

BODY

Txt is the whole text of the body

Txt == Whole text of body

Attention: Only UTF-8 encoded bodys work well.

Bin is the whole text of the body as hexadecimal string

Bin == 0daf23bcad873f94

Note: Syntax may change in the future

The same operators (without the numerical ones) like in the response section can be used with with Txt and  $Bin: \tilde{\ }=, \ \_=, \ =\_$  and /= Test if boby contains "Hello World!"

```
Txt ~= Hello World
```

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Use something like this to check if a binary file starts with the appropriate magic key (png magic key below)

```
Bin _= 89504e470d0a1a0a
```

You can limit the range where the test applies by specifying start and end positions in the body: For Txt the positions are line numbers (starting from 0), for Bin the positions are byte numbers (again strting at 0). Negativ positions count backward, ommitted positions mean start/end. (Like in python).

```
Line 4,5,6 or 7 contains text "Status: Fine"
```

```
Txt[3:7] ~= Status: Fine
```

Last line in body is "Success"

```
Txt[-1:] == "Success"
```

Somewhere between byte 300 and 800 there is coffe

Bin[300:800] ~= caffebabe

## 3.3 Checking HTML Tags

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#### Checking HTML Tags

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HTML/XML tag/element checkings are placed in section TAG Syntax for the tags are like checktag. See documentation in tag.go. The syntax is a bit like

```
['!'] [ numOp number ] { simpleTag | tagStructure }
tagSpec
             { '<', '<=', '==', '>=', '>' }
numOp
             "any number \geq 0, e.g. 4 or 17"
number
          :=
simpleTag := tagName [class...] [attribute...] [ { '==' | '=D='} content]
             "the lower case tag name e.g. h2, div, iframe, ..."
tagName
          := [ '!' ] 'class='content
class
attribute := [ '!' ] attrName'='content
             "the lowercase attribute name, e.g. href, title, ..."
attrName :=
          := { '/' regexp '/' | pattern }
content
             "a valid regular expression"
regexp
          := "a text pattern with * and ? as the usual wildcards"
pattern
tagStruct := '[' '\n' moreIndnt { simpleTag | tagStructure } '\n' ']'
             "more indentation by tabs/spc than previous/parent tagSpec."
moreIndnt :=
```

GET http://host.to.ping/path.html

TAG

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Check if any h2 tag with a class of 'home' and text content of 'Quality' is present. All other attributes are ignored.

```
h2 class=home == Quality
```

Fail if a h5 tag with content 'WRONG' is present

```
! h5 == WRONG
352
              Whitespaces in text content is normalized: tabs and newlines are replaced by spaces, multiple
              spaces are collapsed to one and leading/trailing spaces are trimmed. I.e. the text content of
                 Hello
                               John Doe!
                  Greetings!
                is considered to be | Hello John Doe! Greetings! | and would be matched by
                p == Hello John Doe! Greetings!
              but not by
                p == Hello
                                John Doe! Greetings!
              Count occurrences of this div tag with CSS class teaser: Must be exactly 3
              =3 div class=teaser
368
              span tags may not be present 2 times (0, 1, 3, .. or 17) is okay
              !=2 span == xyz
371
              Fail if there are more than 4 a-tags linking to /somewhere.html.
374
              <5 a href=/somewhere.html</pre>
              The rest of the numerical operators are \langle =, > =  and >  and work like expected. Negations
              are discuraged (but allowed): !<=, !>=, !< and !>
              Tag structures (nested tags) are introduced by '[' and ended by ']' Each on a own line.
              382
                  div class=A
383
                       div class=B
384
                            ul
385
              ]
386
              Negation '!' and counting operators may be placed before the [. Test if this div with span
              element occurs at least 5 times.
              >4 [
390
                       div class=X
391
                            span == Test
392
                 ]
393
              Note: The following structure would match any teaser (the div) which contains as direct
              childs a h3- and a p-tag, regardless if there are other tags present: So
                <div class="teaser>
                  <h1>Super</h1>
                  <h3>Freibier</h3>
                  <span>Heute!</span>
                  Die ganze Woche Freibier fr alle
              Would match the following structure.
              Γ
405
                  div class=teaser
406
                       h3 == Freibier
407
                          == Die ganze Woche*
408
```

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Checking for "deep" content: Consider the following html

<h2> Hello<span>nice</span>World</h2>

The text content of the h2 is considered to be "Hello World" (note the trimming of spaces and the addition of a space between the two text nodes). To match the whole text content including nested tags use the "=D=" deep operator.

h2 =D= Hello nice World

## 3.4 Validating HTML and Links

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423 Validating HTML and Links

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If the response is a HTML or XHTML page you may validate the html and/or the links in the html. (X)HTML validation is done by connecting to the W3C Validator. If link checking is enableded, then all references in the html (link, a, and img tags) are requested and checked for a response code of 200 (maybe after redirecting).

GET http://www.domain.org/some/page.html

SETTING

Possible values are links, html and links+html.

Validate := links+html

## 4 Cookies

Cookies can be sent along with the request and recieved cookies (Set-Cookie) can be checked. Both have their own section.

#### 4.1 Sending Cookies

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Sending Cookies

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A cookie is identified by the browser based on the trippel (name, domain, path). These three parts are given here separated by colons. Name is allways first, and you may omit the domain and/or the path: The path defaults to "/" and the domain to the domain of the request URL if this testcase.

GET http://www.some.url/home/user/xyz

SEND-COOKIE

Send cookie mySpecialCookie with value someValue along with the request. The domain set to www.some.url and path is set to /. This is important only if the original request results in a rederict to a different host or different path (where this cookie wouldn't be sent).

mySpecialCookie := someValue

Full version of how to specify a cookie:

ownCookie:www.some.url:/home:secure := theValue

This will send ownCookie (with value the Value) only to host www.some.url (and all subdomains like abc.www.some.url) and only to request with a path starting with /home and only to secure https request. Note: This cookie would not be sent on the initial request given in the GET as this request isn't secure (it's http). But it would be sent e.g. to https://abc.some.url/home/login if the initial request redirects to this URL.

You may omit ":secure" if sending to http is okay and you may omit domain and/or path as described above.

Wildcard domains work (as in the browsers)

```
ownCookie:.domain.org := theValue
```

Please note:

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- You cannot declare a cookie secure without a domain and a path.
- You cannot set expiration (just dont send it!).
- You cannot declare HttpOnly cookies (it's implicit, we) handle only http.

## 4.2 Checking recieved cookies

```
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```

```
Checking recieved cookies
```

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The complicated stuff: Test wether server requests to set or delete a cookie.

GET http://www.domain.org/some/path/might/redirect

SET-COOKIE

You may use the common operators ==,  $\tilde{}=$ , ==, ==, ==, == to check the value:

```
name:domain.org:/path == value
```

As described above omiting domain and/or path is possible with the usefull defaults.

```
507 name == value
508 name:domain.org == value
509 name:/path == value
```

Cookies sent/set by the server can contain additional flags. You may check for them as follows:

```
name:domain.org:/path:Secure == true
name:domain.org:/path:HttpOnly == false
name:domain.org:/path:MaxAge == 0
name:domain.org:/path:Expires ~= Nov 2013
name:domain.org:/path:Expires > Mon, 02 Jan 2006 15:04:05 MST
```

You may neither omit domain nor path in this syntax.

 $You\ may\ test\ if\ the\ server\ requested\ to\ delete\ the\ cookie\ with\ the\ following\ syntax:$ 

```
name:domain.org:/path:Delete == true
```

It checks if the servers request would delete the cookie reliable in common browsers. Such cookies would be deleted in the Global too if Keep-Cookies is true

SETTING

Recieved cookies can be stored in the SEND-COOKIE section of the Global test. (Usefull for login/session cookies).

Keep-Cookies := 1

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## 5 Variables and repeating tests

Tests may contain "variables" which get substituted before execution. Tests may be repeated and there are two types of variables which take different values on each repetition.

There are two different ways to "repeat" a test: Setting "Repeat" or "Tries" to a number greater 0.

- "Repeating" a test n times means executing the the test n times and reporting a success only if all n individual tests succeed. This is usefull for iterating over sequence or random variables. See above for examples.
- "Trying" means trying at most n times. Pass imediately if one run succeeds and fail if all n rounds fail. This is usefull to wait for some background job to complete and check this regularely.

## 5.1 Repeate a test multiple times

-----

```
Repeate a test multiple times
```

-----

Repeating a test n time will make n request and check all test conditions n times: It will report n times as much pass/fail as if run just once.

```
GET http://www.domain.org/show_random_fortune_cookie
```

RESPONSE

Response-Status == 200

SETTING

Repeat this test 10 times: Make 10 requests and check 10 times the response code.

```
Repeat := 10
```

## 5.2 Wait for Background Job / Trying

-----

```
Wait for Background Job / Trying
```

-----

Trying a test works a bit like repeating a test. The difference: If all conditions pass on one repetition the test and all it's conditions are marked as pass and no more repetitions are performed. Note: Combining repetition and trying is possible, but the result is currently undefined (aka buggy): The test status is solely determined by the last repetition.

```
GET http://some.host/job/123/detail.html
```

BODY

Txt ~= Job 123 finished.

SETTING

Wait two seconds after each test

Sleep := 2000

```
Try at most 60 times: Fail if not finished after approx 2 minutes.
```

590 Tries := 60

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#### 5.3 Variable Subtitutions

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#### Variable Subtitutions

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There are three types of variable substitutions, all can be used like shell variables: const variables (just sounds strange), sequence variables and random variables. A variable can be asigned a value and used as part of the URL, part of the header, response, body, tag or parameter values. The usage is allways the same for all three types: Occurences of  $\{<$ varname> $\}$  are replaced by the value of the variable <varname>. But there are three ways to set a value for a variable in the three sections:

- CONST variables just take a single value, there use is obvious.
- SEQ (sequence) variables and
- RAND (random) values,

The only reasonable use for sequence and random variables is in a repeated test: SEQ and RAND values take values of a given list of possible values. SEQ cycles through the list in the given order, whereas RAND picks one value by random for each round of the test. Notes:

- Variable names consist of characters only (no numbers, no underscore \_).
- The following variable names are reserved for future use: "GLOBALID", "RANDOM", all variables starting with "ENV" and "NOW" (see below)
- Pay attention if variables are substituted in tag content as this might generate a regexp: If x takes value "xyz/" and the tag spec is e.g. "p == /abc\* x it will result in "/abc\*xyz/ which is considered a regexp.

Usage of a variable: \${BaseUrl} is replace by const value set bolow. resulting in URL beeing http://my.blog/entries/show

```
GET ${BaseUrl}/show
```

#### PARAM

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```
month := ${Month}
year := ${Year}
user := user-${Name}
```

TAG

Variable substitution is done in the content part of tags only: All other elements do not allow variables.

```
h2 == Hello ${Name}!
```

CONST

Set value of BaseUrl to http://my.blog/entries.

```
BaseUrl := http://my.blog/entries
```

SEQ

Month will be 1 on first run of test, 2 on second, and so on. Will restart beeing 1 on 13th run of test.

```
Month := 1 2 3 4 5 6 7 8 9 10 11 12
```

RAND

Year is one of the given four selected randomly on each test run.

Year := 2004 2005 2006 2007

Values with spaces like 'Emil Tom' must be enclosed in quotes as usual. Inside double quotes you may use standard go string escapings to create special characters e.g. a FEMAL SIGN.

Name := Anna "Emil Tom" "Gender: \u2640" "Berta \"The Fat\" Bomb"

Name would be one of: Anna Emil Tom Gender: Berta "The Fat" Bomb

#### SETTING

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Repeat the test 7 times.

Repeat := 7

## 5.4 Special Variables

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#### 664 Special Variables

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The following variables are provided by the system and cannot be redefined:

• "NOW" (currently the only one).

GET http://some.url

RESPONSE

 $NOW\ is\ the\ current\ time\ formated\ as\ RFC1123\ (that\ is\ "Mon,\ 02\ Jan\ 2006\ 15:04:05\ MST")$ 

Date == \${NOW}

Now can be increased/decreased by adding/subtracting timespans. Formating remains RFC1123

Expires > \${NOW + 3days}

If you need a different time format: add your own fmt definition in Go's time format after a '|' charcter. Time will be in UTC!

Last-Modified  $\Rightarrow$  \$\{NOW - 5 hours + 10 minutes | Mon Jan \_2 15:04:05 2006\}

Possible modifiers are "second", "minute", "hour", "day", "week", "month" and "year" (all lower case, plural accepted). Output is in UTC time format (to prevent bug in Go)

## 6 Special Tests

## 6.1 Pre- and Post-Tasks

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#### Pre- and Post-Tasks

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You may execute (and test their outcome) arbitary commands before and after running the test. These commands are executed really before and after which means only once befor repeating or trying tests. The commands are search in PATH but you may give full paths. Use double quotes "to group words into one argument. If the command cannot be run, it aborts abnormaly or returns anything but 0 it is considered an error. The test itself is not performed after a failed BEFORE condition.

GET http://some.url

#### BEFORE

Everything in the BEFORE section will be executed before doing the actual GET request. All commands are are executed in the current working directory. Return value checking works like described in the AFTER section below.

bash -c "mysql -batch -u admin -p admin < setupdb.sql"

#### **AFTER**

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Everything in the AFTER section will be executed after doing the actual request and running the tests on the response. An AFTER condition (same for BEFORE conditions) is considered a failure if the return value is !=0.

/home/tester/bin/python check-state.py
bash -c "if [ -f threaddump.bin ]; then exit 1; else exit 0; fi"

## 6.2 Logfile Checking

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### Logfile Checking

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Checking additions to one ore more logfiles can be checked in the section LOG:

Please note: If log rotation happens during the test, then the test is not accurate as it might miss a log record. Writing log files is typically done asyncronousely so we might miss entries. Please add some (long enough) sleep time to your tests if the internal grace period of 250 ms isn't long enough (e.g. for emails).

The format of a log file condition is:

- [!] <path/to/logfile> <op> <pattern>
- with <op> one of the following operators:
  - ~= contains
  - /= regexp match
  - \_= line starts with
  - =\_ line ends with
  - > logfile did grow more than given number of bytes (unimplemented)
  - < logfile did not grow more (unimplemented)

The rest of the operators known from the RESPONSE section are undefined. Please note: No spaces in the path to the logfile. Before running any tests the length of the logfile is recorded. After running all the tests (that is after all repetitions and tries) the log file is openend and the new lines are matched against the conditions.

GET http://some.url

LOG

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Make sure no ERROR is is reported in the log file

! server/log/error.log ~= ERROR

Make sure the following warning is logged:

../server/log/access.log /= .\*WARNING.\*Unauthorized access from.\*

Make sure that a email is recieved

/var/mail/testuser \_= Subject: Weekly Traffic Summary

Make sure this request does not fill the disk if repeated: Logfile must not grow less than 250 bytes. (Currently unimplemented)

server/log/error.log < 250

#### 7 Miscelaneous

## 7.1 Settings

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778 Settings

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Various setting can be applied to each and every test in the SETTING section. Currently the following are implemented:

- Repeat
- Tries
- Sleep
- Max-Time
- Keep-Cookies
- Dump
- Abort
- Validate

GET http://host.to.ping/path.html

SETTING

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Number of repetitions of the test. Set to 0 to "disable" this test.

Repeat := 12

Number of tries this test is executed at most. The test passes if one try succeeds (the rest of the possible tries are skipped) and fails if all tries fail.

799 Tries := 5

Setting both Tries and Repeat to values > 1 is (currently) undefined.

Time in ms to sleep after test

803 Sleep := 250

Fail if answer is not recievd in less than 300 ms.

806 Max-Time := 300

Keep (store in Global) cookies set by the server answer. See below. Use 0 to turn storage off.

810 Keep-Cookies := 1

Dump (see below in Debugging)

813 Dump := 0

Abort test suite and fail immediately if this tests fails. Usefull to skip test which cannot be tested because some setup task failed.

818 Abort := 1

Check the recieved html. See below in Validating) Possible values are links, html and links+html.

Validate := links+html

#### 7.2 Debuging

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827 Debuging

822

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Setting Dump to 1 will dump the whole request/response talk to a .dump-file. The filename is constructed from the test name. Setting Dump to 3 will save the response body to a file.

GET http://some.url

## SETTING

840

Turn dumping on with 1 or 2. Will dump to file "Debuging.dump" 1 will create a new file wheras 2 will append to an existing one. 1 and 2 will dump the whole wiretalk of request and response while 3 will just dump the recieved response body (and create a new file each time)

Dump := 1