

Question Responses

1. How would you tell if the TTL is too small?

You can tell if the TTL is too small if the response is an ICMP TIME_EXCEEDED packet and the sender was not the destination.

2. How would you tell if the TTL is too large?

You can't tell as easily if the TTL is too large, just that it was large enough to make it to the server. You can verify that the TTL is indeed too large by sending a packet with a TTL one smaller and seeing if that packet gets a TIME_EXCEEDED.

3. How will you match ICMP responses to the probes?

I matched the probes to my application by binding responses to the port they were sent from.

4. Why would you not get an answer?

The server could not exist, it could block all unknown connections to it (via a firewall) or block connections based on the port used. The router that the packet expires on may also not send ICMP packets, or not ICMP TIME_EXCEEDED in particular.

Data

#	Address	TTL	RTT
1	youtube.com	11	30
3	photobucket.com	15	330
4	codecanyon.net	16	80
5	surveymonkey.com	34	5000
7	templatemonster.com	16	5030
8	clicksor.com	13	40
10	pagesjaunes.fr	12	5730
12	google.com	11	40
13	facebook.com	12	330
14	youtube.com	11	40
15	yahoo.com	16	380
16	baidu.com	16	5730
18	qq.com	16	9520
21	taobao.com	16	5820
22	twitter.com	13	5060
23	linkedin.com	15	5120
24	blogspot.com	14	260
25	google.co.in	11	30
26	sina.com.cn	21	5530
29	wordpress.com	14	5190
31	yahoo.co.jp	16	5820
35	google.de	11	20
36	weibo.com	15	5320
37	tumblr.com	13	20
38	pinterest.com	16	5080

#	Address	TTL	RTT
56	google.it	11	40
57	google.com.hk	13	5120
58	google.es	11	40
60	craigslist.org	11	200
61	blogger.com	14	180
64	go.com	24	200
66	ifeng.com	16	5620
67	xhamster.com	9	400
69	google.com.mx	11	4300
70	stackoverflow.com	15	210
72	alibaba.com	20	5010
73	google.ca	11	40
74	fc2.com	16	5390
75	imgur.com	11	5520
79	vube.com	16	420
81	thepiratebay.sx	16	5830
84	t.co	13	410
85	espn.go.com	24	5120
86	gmw.cn	16	820
87	flickr.com	16	90
88	odnoklassniki.ru	16	320
89	reddit.com	11	300
90	xinhuanet.com	16	5800
91	google.com.tr	11	40
92	aliexpress.com	16	410

39	google.co.uk	11	20
40	google.fr	11	20
41	tmall.com	16	5420
43	360.cn	16	5820
44	sohu.com	15	5810
46	google.co.jp	11	20
47	soso.com	16	5490
48	mail.ru	16	190
51	google.com.br	11	40
52	google.ru	11	70
54	apple.com	16	270

93	adcash.com	15	240
96	blogspot.in	14	120
97	google.com.au	11	170
99	about.com	16	410
100	godaddy.com	64	240
101	people.com.cn	11	8390
103	google.pl	11	50
106	alipay.com	16	5410
109	dailymotion.com	15	410
110	netflix.com	15	400

