

# Separate Two LAN Networks with Few Public IPs on RV042, RV042G and RV082 VPN Routers

## Objective

Hosts which are in one VLAN (VLAN1 - 192.168.0.x from ports 1-7) should not communicate with the device in another VLAN (VLAN8- 192.168.0.26 to port 8) of the RV082 at the same time hosts from VLAN1 should have more priority over Internet traffic than clients from VLAN8. Here VLANs are used for security reasons and also to divide LAN on RV042, RV042G and RV082 VPN Routers. Various sections which are in this procedure are listed below:

- Basic LAN and WAN Settings
- How to add one-to-one NAT (Private to Public address)
- Setup priority for ports on VLAN's
- Managing bandwidth for particular VLAN
- How to choose port status for VLAN's
- How to check connectivity between the VLAN's

## Applicable Devices

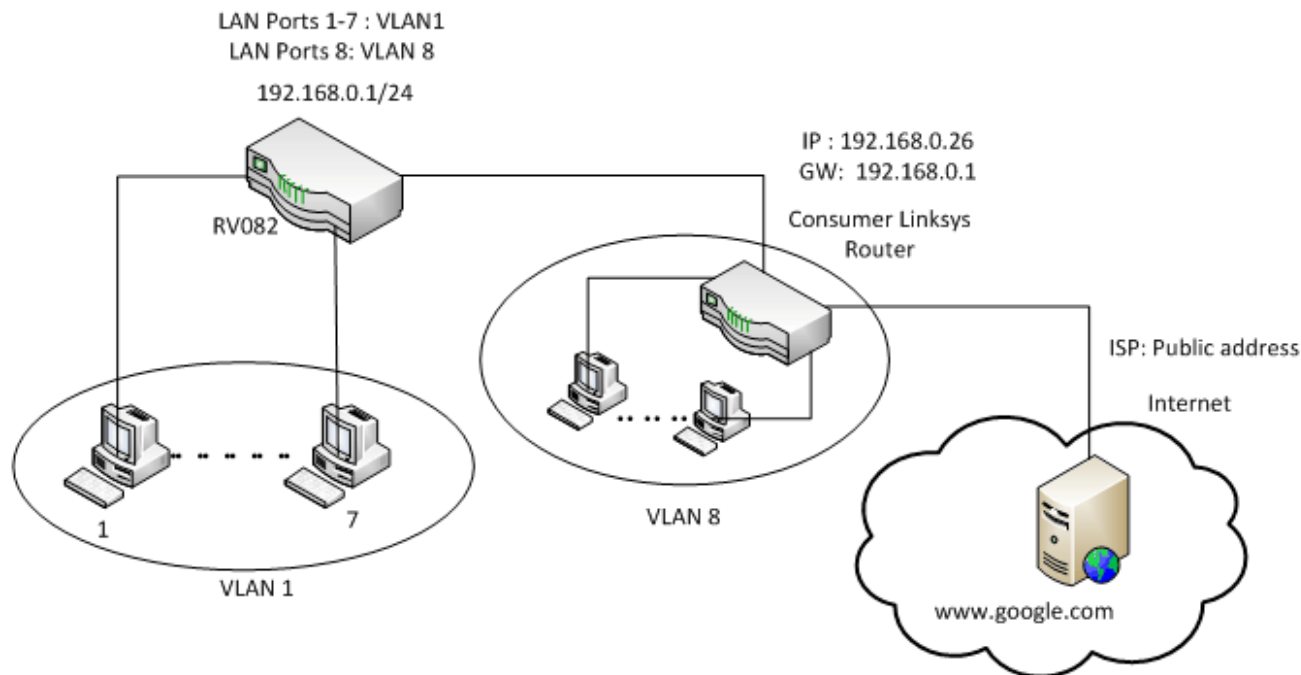
- RV042
- RV042G
- RV082
- Any consumer Linksys Router

## Software Version

- v4.2.1.02

## Topology

The VPN router uses one public IP for WAN1 interface, a few public IPs to use One-to-One NAT and explains how to map them to hosts inside a LAN.



## One to One NAT:

Public address 1 -> 192.168.0.1 (RV082)  
 Public address 2 -> 192.168.0.26 (consumer router)  
 Public address 3 -> 192.168.0.100  
 Public address 4 -> 192.168.0.101  
 Public address 5 -> 192.168.0.102

## In consumer linksys router:

Ports 1 to 7 - VLAN 1  
 Port 8 - VLAN 8

## Separate Two LAN Networks with Few Public IPs on RV082

## Basic LAN and WAN Settings

This article is written with respect to the above topology.

Step 1. Use the web configuration utility to choose **Setup > Network**. The *Setup* page opens:

10/100 8-port VPN Router RV082

**Setup** | System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Network | Password | Time | DMZ Host | Forwarding | UPnP | One-to-One NAT | More... >>

**Network**

Host Name:  (Required by some ISPs)

Domain Name:  (Required by some ISPs)

---

(MAC Address: 00-27-0d-2d-4e-b4)

**LAN Setting**

Device IP Address:  .  .  .  Subnet Mask:

Multiple Subnet Setting

Multiple Subnet

---

**Dual-WAN / DMZ Setting**

Dual WAN  DMZ

---

**WAN Connection Type**

WAN1

Specify WAN IP Address:  .  .  .

Subnet Mask:  .  .  .

Default Gateway Address:  .  .  .

DNS Server (Required) 1:  .  .  .

2:  .  .  .

MTU:  Auto  Manual  bytes

**SITEMAP**

The Setup screen contains all of the router's basic setup functions. The device can be used in most network settings without changing any of the default values. Some users may need to enter additional information in order to connect to the Internet through an ISP (Internet Service Provider) or broadband (DSL, cable modem) carrier.

Host Name & Domain Name: Enter a host and domain name for the Router. Some ISPs (Internet Service Providers) may require these names as identification, and these settings can be obtained from your ISP. In most cases, leaving these fields blank will work.

LAN Setting: This is the Router's LAN IP Address and Subnet Mask. The default value is 192.168.1.1 for IP address and 255.255.255.0 for the Subnet Mask.

[More...](#)

Step 2. In the LAN Settings field, enter the Device IP Address as **192.168.0.1** and the subnet mask as **255.255.255.0**. By default, the IP address will be 192.168.1.1.

10/100 8-port VPN Router RV082

**Setup** | System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Network | Password | Time | DMZ Host | Forwarding | UPnP | One-to-One NAT | More... >>

**Network**

Host Name:  (Required by some ISPs)

Domain Name:  (Required by some ISPs)

---

(MAC Address: 00-27-0d-2d-4e-b4)

**LAN Setting**

Device IP Address:  .  .  .  Subnet Mask:

Multiple Subnet Setting

Multiple Subnet

---

**Dual-WAN / DMZ Setting**

Dual WAN  DMZ

---

**WAN Connection Type**

WAN1

Specify WAN IP Address:  .  .  .

Subnet Mask:  .  .  .

Default Gateway Address:  .  .  .

DNS Server (Required) 1:  .  .  .

2:  .  .  .

MTU:  Auto  Manual  bytes

**SITEMAP**

The Setup screen contains all of the router's basic setup functions. The device can be used in most network settings without changing any of the default values. Some users may need to enter additional information in order to connect to the Internet through an ISP (Internet Service Provider) or broadband (DSL, cable modem) carrier.

Host Name & Domain Name: Enter a host and domain name for the Router. Some ISPs (Internet Service Providers) may require these names as identification, and these settings can be obtained from your ISP. In most cases, leaving these fields blank will work.

LAN Setting: This is the Router's LAN IP Address and Subnet Mask. The default value is 192.168.1.1 for IP address and 255.255.255.0 for the Subnet Mask.

[More...](#)

Step 3. In WAN Connection Type, for WAN1 drop-down list choose **Static IP**.

The screenshot shows the 'Setup' page for a 10/100 8-port VPN Router (RV082). The 'WAN1' section is expanded, and the 'WAN1' connection type is set to 'Static IP'. The 'Specify WAN IP Address' field is highlighted with a red box. The 'Subnet Mask' is set to 255.255.255.0. The 'Default Gateway Address' is set to 192.168.1.1. The 'DNS Server (Required) 1' is set to 192.168.1.1 and '2' is set to 192.168.1.1. The MTU is set to 1500 bytes.

Host Name:  (Required by some ISPs)  
Domain Name:  (Required by some ISPs)

(MAC Address: 00-27-0d-2d-4e-b4 )  
Device IP Address:  .  .  .   
Subnet Mask:

Multiple Subnet Setting  
 Multiple Subnet

Dual-WAN / DMZ Setting  
 Dual WAN  DMZ

WAN1  
Static IP

Specify WAN IP Address:  .  .  .   
Subnet Mask:  .  .  .   
Default Gateway Address:  .  .  .   
DNS Server (Required) 1:  .  .  .   
2:  .  .  .

MTU:  Auto  Manual  bytes

SITEMAP  
The Setup screen contains all of the router's basic setup functions. The device can be used in most network settings without changing any of the default values. Some users may need to enter additional information in order to connect to the Internet through an ISP (Internet Service Provider) or broadband (DSL, cable modem) carrier.  
Host Name & Domain Name: Enter a host and domain name for the Router. Some ISPs (Internet Service Providers) may require these names as identification, and these settings can be obtained from your ISP. In most cases, leaving these fields blank will work.  
LAN Setting: This is the Router's LAN IP Address and Subnet Mask. The default value is 192.168.1.1 for IP address and 255.255.255.0 for the Subnet Mask.  
[More...](#)

Step 4. In Specify WAN IP Address field, enter Public Address 1.

Step 5. Enter the related subnet mask for Public Address 1 in the subnet mask field.

Step 6. In the Default Gateway Address fields, enter the default gateway of public address 1.

Step 7. In DNS Server (Required) enter the first DNS IP address.

Step 8. In the 2 field, enter the second DNS IP address.

Step 9. Click **Save Settings** to save the changes.

**System Summary**

10/100 8-port VPN Router RV082

System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

**System Information**

Serial Number: AEZ28J900806      Firmware version: 2.0.0.19-tm (Feb 20 2009 15:15:20)  
 CPU: Intel DP425-533      DRAM: 32M      Flash: 16M  
 System up time: 0 Days 23 Hours 44 Minutes 49 Seconds (Now: Fri Mar 5 2010 07:20:16)

**Configuration**

If you need guideline to re-configure the router, you may launch wizard. [Setup Wizard](#)

**Port Statistics**

**Network Setting Status**

LAN IP:	192.168.0.1
WAN IP:	---
DMZ IP:	---
Mode:	Gateway
DNS:	---
DDNS:	Off
DMZ Host:	Disabled

**SITEMAP**

The System Summary screen displays the router's current status and settings. This information is read only. If you click the button with underline, it will hyperlink to related setup pages. On the right side of the screen and all other screens in the Utility will be a link to the Site Map, which has links to all of the Utility's tabs.

Serial Number: The serial number of the RV082 unit.

System up time: The length of time in Days, Hours, and Minutes that the RV082 is active.

Firmware version: The current version number of the firmware installed on this unit.

CPU: The type of the RV082 processor. It is Intel DP425.

DRAM: The size of DRAM on the board. It is 32MB.

Step 10. To see the changes made, click **System Summary** in the main tab and see the changes that is made in Network Setting Status.

## Add one-to-one NAT from Private to Public IPs

**LINKSYS**  
A Division of Cisco Systems, Inc.

10/100 8-port VPN Router RV082

Firmware Version: 2.0.0.19-tm

**Setup**

System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Network | Password | Time | DMZ Host | Forwarding | UPnP | One-to-One NAT | More... >>

**One-to-One NAT**

One-to-One NAT : Enable

**Add Range**

Private Range Begin	Public Range Begin	Range Length
192.168.0.100		1

[Update this Range](#)

[Delete selected range](#)      [Add New](#)

[Save Settings](#)      [Cancel Changes](#)

**SITEMAP**

One-to-One NAT creates a relationship which maps valid external addresses to internal addresses hidden by NAT. Machines with an internal address may be accessed at the corresponding external valid IP address.

[More...](#)

**CISCO SYSTEMS**

Step 11. In the web configuration utility, choose **Setup > One-to-One NAT**. The *One-to-One NAT* page opens.

Step 12. In the One-to-One NAT field, check **Enable**.

Step 13. In the Private Address Begin field, enter **192.168.0.100**.

Step 14. In Public Begin Range, enter Public Address 1.

- Step 15. Enter the range length as 1.
- Step 16. Click **Update this Range**.
- Step 17. In the Private Address Begin, enter **192.168.0.101**.
- Step 18. In Public Begin Range, enter Public Address 2.
- Step 19. Enter the range length as 1.
- Step 20. Click **Update this Range**.
- Step 21. In the Private Address Begin, enter **192.168.0.102**.
- Step 22. In Public Begin Range, enter Public Address 3.
- Step 23. Enter the range length as 1.
- Step 24. Click **Update this Range**.
- Step 25. In the Private Address Begin, enter **192.168.0.26**.
- Step 26. In Public Begin Range, enter Public Address 4.
- Step 27. Enter the range length as 1.
- Step 28. Click **Update this Range**.
- Step 29. Click **Save Settings** to save the changes.

## Set Priority for Ports on VLANs

The screenshot shows the Linksys web configuration utility interface. The main content area is titled "Basic Per Port Config." and contains a table with the following data:

Port ID	Interface	Disable	Priority	Speed	Duplex	Auto Neg.	VLAN
1	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
2	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
3	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
4	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
5	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
6	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
7	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
8	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
DMZ/Internet	DMZ	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	
Internet	WAN	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	

The sidebar on the right contains a "SITEMAP" section with the following text:

Port ID:  
They are port 1~8, DMZ/Internet and Internet.

Interface:  
They are LAN, WAN2 or DMZ, WAN1.

Disable:  
Check the box, the port will be disabled. It is a per-port setting.

More...

At the bottom of the page, there are buttons for "Save Settings" and "Cancel Changes".

Step 30. In the web configuration utility, choose **Port Management > Port Setup**. The *Basic Per Port Config.* page opens:



LINKSYS®  
A Division of Cisco Systems, Inc. Firmware Version: 2.0.0.19-tm

10/100 8-port VPN Router RV082

**Port Management** | System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Port Setup | Port Status

Basic Per Port Config.

Port ID	Interface	Disable	Priority	Speed	Duplex	Auto Neg.	VLAN
1	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
2	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
3	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
4	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
5	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
6	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
7	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
8	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
DMZ/Internet	DMZ	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	
Internet	WAN	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	

SITMAP

Port ID:  
They are port 1-8,  
DMZ/Internet and Internet.

Interface:  
They are LAN, WAN2 or  
DMZ, WAN1.

Disable:  
Check the box, the port will  
be disabled. It is a per-port  
setting.

[More...](#)

CISCO SYSTEMS

Save Settings Cancel Changes

- Port ID (1-7) — From the drop-down list choose the Priority as **High**.

LINKSYS®  
A Division of Cisco Systems, Inc. Firmware Version: 2.0.0.19-tm

10/100 8-port VPN Router RV082

**Port Management** | System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Port Setup | Port Status

Basic Per Port Config.

Port ID	Interface	Disable	Priority	Speed	Duplex	Auto Neg.	VLAN
1	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
2	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
3	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
4	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
5	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
6	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
7	LAN	<input type="checkbox"/>	High	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN1
8	LAN	<input type="checkbox"/>	Normal	10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	VLAN8
DMZ/Internet	DMZ	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	
Internet	WAN	<input type="checkbox"/>		10M 100M	Half Full	<input checked="" type="checkbox"/> Enable	

SITMAP

Port ID:  
They are port 1-8,  
DMZ/Internet and Internet.

Interface:  
They are LAN, WAN2 or  
DMZ, WAN1.

Disable:  
Check the box, the port will  
be disabled. It is a per-port  
setting.

[More...](#)

CISCO SYSTEMS

Save Settings Cancel Changes

- Port ID 8 — Choose the Priority as **Normal** and in the VLAN field, choose **VLAN8**.

Step 31. Click **Save Settings** to save the changes.

## Bandwidth Management for VLAN8

## Upstream Setup

A Division of Cisco Systems, Inc. Firmware Version: 2.0.0.19-tm

**10/100 8-port VPN Router** RV082

**System Management**

System Summary | Setup | DHCP | **System Management** | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Dual-WAN | Bandwidth Management | SNMP | Diagnostic | Factory Default | Firmware Upgrade | More... >>

---

**Bandwidth Management**

Bandwidth

**The Maximum Bandwidth provided by ISP**

Interface	Upstream (Kbit/Sec)	Downstream (Kbit/Sec)
WAN1	1024	15360

---

Bandwidth Management Type

Type:  Rate Control  Priority

---

Rate Control

Interface:  WAN1

Service: All Traffic [TCP&UDP/1-65535] Service Management

IP: 192 . 168 . 0 . 26 to 26

Direction: Downstream

Mini. Rate:  Kbit/sec Max. Rate: 4096 Kbit/sec

Enable:

Update this Application

```

All Traffic [TCP&UDP/1-65535]->192.168.0.26-26(Downstream)==>~4096Kbit/sec->WAN1
All Traffic [TCP&UDP/1-65535]->192.168.0.26-26(Upstream)==>~200Kbit/sec->WAN1

```

**SITMAP**

Bandwidth Management refers to the capability of a network to provide better service to selected network traffic. One is Rate Control for minimum bandwidth (guarantee bandwidth) and maximum bandwidth (limit bandwidth) by Service and/or IP Address. The other is Priority for services. Both functionalities can control inbound or Outbound traffic.

[More...](#)

Step 32. In the web configuration utility, choose **System Management > Bandwidth Management**. The *Bandwidth Management* page opens:



A Division of Cisco Systems, Inc. Firmware Version: 2.0.0.19-tm

**10/100 8-port VPN Router** RV082

**System Management**

System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Dual-WAN | Bandwidth Management | SNMP | Diagnostic | Factory Default | Firmware Upgrade | More... >>

---

**Bandwidth Management**

Bandwidth

**The Maximum Bandwidth provided by ISP**

Interface	Upstream (Kbit/Sec)	Downstream (Kbit/Sec)
WAN1	1024	15360

---

Bandwidth Management Type

Type:  **Rate Control**  Priority

---

Rate Control

Interface:  WAN1

Service: All Traffic [TCP&UDP/1-65535]   
 Service Management

IP: 192 . 168 . 0 . 26 to 26

Direction: Downstream

Mini. Rate:  Kbit/sec      Max. Rate: 4096 Kbit/sec

Enable:

```

All Traffic [TCP&UDP/1-65535]->192.168.0.26-26(Downstream)==>~4096Kbit/sec->WAN1
All Traffic [TCP&UDP/1-65535]->192.168.0.26-26(Upstream)==>~200Kbit/sec->WAN1

```

**SITMAP**

Bandwidth Management refers to the capability of a network to provide better service to selected network traffic. One is Rate Control for minimum bandwidth (guarantee bandwidth) and maximum bandwidth (limit bandwidth) by Service and/or IP Address. The other is Priority for services. Both functionalities can control inbound or Outbound traffic.

[More...](#)

Step 33. In the Bandwidth Management field, click **Rate Control**.

A Division of Cisco Systems, Inc. Firmware Version: 2.0.0.19-tm

**10/100 8-port VPN Router** RV082

**System Management**

System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Dual-WAN | Bandwidth Management | SNMP | Diagnostic | Factory Default | Firmware Upgrade | More... >>

**Bandwidth Management**

Bandwidth

**The Maximum Bandwidth provided by ISP**

Interface	Upstream (Kbit/Sec)	Downstream (Kbit/Sec)
WAN1	1024	15360

---

Bandwidth Management Type

Type:  Rate Control  Priority

---

Rate Control

Interface:  WAN1

Service: All Traffic [TCP&UDP/1~65535]

IP: 192 . 168 . 0 . 26 to 26

Direction: Upstream

Mini. Rate:  Kbit/sec Max. Rate:  Kbit/sec

Enable:

All Traffic [TCP&UDP/1~65535]->192.168.0.26-(Upstream)=>~200Kbit/sec->WAN1

**SITMAP**

Bandwidth Management refers to the capability of a network to provide better service to selected network traffic. One is Rate Control for minimum bandwidth (guarantee bandwidth) and maximum bandwidth (limit bandwidth) by Service and/or IP Address. The other is Priority for services. Both functionalities can control inbound or Outbound traffic.

[More...](#)

Step 34. In the Interface field, check **WAN1** in the interface field.

Step 35. In the Service drop-down list, choose **All Traffic[TCP&UDP/1~65535]**.

Step 36. In the IP field, enter **26** in the first field and **26** in the next field.

Step 37. In the Direction drop-down list, choose **Upstream**.

Step 38. Enter the Max. Rate to be **200** kbit/sec.

Step 39. In the Enable field, check **Enable**.

Step 40. Click **Update this application**.

## Downstream Setup

A Division of Cisco Systems, Inc. Firmware Version: 2.0.0.19-tm

**10/100 8-port VPN Router** RV082

**System Management** | System Summary | Setup | DHCP | System Management | Port Management | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Dual-WAN | Bandwidth Management | SNMP | Diagnostic | Factory Default | Firmware Upgrade | More... >>

---

**Bandwidth Management**

The Maximum Bandwidth provided by ISP

Interface	Upstream (Kbit/Sec)	Downstream (Kbit/Sec)
WAN1	1024	15360

Type:  Rate Control  Priority

Interface:  WAN1

Service: All Traffic [TCP&UDP/1~65535]

IP: 192 . 168 . 0 . 26 to 26

Direction: Downstream

Mini. Rate: Kbit/sec Max. Rate: 4096 Kbit/sec

Enable:

Update this Application

All Traffic [TCP&UDP/1~65535]->192.168.0.26-26(Downstream)->~4096Kbit/sec->WAN1  
 All Traffic [TCP&UDP/1~65535]->192.168.0.26-26(Upstream)->~200Kbit/sec->WAN1

**SITMAP**

Bandwidth Management refers to the capability of a network to provide better service to selected network traffic. One is Rate Control for minimum bandwidth (guarantee bandwidth) and maximum bandwidth (limit bandwidth) by Service and/or IP Address. The other is Priority for services. Both functionalities can control inbound or Outbound traffic.

[More...](#)

Step 41. In the Interface field, check **WAN1** in the interface field.

Step 42. In the Service drop-down list, choose **All Traffic[TCP&UDP/1~65535]**.

Step 43. In the IP field, enter **26** in the first box and **26** on the next box.

Step 44. In the Direction drop-down list, choose **Downstream**.

Step 45. Enter the Max. Rate to be **4096** Kbit/sec.

Step 46. In the Enable field, check **Enable**.

Step 47. Click **Update this application**.

Step 48. Click **Save Settings** to save the changes.

## How to Check Port status of 2 VLANs and Ports

### Port Status of VLAN 1-7

Step 49. From the drop-down list choose any Port ID from 1-7. Here, Port ID **2** is chosen.

LINKSYS®  
A Division of Cisco Systems, Inc. Firmware Version: 2.0.0.19-tm

10/100 8-port VPN Router RV082

**Port Management** | System Summary | Setup | DHCP | System Management | **Port Management** | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Port Setup | Port Status

**Port ID :** 2

**Port2 Status**

**Summary**

Type	10Base-T / 100Base-TX
Interface	LAN
Link Status	Up
Port Activity	Port Enabled
Priority	High
Speed Status	100 Mbps
Duplex Status	Full
Auto negotiation	Enabled
VLAN	VLAN1

**Statistics**

Port Receive Packet Count	86593
Port Receive Packet Byte Count	18060400
Port Transmit Packet Count	181193
Port Transmit Packet Byte Count	93381880
Port Packet Error Count	0

**SITMAP**

Users can choose the Port ID from pull down menu to see the status of the selected port.

In summary table, it will show the setting for the port selected by users, such as Type, Interface, Link Status (up or down), Port Activity(on or off), Priority (High or Normal), Speed Status(10Mbps or 100Mbps), Duplex Status (half or full), Auto negotiation (on or off), and VLAN (VLAN group).

[More...](#)

**Note :** Under summary and statistics verify the following.

- Verify that the Priority is **High**.
- Verify that the VLAN is **VLAN1**.
- In the statistics field, verify that the received packet and byte count, transmitted packet and byte count and error count.

## Status of VLAN 8

**Port Management** | System Summary | Setup | DHCP | System Management | **Port Management** | Firewall | ProtectLink | VPN | Log | Wizard | Support | Logout

Port Setup | Port Status

**Port ID :** 8

**Port8 Status**

**Summary**

Type	10Base-T / 100Base-TX
Interface	LAN
Link Status	Up
Port Activity	Port Enabled
Priority	Normal
Speed Status	100 Mbps
Duplex Status	Full
Auto negotiation	Enabled
VLAN	VLAN8

**Statistics**

Port Receive Packet Count	313666
Port Receive Packet Byte Count	215362135
Port Transmit Packet Count	271066
Port Transmit Packet Byte Count	133548752
Port Packet Error Count	0

**SITMAP**

Users can choose the Port ID from pull down menu to see the status of the selected port.

In summary table, it will show the setting for the port selected by users, such as Type, Interface, Link Status (up or down), Port Activity(on or off), Priority (High or Normal), Speed Status(10Mbps or 100Mbps), Duplex Status (half or full), Auto negotiation (on or off), and VLAN (VLAN group).

[More...](#)

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Step 50. From the drop-down list choose Port ID: 8.

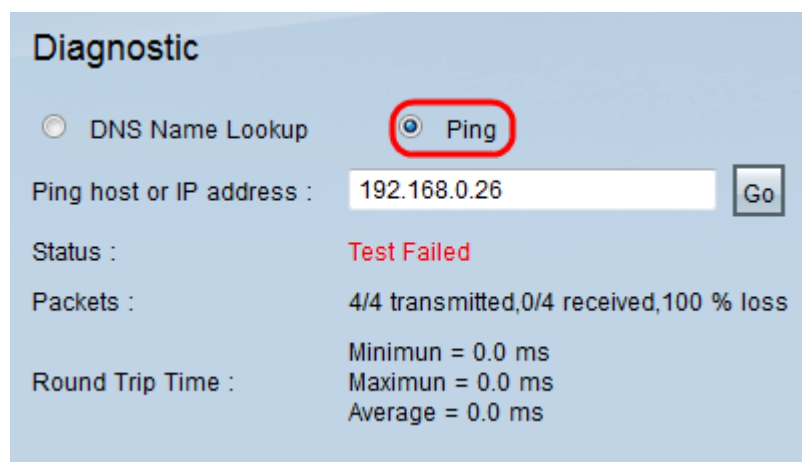
**Note:** Especially port 8 is chosen to see whether it has been setup right.

Under summary and statistics verify the following. These verifications are done to see whether the port has been setup properly:

- Verify that the Priority is **Normal**.
- Verify that the VLAN is **VLAN8**.
- In the statistics field, verify the received packet and byte count, transmitted packet and byte count and error count.

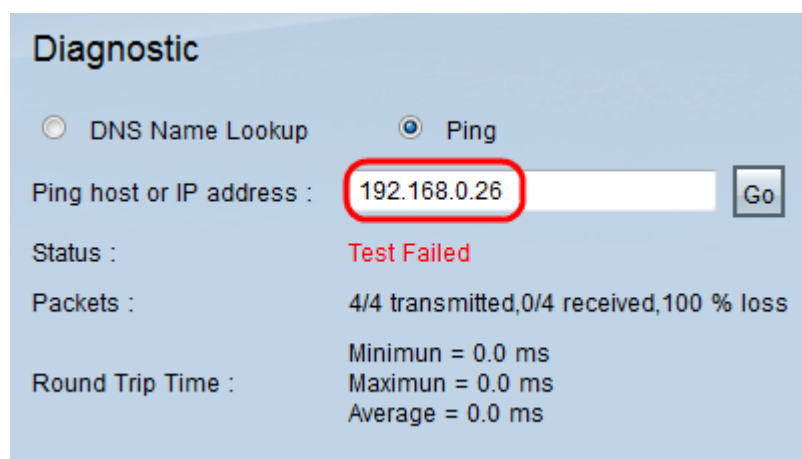
## How to Check Connectivity between VLANs

Step 51. In the web configuration utility, choose **System Management > Diagnostic**. The *Diagnostic* page opens:



The screenshot shows the 'Diagnostic' page with the 'Ping' option selected. The 'Ping host or IP address' field contains '192.168.0.26'. The status is 'Test Failed'. The statistics show '4/4 transmitted, 0/4 received, 100 % loss' and 'Round Trip Time' values of 0.0 ms for minimum, maximum, and average.

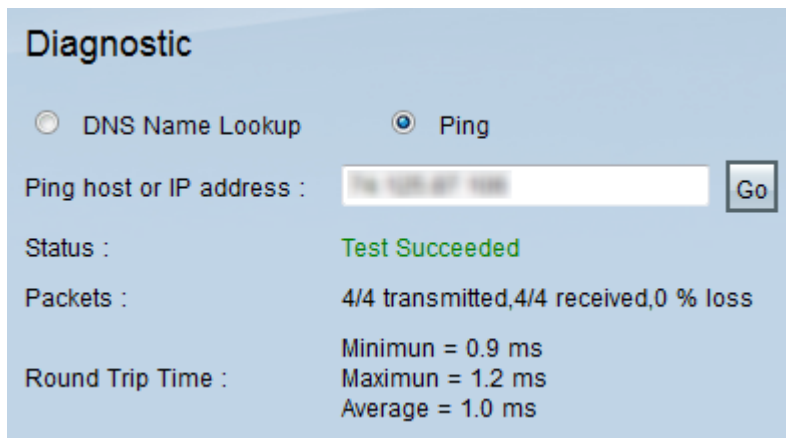
Step 52. Click **Ping**.



The screenshot shows the 'Diagnostic' page with the 'Ping' option selected. The 'Ping host or IP address' field contains '192.168.0.26'. The status is 'Test Failed'. The statistics show '4/4 transmitted, 0/4 received, 100 % loss' and 'Round Trip Time' values of 0.0 ms for minimum, maximum, and average.

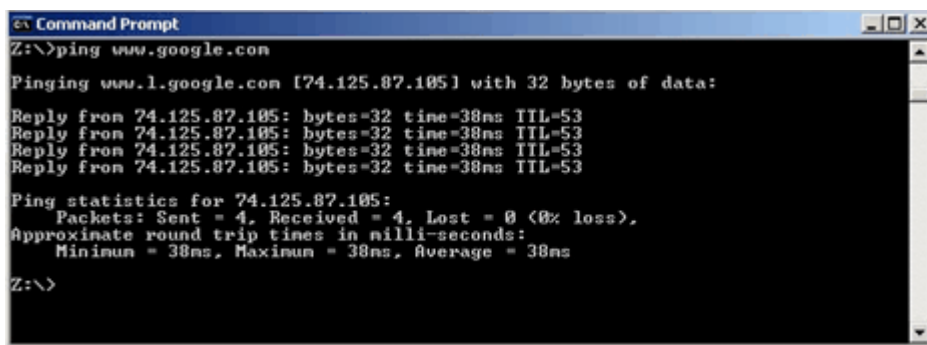
Step 53. In Ping host or IP address field, enter **192.168.0.26** and click **Go**.

**Note:** The status says Test Failed and the packet loss will be 100%. It means that any hosts which are connected to ports in VLAN1 (port1-7) cannot ping IP 192.168.0.26 which is in VLAN 8 on port 8 of RV082.

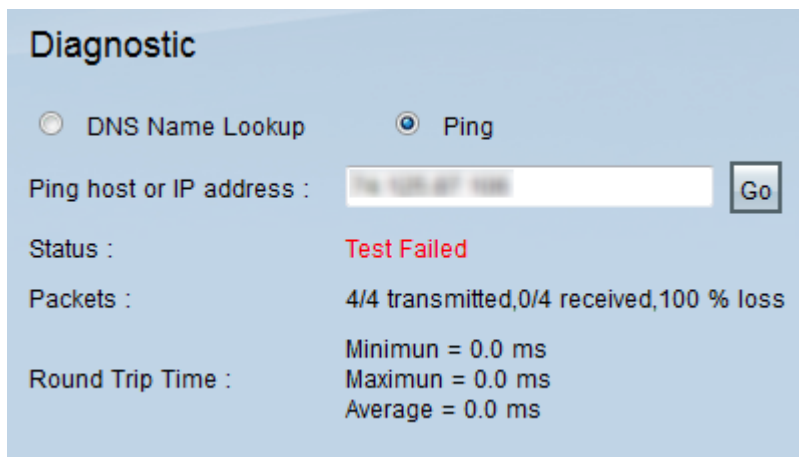


Step 54. Again in Ping host or IP address field, enter ISP address and click **Go**.

**Note:** The status says Test Succeeded and the packet loss will be 0%. It means that 192.168.0.1(RV082) can reach the ISP.



The above image shows that the clients on RV082 can reach www.google.com. Hosts connected to LAN of consumer router which get IP from DHCP of that router can ping and access Internet.



Hosts from LAN of consumer router cannot ping private IPs of RV082 which are inside of VLAN1.