

对RV215W的诊断测试

客观

条款说明如何进行对RV215W的诊断测试，覆盖网络工具和端口镜像。网络工具页允许用户执行一些基本故障排除类似ping或跟踪IP地址，执行域名服务器(DNS)查找或者获取和跟踪信息包。这为排除故障是有用的，例如，当您设法推测时，如果一些路由器被连接到RV，如果可以获取和验证在路由器的配置。

端口镜像是进程用于监控网络数据流。它也用于调试和分析网络数据或信息包错误网络的。它监控自其中一个的网络信息包在路由器的端口并且发送该网络信息包的复制到另一个端口从网络被监控。

Note:诊断测试要求互联网连接。

可适用的设备

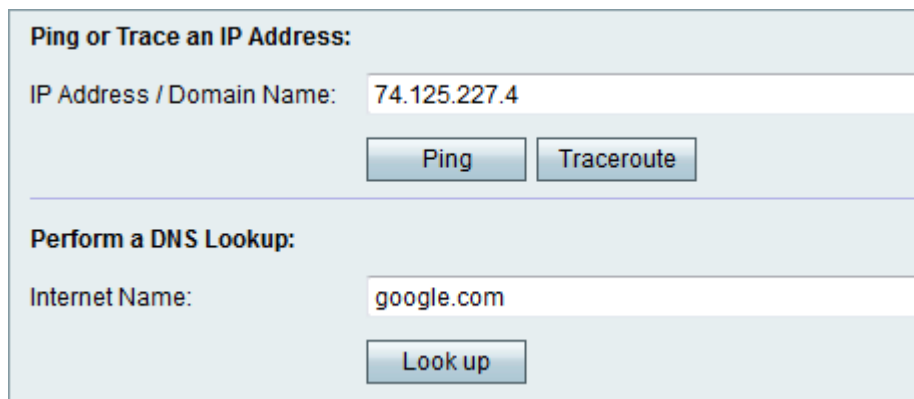
- RV215W

软件版本

- 1.1.0.5

网络工具

步骤1.登陆到Web配置工具，选择**管理>Diagnostics >网络工具**。网络工具页打开：



The screenshot shows a web interface for network diagnostics. It has two main sections. The first section is titled "Ping or Trace an IP Address:" and contains a text input field labeled "IP Address / Domain Name:" with the value "74.125.227.4". Below this field are two buttons: "Ping" and "Traceroute". The second section is titled "Perform a DNS Lookup:" and contains a text input field labeled "Internet Name:" with the value "google.com". Below this field is a button labeled "Look up".

步骤2.输入所需的IP地址或域名在IP地址/域名字段。

Ping 测试

Ping测试用于测试路由器和另一个设备之间的连接在网络被连接到此路由器。ping测试从主机发送互联网控制消息协议(ICMP)响应请求包到目标主机。测试的结果包括状态、信息包传输的接收的损失和往返时间。

步骤1.点击**Ping**。

Ping
Result
PING 74.125.227.4 (74.125.227.4): 64 data bytes
72 bytes from 74.125.227.4: seq=1 ttl=53 time=1020.301 ms
-- 74.125.227.4 ping statistics --
3 packets transmitted, 1 packets received, 66% packet loss
round-trip min/avg/max = 1020.301/1020.301/1020.301 ms

•Ping结果显示。点击**Close**。

Traceroute

Traceroute显示所有路由器当前在目的地IP地址和激活设备之间。30"跳跃" (中间路由器)在此路由器和目的地之间将显示。

步骤1.点击**Traceroute**。

Traceroute
Result
traceroute to 74.125.227.4 (74.125.227.4), 30 hops max, 40 byte packets
1 2.729 ms 1.460 ms 7.163 ms 156.26.30.11
2 9.207 ms 9.539 ms 3.721 ms 192.168.0.3
3 * * * 192.168.0.3 Request timed out.
4 9.871 ms 9.486 ms 5.327 ms 156.26.248.241
5 3.757 ms 9.648 ms 3.648 ms 164.113.216.65
6 12.277 ms 9.805 ms 12.678 ms 164.113.193.38
7 12.565 ms 16.489 ms 19.689 ms 164.113.193.42
8 15.737 ms 12.541 ms 9.835 ms 164.113.192.42
9 19.883 ms 19.661 ms 20.101 ms 64.57.21.125
10 28.978 ms 19.646 ms 19.770 ms 72.14.222.118
11 19.333 ms 19.632 ms 19.677 ms 72.14.233.65
12 29.386 ms 19.656 ms 24.918 ms 216.239.47.54
13 24.110 ms 19.969 ms 22.324 ms 74.125.227.4
Trace complete

•Traceroute结果显示。点击**Close**。

DNS查找

DNS名查找用于检索被给予的主机名的IP地址。

Ping or Trace an IP Address:

IP Address / Domain Name:

Perform a DNS Lookup:

Internet Name:

步骤1.输入域名执行DNS查找在互联网名称字段。

步骤2.点击查寻。

Look up	
Result	
Server:	██████████
Address 1:	██████████ ██████████
Name:	google.com
Address 1:	2001:4860:4002:800::1000
Address 2:	74.125.227.0 dfw06s03-in-f0.1e100.net
Address 3:	74.125.227.1 dfw06s03-in-f1.1e100.net
Address 4:	74.125.227.2 dfw06s03-in-f2.1e100.net
Address 5:	74.125.227.3 dfw06s03-in-f3.1e100.net
Address 6:	74.125.227.4 dfw06s03-in-f4.1e100.net
Address 7:	74.125.227.5 dfw06s03-in-f5.1e100.net
Address 8:	74.125.227.6 dfw06s03-in-f6.1e100.net
Address 9:	74.125.227.7 dfw06s03-in-f7.1e100.net
Address 10:	74.125.227.8 dfw06s03-in-f8.1e100.net
Address 11:	74.125.227.9 dfw06s03-in-f9.1e100.net
Address 12:	74.125.227.14 dfw06s03-in-f14.1e100.net

•DNS结果显示。点击Close。

端口镜像

步骤1.登录到Web配置工具，选择**管理>Diagnostics >端口镜像**。端口镜像页打开：

Mirror Configuration		
Port	Mirror Source	
0 (WAN Port)	<input checked="" type="checkbox"/>	
1	<input type="checkbox"/>	
2	<input checked="" type="checkbox"/>	
3	<input type="checkbox"/>	
4	<input type="checkbox"/>	
Mirror Port	<input type="text" value="3"/>	▼

Step 2.检查从可用端口的期望**镜像源端口**。这是网络端口被监控的端口。

步骤3.从镜像端口下拉列表选择所需的端口。这是网络流量分析的端口。

步骤4.点击“**Save**”。