



Looking Glass User Guide

Nov 2019

—

LeTron Entertainment Tech

Outline

1. Looking Glass Single-Query
 - 1.1. [Overview](#)
 - 1.2. [Curl](#)
 - 1.3. [Tcping](#)
 - 1.4. [Ping](#)
 - 1.5. [Nslookup](#)
 - 1.6. [Dig](#)
 - 1.7. [MTR](#)
 - 1.8. [HAR](#)
 - 1.9. [WS](#)

2. Looking Glass Multi-Query
 - 2.1. [Overview](#)
 - 2.2. [Curl](#)
 - 2.3. [WS](#)
 - 2.4. [Dig](#)
 - 2.5. [Ping](#)
 - 2.6. [Tcping](#)

3. Appendix
 - 3.1. [Overview](#)
 - 3.2. [Monitors list](#)

1. Looking Glass Single-Query

1.1. Overview

In Looking Glass Single-Query, we can only select one monitor to execute tests.

Steps:

- Login to <http://demo.letonlab.com:8089/>
- Click Utilities on left, then click looking glass(single)
- Select one monitor E.g. 上海纪蕴路网通
- Select one test command E.g. curl
- Enter required parameters
- Click run
- Enter optional parameters then click run
- Check total test time
- Check result

Result:

The screenshot displays the 'LETRON' web interface for 'looking glass(single)'. The interface includes a sidebar with 'Utilities' and 'looking glass(single)' selected. The main area shows the configuration for a test:

- Monitor (c):** 上海纪蕴路网通
- Command (d):** curl
- URL (e):** https://www.baidu.com
- Run Button (f):** run
- Optional Parameters (g):** --resolve www.baidu.com:443 103.235.46.39

Below the configuration, a table shows the test details:

監控點	指令	host
上海纪蕴路网通	curl	https://www.baidu.com

The test results are displayed below the table:

h 0m2.804s

i HTTP/1.1 200 OK
Accept-Ranges: bytes
 Cache-Control: private, no-cache, no-store, proxy-revalidate, no-transform
 Connection: keep-alive
 Content-Length: 277
 Content-Type: text/html
 Date: Mon, 25 Nov 2019 07:10:19 GMT
 Etag: "575e1f6f-115"
 Last-Modified: Mon, 13 Jun 2016 02:50:23 GMT
 Pragma: no-cache
 Server: bfe/1.0.8.18

Summary statistics:

```
real 0m2.804s
user 0m0.056s
sys 0m0.016s
```

1.2. Curl

Curl command transfer data to or from a network server.

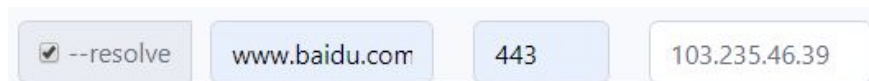
We can use curl to check URLs status and response.

Steps:

- a. Select one monitor
- b. Select command curl
- c. Check parameters
 - i. `-I` --only get header result
 - ii. `-ivk` --get complete result
- d. Enter one URL (http/https)
- e. Click run



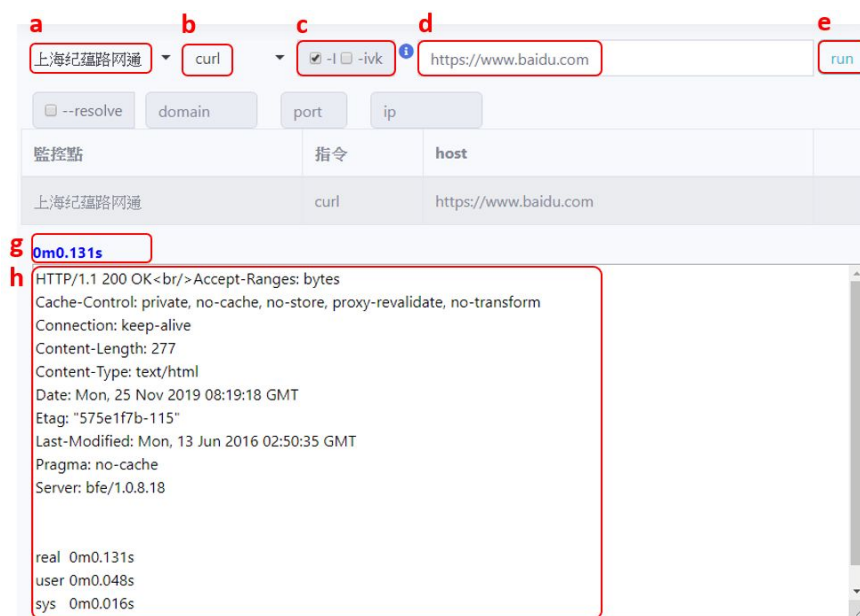
- f. (Optional) If you want to use your choice IP to resolve your domain, check `--resolve` then enter domain, port and ip



- g. Check total test time
- h. Check result

Results:

Parameters `-I` (only get header result)



Parameters -ivk (get complete result)

a **b** **c** **d** **e**

上海纪蕴路网通 curl ☒ -I ☒ -ivk ☐ https://www.baidu.com **run**

☐ --resolve domain port ip

監控點	指令	host
上海纪蕴路网通	curl	https://www.baidu.com

g 0m0.139s

h

```
* Rebuilt URL to: https://www.baidu.com/<br/>* Trying 112.80.248.75...
* Connected to www.baidu.com (112.80.248.75) port 443 (#0)
* found 148 certificates in /etc/ssl/certs/ca-certificates.crt
* found 592 certificates in /etc/ssl/certs
* ALPN, offering http/1.1
* SSL connection using TLS1.2 / ECDHE_RSA_AES_128_GCM_SHA256
*  server certificate verification SKIPPED
*  server certificate status verification SKIPPED
*  common name: baidu.com (matched)
*  server certificate expiration date OK
*  server certificate activation date OK
*  certificate public key: RSA
*  certificate version: #3
*  subject: C=CN,ST=beijing,L=beijing,OU=service operation department,O=Beijing Baidu Netcom Science
Technology Co.,Ltd,CN=baidu.com
```

Check --resolve with your choice resolve ip

a **b** **c** **d** **e**

上海纪蕴路网通 curl ☒ -I ☐ -ivk ☐ https://www.baidu.com **run**

f ☒ --resolve www.baidu.com 443 103.235.46.39

監控點	指令	host
上海纪蕴路网通	curl	https://www.baidu.com

g 0m2.804s

h

```
HTTP/1.1 200 OK<br/>Accept-Ranges: bytes
Cache-Control: private, no-cache, no-store, proxy-revalidate, no-transform
Connection: keep-alive
Content-Length: 277
Content-Type: text/html
Date: Mon, 25 Nov 2019 07:10:19 GMT
Etag: "575e1f6f-115"
Last-Modified: Mon, 13 Jun 2016 02:50:23 GMT
Pragma: no-cache
Server: bfe/1.0.8.18
```

real 0m2.804s
user 0m0.056s
sys 0m0.016s

1.3. Tcping

Tcping is utilized to test the reachability of a host or an IP.

It can also monitor the state of a port.

Steps:

- a. Select monitor
- b. Select command tcping
- c. Enter domain or IP
- d. Enter port
- e. Click run
- f. Check result

Result:

The screenshot shows the Tcping tool interface. At the top, there are five red labels (a-e) pointing to specific UI elements: 'a' points to the monitor dropdown, 'b' to the command dropdown, 'c' to the domain input, 'd' to the port input, and 'e' to the 'run' button. Below these is a table with columns '監控點' (Monitor Point), '指令' (Command), and 'host'. The first row of the table has 'f' pointing to the '監控點' cell, which contains '上海纪蕴路网通'. The '指令' cell contains 'tcping' and the 'host' cell contains 'www.baidu.com'. Below the table, there is a red-bordered box containing the test results.

監控點	指令	host
上海纪蕴路网通	tcping	www.baidu.com

Reply from: 112.80.248.76
seq 0: tcp response from 112.80.248.76 [open] 10.891 ms
seq 1: tcp response from 112.80.248.76 [open] 7.516 ms
seq 2: tcp response from 112.80.248.75 [open] 10.969 ms
seq 3: tcp response from 112.80.248.76 [open] 8.201 ms
seq 4: tcp response from 112.80.248.76 [open] 8.021 ms

1.4. Ping

Ping is utilized to test the reachability of a host or an IP.

It also measures the RTT (round-trip time) for messages sent from the originating host to a destination computer that are echoed back to the source.

Looking glass sends 5 packets for testing.

Steps:

- a. Select monitor
- b. Select command ping
- c. Enter domain or IP
- d. Click run
- e. Check result

Result:

The screenshot shows a web-based interface for a network monitoring tool. At the top, there are four red boxes labeled a, b, c, and d. Box a contains a dropdown menu with '上海纪蕴路网通' selected. Box b contains a dropdown menu with 'ping' selected. Box c contains a text input field with 'www.baidu.com' and an information icon. Box d contains a 'run' button. Below these is a table with four columns: '監控點' (Monitoring Point), '指令' (Command), 'host', and an empty column. The first row of the table has the values '上海纪蕴路网通', 'ping', and 'www.baidu.com'. Below the table is a red box labeled e containing the ping test results for 'www.a.shifen.com' (112.80.248.76). The results show 5 packets transmitted, 5 received, 0% packet loss, and a total time of 4007ms. The RTT statistics are: min/avg/max/mdev = 7.757/7.780/7.819/0.114 ms.

監控點	指令	host	
上海纪蕴路网通	ping	www.baidu.com	

PING www.a.shifen.com (112.80.248.76) 56(84) bytes of data.
 64 bytes from 112.80.248.76: icmp_seq=1 ttl=54 time=7.76 ms
 64 bytes from 112.80.248.76: icmp_seq=2 ttl=54 time=7.81 ms
 64 bytes from 112.80.248.76: icmp_seq=3 ttl=54 time=7.79 ms
 64 bytes from 112.80.248.76: icmp_seq=4 ttl=54 time=7.77 ms
 64 bytes from 112.80.248.76: icmp_seq=5 ttl=54 time=7.75 ms

--- www.a.shifen.com ping statistics ---
 5 packets transmitted, 5 received, 0% packet loss, time 4007ms
 rtt min/avg/max/mdev = 7.757/7.780/7.819/0.114 ms

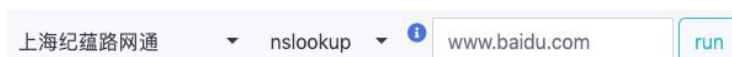
1.5. Nslookup

You can use nslookup to determine the IP address associated with a domain name.

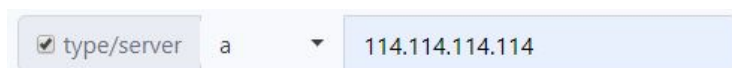
It can also be used for testing and troubleshooting DNS servers.

Steps:

- a. Select monitor
- b. Select command nslookup
- c. Enter domain
- d. Click run



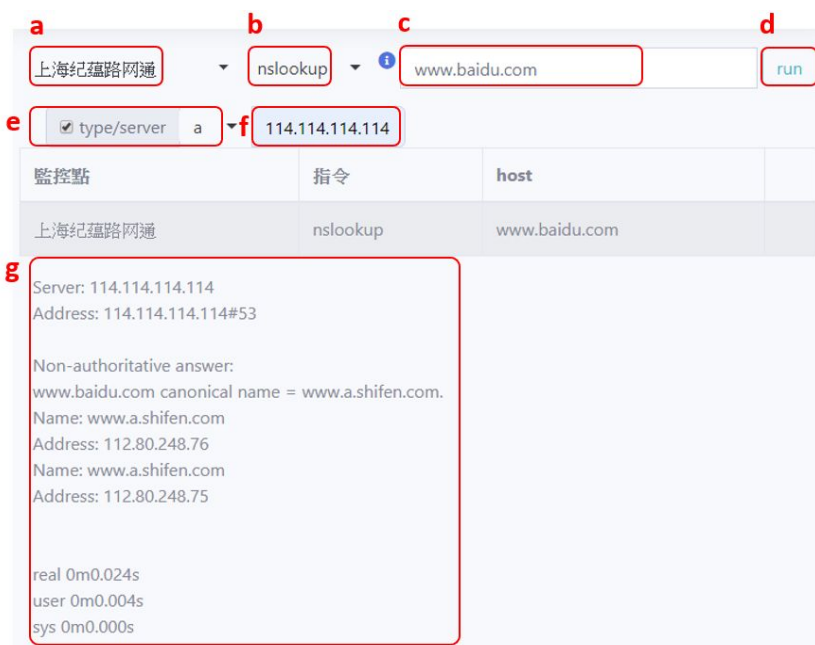
- e. (Optional) Check type/server and select parameters
 - i. a --type=a record
 - ii. any --type=any
 - iii. ns --type=nameserver
- f. (Optional) Enter dns server to assign nameserver



- g. Check result

Results:

type=a and assign nameserver (optional)



監控點	指令	host
上海纪蕴路网通	nslookup	www.baidu.com

```

Server: 114.114.114.114
Address: 114.114.114.114#53

Non-authoritative answer:
www.baidu.com canonical name = www.a.shifen.com.
Name: www.a.shifen.com
Address: 112.80.248.76
Name: www.a.shifen.com
Address: 112.80.248.75

real 0m0.024s
user 0m0.004s
sys 0m0.000s
  
```


type=any

a 上海纪蕴路网通 **b** nslookup **c** www.baidu.com **d** run

e ☒ type/server any

監控點	指令	host
上海纪蕴路网通	nslookup	www.baidu.com

g

```

Server: 210.22.70.3
Address: 210.22.70.3#53

Non-authoritative answer:
www.baidu.com canonical name = www.a.shifen.com.

Authoritative answers can be found from:

real 0m0.010s
user 0m0.000s
sys 0m0.008s
  
```

type=ns and assign nameserver (optional)

a 上海纪蕴路网通 **b** nslookup **c** www.baidu.com **d** run

e ☒ type/server ns **f** 114.114.114.114

監控點	指令	host
上海纪蕴路网通	nslookup	www.baidu.com

g

```

Server: 114.114.114.114
Address: 114.114.114.114#53

Non-authoritative answer:
www.baidu.com canonical name = www.a.shifen.com.

Authoritative answers can be found from:
a.shifen.com
origin = ns1.a.shifen.com
mail addr = baidu_dns_master.baidu.com
serial = 1911250006
refresh = 5
retry = 5
expire = 2592000
minimum = 3600

real 0m0.026s
user 0m0.008s
sys 0m0.000s
  
```

1.6. Dig

The command dig is a tool for querying DNS nameservers for information about host addresses, nameservers, and related information.

Steps:

- a. Select monitor
- b. Select command dig
- c. Enter domain



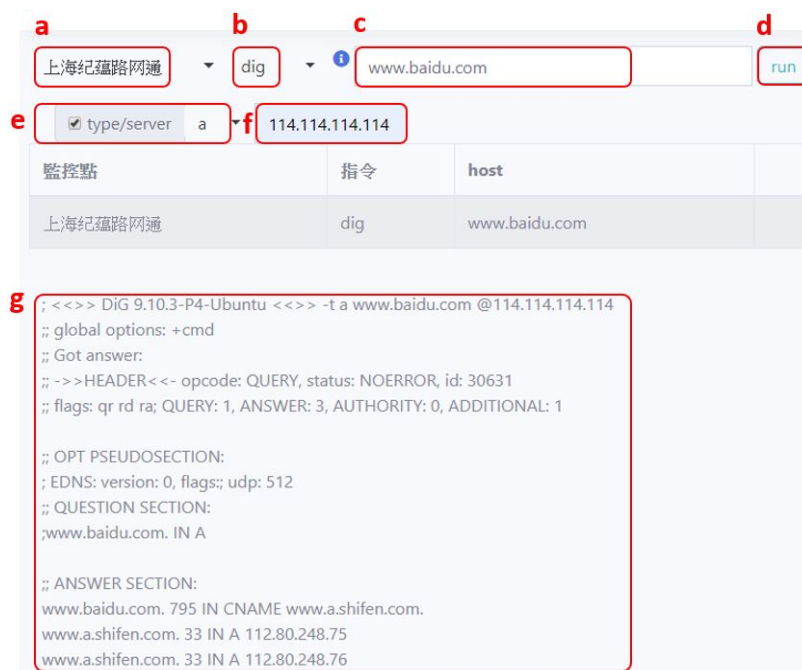
- d. Click run
- e. (Optional) Check type/server and select parameters
 - i. a --type=a record
 - ii. any --type=any
 - iii. ns --type=nameserver
- f. (Optional) Enter dns server to assign nameserver



- g. Check result

Results:

type=a and assign nameserver (optional)



監控點	指令	host
上海纪蕴路网通	dig	www.baidu.com

```

g ; <<>> DiG 9.10.3-P4-Ubuntu <<>> -t a www.baidu.com @114.114.114.114
;; global options: +cmd
;; Got answer:
;; ->>HEADER<- opcode: QUERY, status: NOERROR, id: 30631
;; flags: qr rd ra; QUERY: 1, ANSWER: 3, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 512
;; QUESTION SECTION:
;www.baidu.com. IN A

;; ANSWER SECTION:
www.baidu.com. 795 IN CNAME www.a.shifen.com.
www.a.shifen.com. 33 IN A 112.80.248.75
www.a.shifen.com. 33 IN A 112.80.248.76
  
```

type=any

a 上海纪蕴路网通 **b** dig **c** www.baidu.com **d** run

e ☒ type/server any dns server

監控點	指令	host
上海纪蕴路网通	dig	www.baidu.com

g

```

; <<>> DiG 9.10.3-P4-Ubuntu <<>> -t any www.baidu.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 24418
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 4096
;; QUESTION SECTION:
;www.baidu.com. IN ANY

;; ANSWER SECTION:
www.baidu.com. 125 IN CNAME www.a.shifen.com.
  
```

type=ns and assign nameserver (optional)

a 上海纪蕴路网通 **b** dig **c** www.baidu.com **d** run

e ☒ type/server ns **f** 114.114.114.114

監控點	指令	host
上海纪蕴路网通	dig	www.baidu.com

g

```

; <<>> DiG 9.10.3-P4-Ubuntu <<>> -t ns www.baidu.com @114.114.114.114
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 27492
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 512
;; QUESTION SECTION:
;www.baidu.com. IN NS

;; ANSWER SECTION:
www.baidu.com. 34 IN CNAME www.a.shifen.com.
  
```

1.7. MTR

MTR shows a list of routers traversed, and the average RTT and packet loss to each router, it helps users to identify network problems.

Looking glass sends 1 packet for testing.

Steps:

- Select monitor
- Select command mtr
- Enter domain or IP



- Click run
- Check result

Result:

a **b** **c** **d**

監控點	指令	host
上海纪蕴路网通	mtr	www.baidu.com

e

	Hostname	Loss	Received	Sent	Min	Avg	Max
1	172.17.0.1	0.0	1	1	0	0	0
1	localhost	0.0	1	1	0	0	0
2	112.65.92.1	0.0	1	1	1	1	1
4	112.65.207.217	0.0	1	1	1	1	1
7	139.226.227.45	0.0	1	1	1	1	1
8	219.158.104.98	0.0	1	1	4	4	4
9	122.96.66.102	0.0	1	1	7	7	7
10	112.86.192.146	0.0	1	1	8	8	8
12	112.80.248.76	0.0	1	1	7	7	7

1.8. HAR

HAR provides tracking information between a web browser and a website in json format. It includes breakdown of timings such as

- Fetch DNS information
- Request each object
- Connect to server
- Transfer each object from the server to website

Looking glass visualizes information based on .har file gathered from monitors. Also, users are able to download .har file from looking glass after each testing.

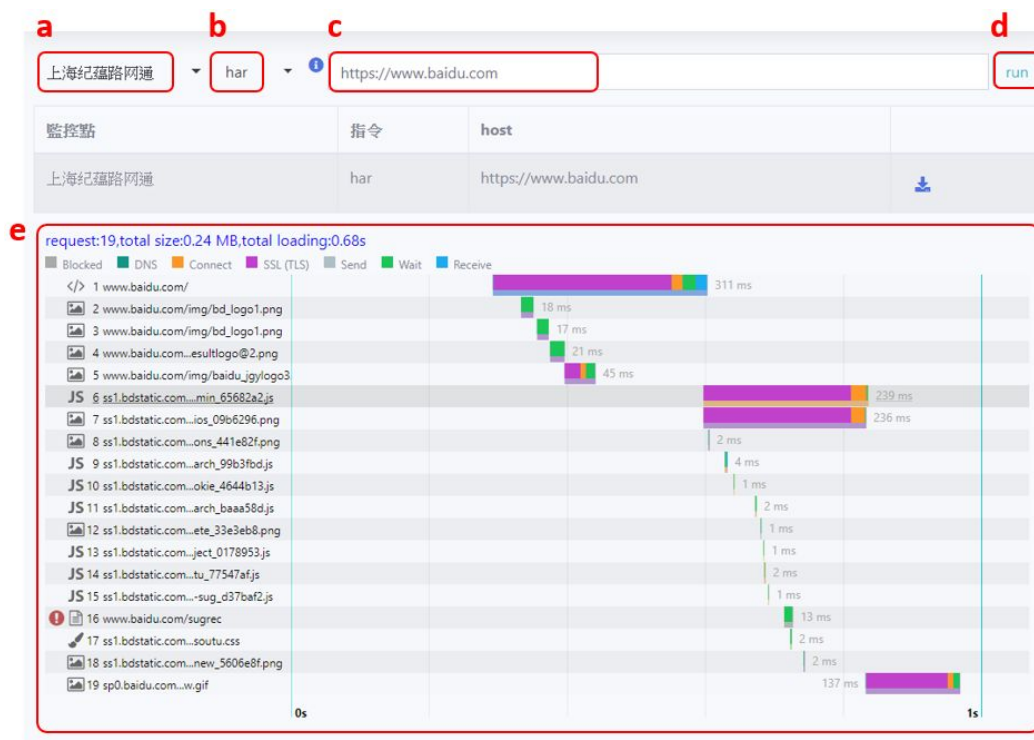
Steps:

- Select monitor
- Select command har
- Enter URL (http/https)



- Click run
- Check result

Results:



(Optional) Expand result for detail

The screenshot shows a network monitoring interface with a table of requests. The second request is expanded, showing details for the URL `https://www.baidu.com/img/bd_logo1.png`. The details include:

- Method: GET
- HTTP Version: HTTP/1.1
- Headers Size: 568 bytes
- User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) HeadlessChrome/76.0.3809.132 Safari/537.36
- Host: www.baidu.com
- Connection: keep-alive
- Accept: image/webp,image/apng,image/*,*/*;q=0.8
- Accept-Encoding: gzip, deflate, br

The interface also shows a timeline of requests with their respective durations: 1. 311 ms, 2. 18 ms, 3. 17 ms, 4. 21 ms.

(Optional) Download .har file

The screenshot shows a network monitoring interface with a table of requests. A red box highlights a download button labeled "Click here to download" with a download icon. The table lists 19 requests, including various images and JavaScript files from Baidu. The total request size is 0.24 MB and the total loading time is 0.68s.

Request ID	URL	Duration
1	www.baidu.com/	311 ms
2	www.baidu.com/img/bd_logo1.png	18 ms
3	www.baidu.com/img/bd_logo1.png	17 ms
4	www.baidu.com/esultlogo@2.png	21 ms
5	www.baidu.com/img/baidu_jgy/logo3	45 ms
6	ss1.bdstatic.com...min_65682a2.js	239 ms
7	ss1.bdstatic.com...ios_09b6296.png	236 ms
8	ss1.bdstatic.com...ons_441e82f.png	2 ms
9	ss1.bdstatic.com...arch_99b3fbd.js	4 ms
10	ss1.bdstatic.com...okie_4644b13.js	1 ms
11	ss1.bdstatic.com...arch_baaa58d.js	2 ms
12	ss1.bdstatic.com...ete_33e3eb8.png	1 ms
13	ss1.bdstatic.com...ject_0178953.js	1 ms
14	ss1.bdstatic.com...tu_77547af.js	2 ms
15	ss1.bdstatic.com...sug_d37baf2.js	1 ms
16	www.baidu.com/sugrec	13 ms
17	ss1.bdstatic.com...soutu.css	2 ms
18	ss1.bdstatic.com...new_5606e8f.png	2 ms
19	sp0.baidu.com...w.gif	137 ms

1.9. WS

WebSockets provide a persistent connection between a client and server that both parties can use to start sending data at any time.

We can use ws to check sites status and response with websocket protocol.

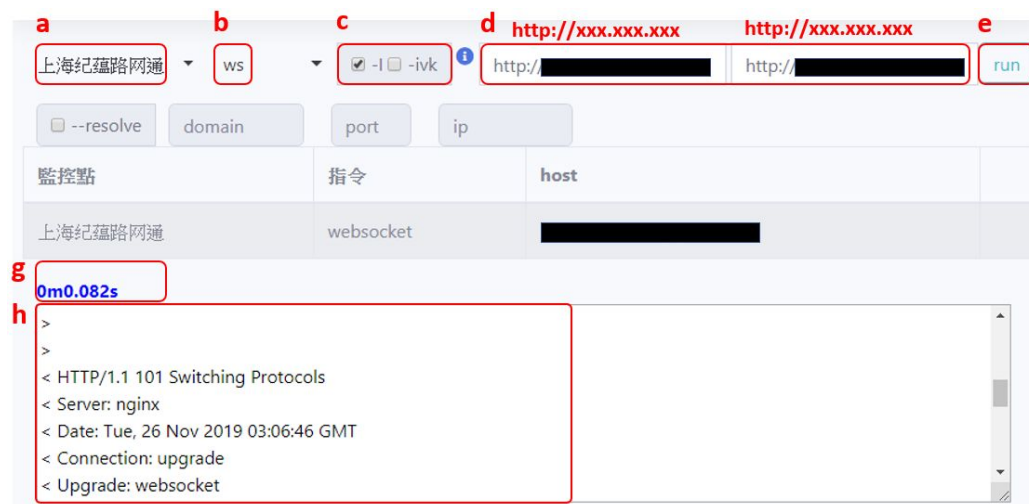
Steps:

- a. Select one monitor
- b. Select command ws
- c. Check parameters
 - i. `-l` --only get header result
 - ii. `-ivk` --get complete result
- d. Enter URL(http/https) and origin URL(http/https)



- e. Click run
- f. (Optional) Check --resolve to use your choice resolve ip, enter domain, port and ip
- g. Check total test time
- h. Check results
- i. Result

Parameters -l (only get header result)



Parameters -ivk (get complete result)

a 上海纪蕴路网通 **b** ws **c** ☐ -I ☒ -ivk **d** http://xxx.xxx.xxx http://xxx.xxx.xxx **e** run

☐ --resolve domain port ip

監控點	指令	host
上海纪蕴路网通	websocket	██████████

g 0m0.076s

h

```
> Cache-Control: no-cache
> Connection: Upgrade
> Sec-WebSocket-Version: 13
>
< HTTP/1.1 101 Switching Protocols
< Server: nginx
< Date: Tue, 26 Nov 2019 03:34:40 GMT
< Connection: upgrade
< Upgrade: websocket
```

Check --resolve (with your choice resolve ip)

a 上海纪蕴路网通 **b** ws **c** ☒ -I ☐ -ivk **d** http://xxx.xxx.xxx http://xxx.xxx.xxx **e** run

f ☒ --resolve ██████████ 80 ██████████

監控點	指令	host
上海纪蕴路网通	websocket	██████████

g 0m0.075s

h

```
>
< HTTP/1.1 101 Switching Protocols
< Server: nginx
< Date: Tue, 26 Nov 2019 03:27:17 GMT
< Connection: upgrade
< Upgrade: websocket
```




2. Looking Glass Multi-Query

2.1. Overview


In Looking Glass Multi-Query, we can select multiple monitors to execute tests.

You can also select monitors by region or select all.

Futures:

- Select multiple monitors
- Select monitors by region or select all
- Status code show different color if result is unexpected
- Total time more than 1 second is descending order
- Refresh button  : Select any monitor to test again
- Play button  : Select any monitor to test for 10 times and show result

Steps:

- a. Login to <http://demo.lettronlab.com:8089/>
- b. Click Utilities on left, then click looking glass(multi)
- c. Select multiple monitors
- d. Select one test command E.g. dig
- e. Enter required parameters
- f. Click run
- g. Check result
- h. Check total test time
- i. Click refresh button  to test again
- j. Click play button  to test for 10 times and check result

2.2. Curl

Curl command transfer data to or from a network server.

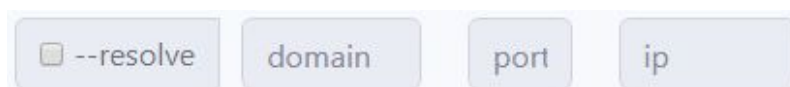
We can use curl to check URLs status and response.

Steps:

- a. Select monitors, can also select by region or select all
- b. Select command curl
- c. Check parameters
 - i. `-I` --only get header result
 - ii. `-ivk` --get complete result
- d. Enter one URL (http/https)
- e. Click run



- f. (Optional) If you want to use your choice resolve IP to resolve your domain, check `--resolve` then enter domain, port and ip



- g. Check result

Results:

Parameters `-I` (only get header result, expand it to check header)

a **b** **c** **d** **e**

g

region	node name	status	total time
+西南	重庆移动5  	200	0m0.247s
+华南	广东东莞网通2  	200	0m0.131s
+华东	上海纪蕴路网通  	200	0m0.128s
+华北	天津电信  	200	0m0.106s

Parameters -ivk (get complete result, expand it to check content)

a 已選擇4個監控點 **b** curl **c** ☐ -I ☒ -ivk **d** <https://www.baidu.com> **e** run

☐ --resolve domain port ip

g

region	node name	status	total time
+西南	重庆移动5  	200	0m0.299s
+华南	广东东莞网通2  	200	0m0.138s
+华东	上海纪蕴路网通  	200	0m0.120s
+华北	天津电信  	200	0m0.103s

Check --resolve (assign your choice resolve ip)








If status code is unexpected, it will show different color

Total time is descending order

a 已選擇10個監控點 **b** curl **c** ☒ -I ☐ -ivk **d** <https://www.baidu.com> **e** run

f ☒ --resolve www.baidu.com 443 103.235.46.39

g

region	node name	status	total time
+华南	广东广州电信2  	200	0m15.118s
+西南	四川成都电信9  	200	0m7.864s
+华南	广东东莞网通2  	200	0m2.579s
+华中	湖南郴州电信3  	200	0m2.421s

(Optional) Expand result for detail

已選擇10個監控點 curl -i -ivk https://www.baidu.com run

--resolve domain port ip

region	node name	status	total time
[-] 东北	吉林长春电信4	200	0m0.372s

HEADER


CONTENT

```


Accept-Ranges:bytes
Cache-Control:private, no-cache, no-store, proxy-revalidate, no-transform
Connection:Keep-Alive
Content-Length:2443
Content-Type:text/html
Date:Fri, 22 Nov 2019 09:43:53 GMT
Etag:"588603eb-98b"
Last-Modified:Mon, 23 Jan 2017 13:23:55 GMT
Pragma:no-cache
Server:bfe/1.0.8.18
Set-Cookie:BDORZ=27315; max-age=86400; domain=.baidu.com; path=/

```

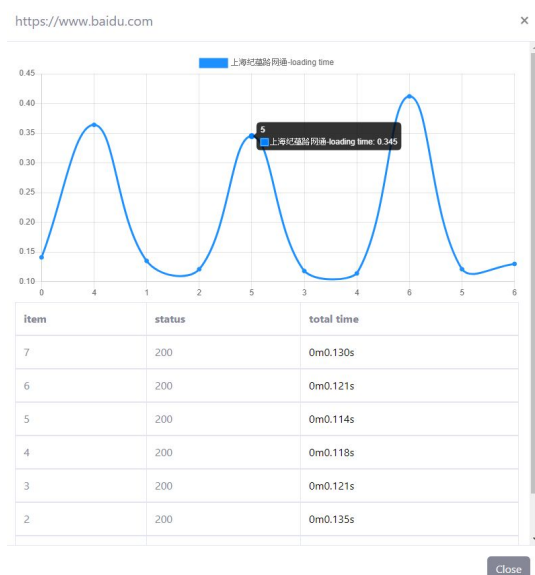
(Optional) Click “refresh” button to test again

region	node name	status	total time
[+] 华南	广东广州电信2 	408	5

(Optional) Click “play” button to test for 10 times

region	node name	status	total time
[+] 华南	广东广州电信2 	408	5

Check test result and graph



2.3. WS

WebSockets provide a persistent connection between a client and server that both parties can use to start sending data at any time.

We can use ws to check sites status and response with websocket protocol.

Steps:

- Select monitors, can also select by region or select all
- Select command ws
- Check parameters
 - l --only get header result
 - ivk --get complete result
- Enter URL and origin URL

- Click run
- (Optional) Check --resolve to use your choice resolve ip, enter domain, port and ip

- Check result

Results:

Parameters -l (only get header result, expand it to check header)

a **b** **c** **d** **e**

g

region	node name	status	total time
+西南	四川成都电信9	101	0m0.115s
+华北	天津电信	101	0m0.111s
+华南	广东广州电信2	101	0m0.096s
+华东	上海纪蕴路网通	101	0m0.080s

Parameters -ivk (get complete result, expand it to check content)

a 已選擇4個監控點! **b** ws **c** ☐ -l ☒ -ivk **d** http://xxx.xxx.xxx http://xxx.xxx.xxx **e** run

☐ --resolve domain port ip

region	node name	status	total time
+西南	四川成都电信9	101	0m0.374s
+华北	天津电信	101	0m0.096s
+华南	广东广州电信2	101	0m0.094s
+华东	上海纪蕴路网通	101	0m0.082s

Check --resolve (assign your choice resolve ip)

a 已選擇4個監控點! **b** ws **c** ☒ -l ☐ -ivk **d** http://xxx.xxx.xxx http://xxx.xxx.xxx **e** run

f ☒ --resolve [] 80 []

region	node name	status	total time
+西南	四川成都电信9	101	0m0.385s
+华北	天津移动4	101	0m0.120s
+华南	广东广州电信2	101	0m0.033s
+华东	上海纪蕴路网通	101	0m0.079s

(Optional) Expand result for detail

region	node name	status	total time
-华中	湖南郴州电信3	400	0m1.393s

ANSWER SECTION

CONTENT

```

Access-Control-Allow-Credentials: true
Access-Control-Allow-Headers: content-type, authorization, x-websocket-extensions, x-websocket-version, x-websocket-protocol
Access-Control-Allow-Origin: https://www.websocket.org
Content-Type: text/html
Date: Fri, 22 Nov 2019 10:27:44 GMT
Server: Kaazing Gateway
Content-Length: 63

```

(Optional) Click "refresh" button to test again

region	node name	status	total time
-华中	湖南郴州电信3	400	0m1.393s

2.4. Dig

The command dig is a tool for querying DNS nameservers for information about host addresses, nameservers, and related information.

Steps:

- Select monitors, can also select by region or select all
- Select command dig
- Enter domain

己選擇4個監控點! ▼ dig ⓘ www.baidu.com run

- Click run
- (Optional) Check type/server and select parameters
 - a --type=a record
 - any --type=any
 - ns --type=nameserver
- (Optional) Enter dns server to assign nameserver

☒ type/server a ▼ 114.114.114.114

- Check result

Results:

type=a and assign nameserver (optional)

region	node name	status	total time
+西南	四川成都电信9	www.baidu.com. 897 IN CNAME www.a.shifen.com. www.a.shifen.com. 127 IN A 14.215.177.39 www.a.shifen.com. 127 IN A 14.215.177.38	30 msec
+华北	天津移动4	www.baidu.com. 953 IN CNAME www.a.shifen.com. www.a.shifen.com. 53 IN A 39.156.66.14 www.a.shifen.com. 53 IN A 39.156.66.18	24 msec
+华南	广东广州电信2	www.baidu.com. 1052 IN CNAME www.a.shifen.com. www.a.shifen.com. 76 IN A 14.215.177.39 www.a.shifen.com. 76 IN A 14.215.177.38	31 msec
+华东	上海纪蕴路网通	www.baidu.com. 330 IN CNAME www.a.shifen.com. www.a.shifen.com. 209 IN A 112.80.248.76 www.a.shifen.com. 209 IN A 112.80.248.75	17 msec

type=any

a 已選擇4個監控點! **b** dig **c** www.baidu.com **d** run

e ☒ type/server any dns server

region	node name	status	total time
+西南	重庆网通下载	www.baidu.com. 114 IN CNAME www.a.shifen.com.	2 msec
+华北	天津移动4	www.baidu.com. 837 IN CNAME www.a.shifen.com.	2 msec
+华南	广东广州电信2	www.baidu.com. 295 IN CNAME www.a.shifen.com.	31 msec
+华东	上海纪蕴路网通	www.baidu.com. 650 IN CNAME www.a.shifen.com.	1 msec

type=ns and assign nameserver (optional)

a 已選擇4個監控點! **b** dig **c** www.baidu.com **d** run

e ☒ type/server ns **f** 114.114.114.114

region	node name	status	total time
+西南	四川成都电信9	www.baidu.com. 33 IN CNAME www.a.shifen.com.	32 msec
+华北	天津移动4	www.baidu.com. 30 IN CNAME www.a.shifen.com.	20 msec
+华南	广东广州电信2	www.baidu.com. 720 IN CNAME www.a.shifen.com.	31 msec
+华东	上海纪蕴路网通	www.baidu.com. 33 IN CNAME www.a.shifen.com.	16 msec

(Optional) Expand result for detail

已選擇4個監控點! dig www.baidu.com run

☒ type/server a 114.114.114.114

region	node name	status	total time
华中	湖南郴州电信3	www.baidu.com. 303 IN CNAME www.a.shifen.com. www.a.shifen.com. 156 IN A 14.215.177.38 www.a.shifen.com. 156 IN A 14.215.177.39	21 msec

ANSWER SECTION **CONTENT**

www.baidu.com. 303 IN CNAME www.a.shifen.com.
www.a.shifen.com. 156 IN A 14.215.177.38
www.a.shifen.com. 156 IN A 14.215.177.39

(Optional) Click "refresh" button to test again

region	node name	status	total time
一华中	湖南郴州电信3	www.baidu.com. 303 IN CNAME www.a.shifen.com. www.a.shifen.com. 156 IN A 14.215.177.38 www.a.shifen.com. 156 IN A 14.215.177.39	21 msec

2.5. Ping

Ping is a basic tool that allows users to verify that a particular IP address exists and can accept requests.

Steps:

- Select monitors, can also select by region or select all
- Select command ping
- Enter domain or IP

- Click run
- Check result

Results:

a 已選擇9個監控點!	b ping	c www.baidu.com	d run
e region	node name	status	total time
+西南	重庆网通下载	5 packets transmitted, 5 received, 0% packet loss, time 4004ms	rtt min/avg/max/mdev = 29.596/29.600/29.604/0.153 ms
+华北	天津移动4	5 packets transmitted, 5 received, 0% packet loss, time 4005ms	rtt min/avg/max/mdev = 7.503/7.588/7.662/0.122 ms
+华南	广东广州电信2	5 packets transmitted, 5 received, 0% packet loss, time 4004ms	rtt min/avg/max/mdev = 3.079/3.231/3.413/0.138 ms
+华东	上海纪蕴路网通	5 packets transmitted, 5 received, 0% packet loss, time 4006ms	rtt min/avg/max/mdev = 7.696/7.712/7.737/0.097 ms

(Optional) Expand result for detail

(Optional) Click “refresh” button to test again

region	node name	status	total time
华中	湖南郴州电信3	5 packets transmitted, 5 received, 0% packet loss, time 4005ms	rtt min/avg/max/mdev = 18.896/20.031/23.797/1.904 ms

2.6. Tcping

Tcping is utilized to test the reachability of a host or an IP.

It can also monitor the state of a port.

Steps:

- Select monitors, can also select by region or select all
- Select command tcping
- Enter domain or IP
- Enter port
- Click run
- Check result

Results:

a			
已選擇4個監控點!			
b		c	d
tcping		www.baidu.com	443
e			
run			
f	region	node name	status
total time			
+西南	重庆网通下载	Ping statistics for www.baidu.com:443 5 probes sent. 5 successful, 0 failed. (0.0 % fail)	Approximate trip times in milli-seconds: Minimum = 29.754ms, Maximum = 30.44ms, Average = 30.08ms
+华北	天津移动4	Ping statistics for www.baidu.com:443 5 probes sent. 5 successful, 0 failed. (0.0 % fail)	Approximate trip times in milli-seconds: Minimum = 5.498ms, Maximum = 10.342ms, Average = 7.43ms
+华南	广东广州电信2	Ping statistics for www.baidu.com:443 5 probes sent. 5 successful, 0 failed. (0.0 % fail)	Approximate trip times in milli-seconds: Minimum = 3.17ms, Maximum = 3.407ms, Average = 3.23ms
+华东	上海纪蕴路网通	Ping statistics for www.baidu.com:443 5 probes sent. 5 successful, 0 failed. (0.0 % fail)	Approximate trip times in milli-seconds: Minimum = 7.297ms, Maximum = 11.484ms, Average = 9.94ms

(Optional) Expand result for detail

已選擇4個監控點!			
tcping			
www.baidu.com			
443			
run			
region	node name	status	total time
华中	湖南郴州电信3	Ping statistics for www.baidu.com:443 5 probes sent. 5 successful, 0 failed. (0.0 % fail)	Approximate trip times in milli-seconds: Minimum = 14.462ms, Maximum = 36.72ms, Average = 26.13ms
<div>ANSWER SECTION</div> <div>CONTENT</div> <p>Reply from: 14.215.177.39 seq 0: tcp response from 14.215.177.38 [open] 14.462 ms seq 1: tcp response from 14.215.177.39 [open] 36.355 ms seq 2: tcp response from 14.215.177.38 [open] 28.265 ms seq 3: tcp response from 14.215.177.38 [open] 14.834 ms seq 4: tcp response from 14.215.177.39 [open] 36.720 ms</p> <p>Ping statistics for www.baidu.com:443 5 probes sent. 5 successful, 0 failed. (0.0 % fail) Approximate trip times in milli-seconds:</p>			

(Optional) Click "refresh" button to test again

region	node name	status	total time
华中	湖南郴州电信3	Ping statistics for www.baidu.com:443 5 probes sent. 5 successful, 0 failed. (0.0 % fail)	Approximate trip times in milli-seconds: Minimum = 14.462ms, Maximum = 36.72ms, Average = 26.13ms

3. Appendix

3.1. Overview

We provide about 100 monitors to execute tests from different regions.

3.2. Monitors list

Here is 100 monitors with region and ISP.

#	Region	ISP	Monitor Name
1	亞太AsiaPacific	NTT	新加坡Sin1
2	亞太AsiaPacific	CMC	越南胡志明市CMC
3	亞太AsiaPacific	Telenor	缅甸曼德勒Telenor
4	亞太AsiaPacific	CBN	印尼雅加达CBN
5	亞太AsiaPacific	Purplestones	韩国首尔SEL7
6	亞太AsiaPacific	電信	香港HK4
7	华南Huanan	电信	广东广州电信2
8	华南Huanan	网通	广东广州网通6
9	华南Huanan	移动	广东广州移动5
10	华南Huanan	移动	广东中山移动4
11	华南Huanan	网通	广东东莞网通2
12	华南Huanan	移动	广东汕头移动
13	华南Huanan	电信	广东江门电信4
14	华南Huanan	电信	广东佛山电信6
15	华南Huanan	移动	广东佛山移动2
16	华南Huanan	移动	广东惠州移动
17	华南Huanan	网通	广东揭阳网通4
18	华南Huanan	电信	广东湛江电信5
19	华南Huanan	电信	广西南宁电信3
20	华南Huanan	移动	广西南宁移动3

21	华南Huanan	电信	海南电信3
22	华南Huanan	网通	海南网通
23	华南Huanan	移动	海南移动2
24	华南Huanan	电信	福建泉州电信
25	华南Huanan	网通	福建厦门网通下载
26	华南Huanan	移动	福建厦门移动4
27	华南Huanan	电信	福建福州电信13
28	华东Huadong	移动	江苏扬州移动3
29	华东Huadong	电信	浙江温州电信13
30	华东Huadong	移动	安徽淮北移动
31	华东Huadong	电信	江西景德镇电信2
32	华东Huadong	移动	山东枣庄移动
33	华东Huadong	移动	安徽合肥移动4
34	华东Huadong	电信	江苏南通电信3
35	华东Huadong	电信	浙江金华电信6
36	华东Huadong	移动	浙江杭州石桥移动
37	华东Huadong	移动	浙江宁波移动
38	华东Huadong	网通	山东淄博网通
39	华东Huadong	电信	山东青岛电信下载
40	华东Huadong	移动	江西南昌移动7
41	华东Huadong	电信	江西吉安电信
42	华东Huadong	网通	江苏扬州南网通
43	华东Huadong	移动	江苏连云港移动
44	华东Huadong	网通	安徽芜湖网通
45	华东Huadong	移动	江苏移动8
46	华东Huadong	网通	上海纪蕴路网通

47	华北Huabei	电信	北京北工大电信
48	华北Huabei	网通	北京硅谷网通
49	华北Huabei	移动	北京移动3
50	华北Huabei	电信	天津电信
51	华北Huabei	移动	天津移动4
52	华北Huabei	网通	天津空港网通
53	华北Huabei	网通	山西临汾网通3
54	华北Huabei	移动	山西太原移动5
55	华北Huabei	电信	山西晋中电信
56	华北Huabei	网通	山西运城网通
57	华北Huabei	电信	河北张家口电信
58	华北Huabei	电信	河北怀来电信
59	华北Huabei	电信	河北石家庄电信5
60	华北Huabei	移动	河北石家庄移动4
61	西南Xinan	移动	云南昆明移动4
62	西南Xinan	网通	云南昆明网通5
63	西南Xinan	电信	云南曲靖电信下载2
64	西南Xinan	电信	云南楚雄电信2
65	西南Xinan	网通	四川南充网通下载
66	西南Xinan	电信	四川成都电信9
67	西南Xinan	移动	四川成都移动2
68	西南Xinan	电信	四川绵阳电信3
69	西南Xinan	移动	贵州贵安移动2
70	西南Xinan	网通	贵州贵阳网通8
71	西南Xinan	电信	贵州黔西南电信
72	西南Xinan	电信	重庆水土电信

73	西南Xinan	移动	重庆移动5
74	西南Xinan	网通	重庆网通下载
75	华中Huazhong	电信	河南洛阳电信2
76	华中Huazhong	电信	河南新乡 电信2
77	华中Huazhong	网通	河南漯河网通2
78	华中Huazhong	移动	河南郑州移动3
79	华中Huazhong	电信	湖北孝感电信5
80	华中Huazhong	网通	湖北武汉网通5
81	华中Huazhong	移动	湖北襄阳移动
82	华中Huazhong	网通	湖北随州网通2
83	华中Huazhong	移动	湖南岳阳移动2
84	华中Huazhong	网通	湖南岳阳网通2
85	华中Huazhong	电信	湖南郴州电信3
86	华中Huazhong	网通	湖南郴州网通
87	西北Xibei	电信	甘肃兰州电信13
88	西北Xibei	电信	甘肃天水电信2
89	西北Xibei	移动	陕西咸阳移动4
90	西北Xibei	网通	陕西宝鸡网通3
91	西北Xibei	电信	陕西西咸电信2
92	东北Dongbei	电信	吉林长春电信4
93	东北Dongbei	移动	吉林长春移动
94	东北Dongbei	网通	辽宁丹东网通3
95	东北Dongbei	电信	辽宁朝阳电信2
96	东北Dongbei	移动	辽宁沈阳移动2
97	东北Dongbei	网通	辽宁沈阳网通7
98	东北Dongbei	电信	辽宁铁岭电信2

99	东北Dongbei	电信	黑龙江哈尔滨电信10
100	东北Dongbei	电信	黑龙江牡丹江电信2
101	东北Dongbei	网通	黑龙江绥化网通



樂創互娛科技有限公司
LeTron Entertainment Tech