

DrayTek

Vigor1000B

Multi-WAN Security Router



QUICK START GUIDE

V1.0

Vigor1000B

Multi-WAN Security Router

Quick Start Guide

Version:1.0

Firmware Version: V3.9.6.3

(For future update, please visit DrayTek web site)

Date: August 23, 2021

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| | |
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Safety Instructions and Approval

| | |
|----------------------------|--|
| Safety Instructions | <ul style="list-style-type: none">● Read the installation guide thoroughly before you set up the router.● The router is a complicated electronic unit that may be repaired only by authorized and qualified personnel. Do not try to open or repair the router yourself.● Do not place the router in a damp or humid place, e.g. a bathroom.● Do not stack the routers.● The router should be used in a sheltered area, within a temperature range of +5 to +40 Celsius.● Do not expose the router to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.● Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards.● Keep the package out of reach of children.● When you want to dispose of the router, please follow local regulations on conservation of the environment. |
| Warranty | We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to restore the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes. |



EU Declaration of Conformity

We DrayTek Corp. , office at No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan, declare under our sole responsibility that the product

- Product name: Multi-WAN Security Appliance
- Model number: Vigor1000B
- Manufacturer: DrayTek Corp.
- Address: No.26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu 303, Taiwan

is in conformity with the relevant Union harmonisation legislation:

EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and RoHS 2011/65/EU with reference to the following standards

| Standard | Version / Issue date |
|-------------------|-----------------------------|
| EN 55032 | 2015+AC:2016 class A |
| EN 61000-3-2 | 2014 Class A |
| EN 61000-3-3 | 2013 |
| EN 55024 | 2010+A1:2015 |
| EN 62368-1 | 2014/AC:2015 |
| EN IEC 63000:2018 | 2018 |

Hsinchu
(place)

22nd February, 2021
(date)



Calvin Ma / President
(Legal Signature)

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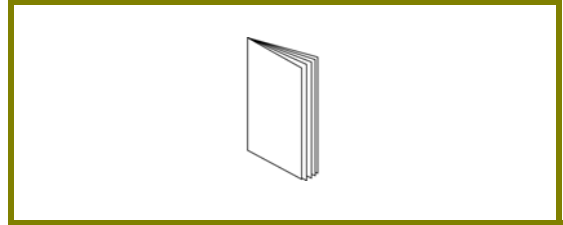
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1. Package Content

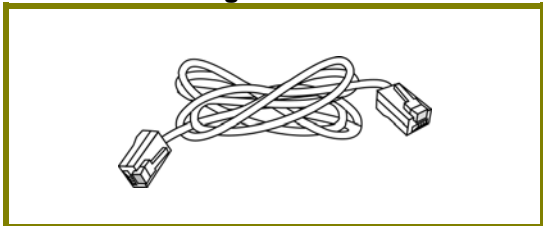
Take a look at the package content. If there is anything missed or damaged, please contact DrayTek or dealer immediately.



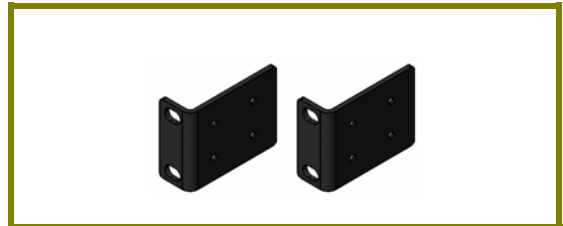
Vigor router



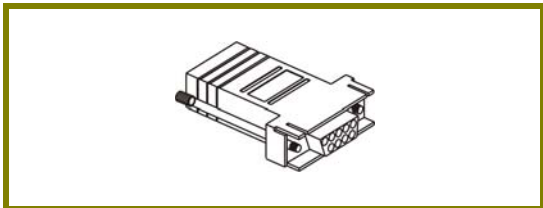
Quick Start Guide



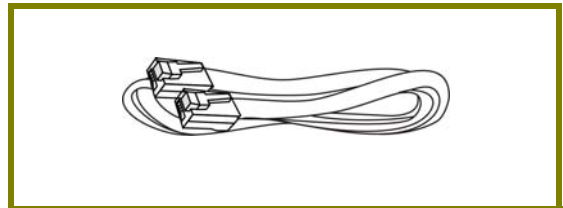
RJ-45 Cable (Ethernet)



Rack mount kit (brackets)

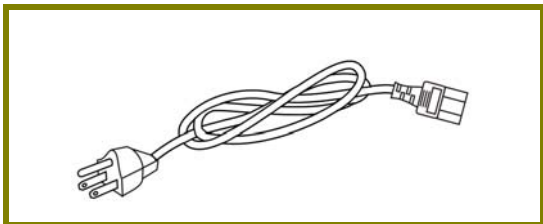


Console Connector

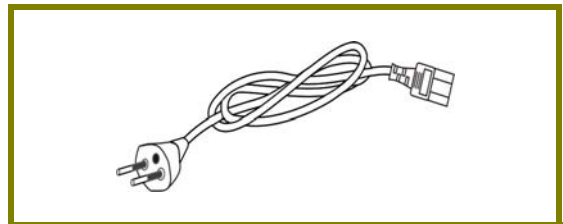


Console Flat Cable

The type of the power cord depends on the country that the router will be installed.



USA/Taiwan-type Power Cord



EU-type Power Cord

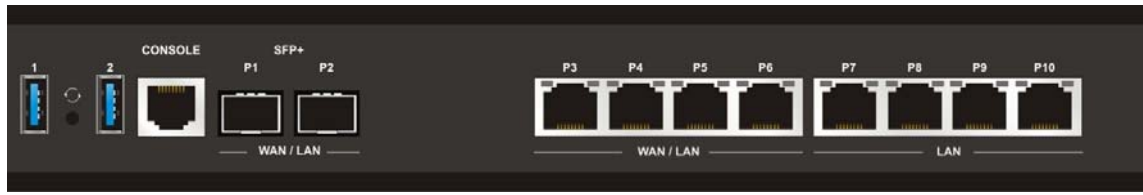
2. Panel Explanation



2.1 LED



| LED | Status | Explanation | |
|---------|----------|--|---|
| PWR | On | The router is powered on. | |
| | Off | The router is powered off. | |
| ACT | Blinking | The system is active. | |
| | Off | The system is hanged. | |
| USB | On | The USB device is installed and ready. | |
| | Off | No USB device is installed. | |
| SFP+ | On | The fiber connection is established. | |
| | Blinking | The data is transmitting. | |
| | Off | No fiber connection is established or the system is hanged. | |
| P3 ~P10 | Left | On | The Ethernet link is established on corresponding port. |
| | | Off | No Ethernet link is established. |
| | | Blinking | The data is transmitting. |
| | Right | On | The Ethernet link is established on corresponding port with 1G Mbps or above. |
| Off | | The Ethernet link is established on corresponding port with less than 1G Mbps. | |

2.2 Connectors



| Interface | Description |
|---|--|
| USB1 / USB2 | Connector for the USB device. |
| Console | Provided for technician use. |
| SFP+ (P1~P2) | Connector for SFP module with the rate of 10G/1G bps. |
| P3~P6 | Connectors for remote network devices or local network devices (WAN/LAN) with the rate of 1G/100M/10M bps. |
| P7~P10 | Connector for local network devices (LAN) with the rate of 1G/100M/10M bps. |
|  | The Factory Reset button is used to restore the default settings. Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration. |
|  | Connector for a power cord. ON/OFF - Power switch. |

The ports "P3 to P6" are switchable. It can be used for LAN connection or WAN connection according to the settings configured in WUI.

3. Hardware Installation

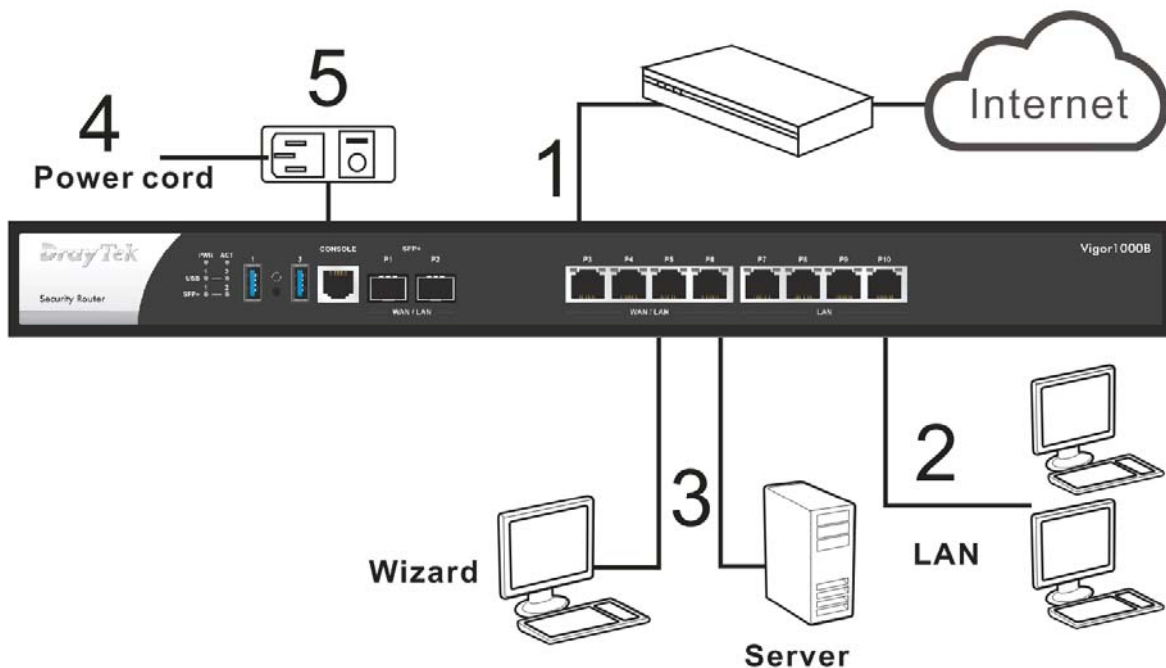
This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

3.1 Connecting Device

Before starting to configure the router, you have to connect your devices correctly.

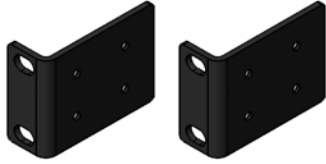
1. Connect a modem to any WAN port of Vigor1000B with Ethernet cable (RJ-45) to access Internet.
2. Connect the other end of the cable (RJ-45) to the Ethernet port on your computer (that device also can connect to other computers to form a small area network). The LAN LED for that port on the front panel will light up.
3. Connect a server/router (depends on your requirement) to any WAN port of Vigor1000B with Ethernet cable (RJ-45). The WAN LED will light up.
4. Connect the power cord to Vigor1000B's power port on the rear panel, and the other side into a wall outlet.
5. Power on the device by pressing down the power switch on the rear panel. The PWR LED should be ON.
6. The system starts to initiate. After completing the system test, the ACT LED will light up and start blinking.

Below shows an outline of the hardware installation for your reference.

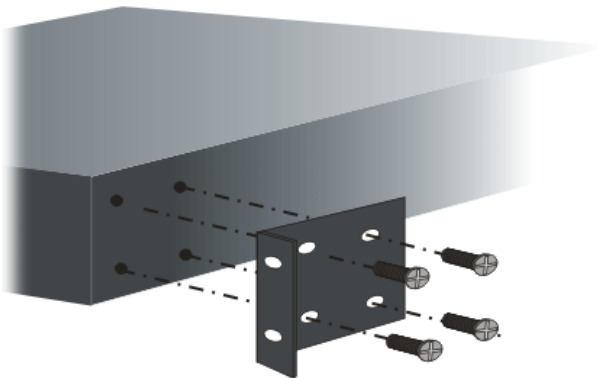


3.2 Rack-Mounted Installation

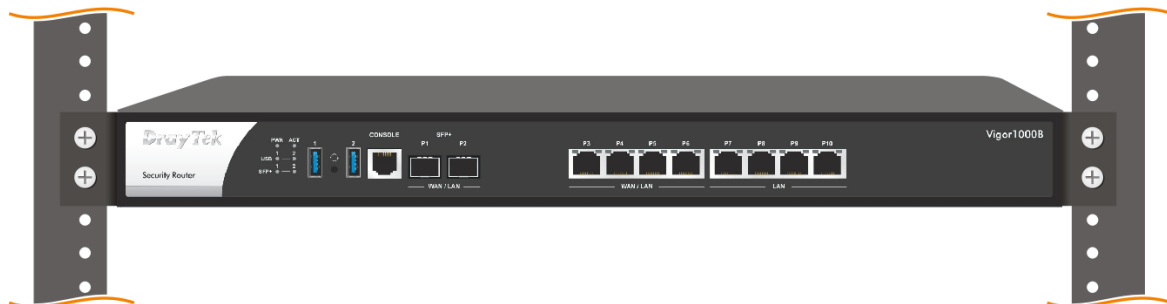
The Vigor1000B can be mounted on the shelf by using standard brackets shown below.



1. Fasten the rack mount kit on both sides of the Vigor router using specific screws.



2. Then, install the Vigor router (with rack mount kit) on the 19-inch chassis by using other four screws.



4. Software Configuration

To access Internet, please finish basic configuration after completing the hardware installation.

1. Make sure your PC connects to the router correctly.



Note

You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of Vigor router 192.168.1.1**. For the detailed information, please refer to - Trouble Shooting of the user's guide.

2. Open a web browser on your PC and type **http://192.168.1.1**. A pop-up window will open to ask for username and password. Please type "admin/admin" as the Username/Password and click **Login**.

DrayTek
Vigor1000B

Username
admin

Password

Login

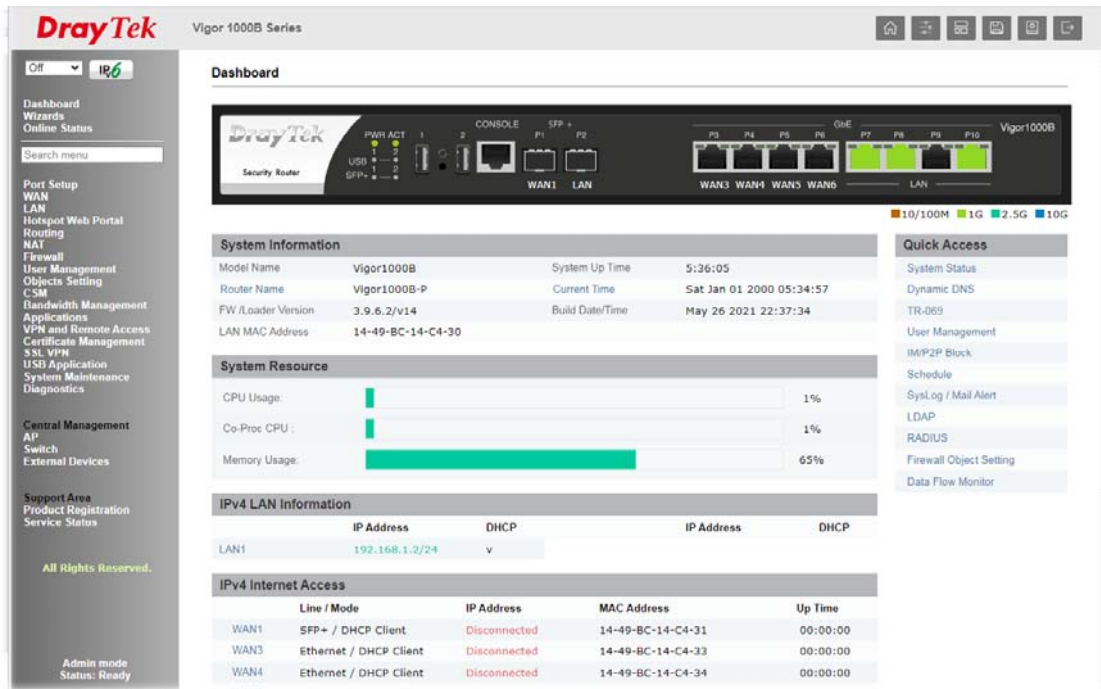
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Note

If you fail to access to the web configuration, please go to "Trouble Shooting" on User's Guide for detecting and solving your problem.

3. Now, the Main Screen will pop up.



4. Open WAN>>Internet Access. WAN1 is dedicated for SFP connection; WAN3 ~WAN6 are designed for Ethernet connection. When your ISP provides fiber connection, click **Details Page** of WAN1. If not, click **Details Page** of WAN3 ~ WAN6 according to the physical connection.

WAN >> Internet Access

Internet Access

| Index | Display Name | Physical Mode / Port | Access Mode | | |
|-------|--------------|----------------------|----------------------|--------------|------|
| WAN1 | | SFP+ / P1 | Static or Dynamic IP | Details Page | IPv6 |
| WAN3 | | Ethernet / P3 | Static or Dynamic IP | Details Page | IPv6 |
| WAN4 | | Ethernet / P4 | Static or Dynamic IP | Details Page | IPv6 |
| WAN5 | | Ethernet / P5 | Static or Dynamic IP | Details Page | IPv6 |
| WAN6 | | Ethernet / P6 | Static or Dynamic IP | Details Page | IPv6 |

DHCP Client Option

Here, we take WAN3 as an example.

There are three access modes for you to configure. Choose PPPoE, Static or Dynamic IP or PPTP/L2TP according to the access mode offered by your ISP.

PPPoE

1. Click Details Page of WAN3. When the following page appears, choose PPPoE.

WAN >> Internet Access

WAN 3

| PPPoE | Static or Dynamic IP | IPv6 |
|---|---|------|
| <input type="radio"/> Enable <input checked="" type="radio"/> Disable | | |
| ISP Access Setup Username <input type="text"/> Max: 63 characters Password <input type="text"/> Max: 62 characters More Options | PPP/MP Setup PPP Authentication <input type="text" value="PAP/CHAP/MS-CHAP/MS-CHAPv2"/> Idle Timeout <input type="text" value="-1"/> second(s) IP Assignment <input type="radio"/> Static <input checked="" type="radio"/> Dynamic (IPCP) Fixed IP Address <input type="text"/> <input type="button" value="WAN IP Alias"/> | |
| WAN Connection Detection Mode <input type="text" value="PPP Detect"/> | Dial-Out Schedule Index(1-15) in <u>Schedule</u> Setup: <input type="text" value="None"/> => <input type="text" value="None"/> => <input type="text" value="None"/> => <input type="text" value="None"/> | |
| MTU <input type="text" value="1492"/> (Max:1492) <input type="button" value="Path MTU Discovery"/> | TTL <input checked="" type="checkbox"/> Change the TTL value <input checked="" type="radio"/> Default MAC Address <input type="radio"/> Use the following MAC Address <input type="text" value="00:1D:AA:18:E7:33"/> | |

2. After clicking **Enable** and entering the Username/Password provided by your ISP, click **OK** to get the following page.

System Maintenance >> Reboot System

Reboot System

The router needs to be rebooted for the WAN configuration changes to take effect.

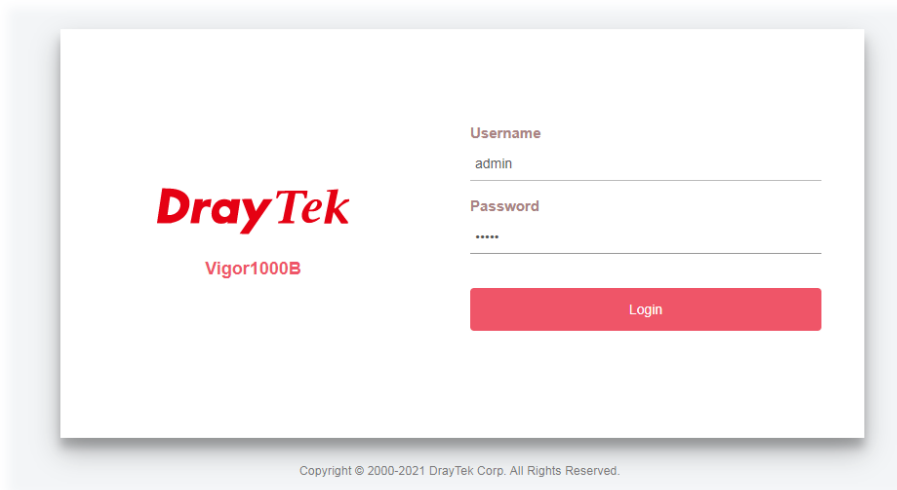
3. To reboot the system, click **OK** again.

System Maintenance >> Reboot System

Reboot System

Router is restarting. Please wait for around **10 seconds**. After booting router, you could click the following URL
LAN 1: <http://192.168.1.1:80>
to connect to router's homepage again.

4. Later, Vigor system will reboot. Please login Vigor router again.



5. Then, you can enjoy surfing on the Internet.

Static or Dynamic IP

1. Click Details Page of WAN3. When the following page appears, choose Static or Dynamic IP.

WAN >> Internet Access

WAN 3

| PPPoE | Static or Dynamic IP | IPv6 |
|---|----------------------|------|
| <input checked="" type="radio"/> Enable <input type="radio"/> Disable | | |
| IP Network Settings | | |
| <input checked="" type="radio"/> Obtain an IP address automatically | | |
| More Options + | | |
| <input type="radio"/> Specify an IP address | | |
| IP Address <input type="text"/> | | |
| Subnet Mask <input type="text"/> | | |
| Gateway IP Address <input type="text"/> | | |
| <input type="button" value="WAN IP Alias"/> | | |
| DNS Server IP Address | | |
| Primary Server <input type="text" value="8.8.8.8"/> | | |
| Secondary Server <input type="text" value="8.8.4.4"/> | | |
| WAN Connection Detection | | |
| Mode <input type="text" value="ARP Detect"/> | | |
| MTU | | |
| <input type="text" value="1500"/> <input type="button" value="Path MTU Discovery"/> | | |
| Keep WAN Connection | | |
| <input type="checkbox"/> Enable PING to keep alive | | |
| PING to the IP <input type="text"/> | | |
| PING Interval <input type="text" value="0"/> minute(s) | | |
| TTL | | |
| <input checked="" type="checkbox"/> Change the TTL value | | |
| RIP Routing | | |
| <input type="checkbox"/> Enable RIP | | |
| Bridge Mode | | |
| <input type="checkbox"/> Enable Bridge Mode | | |
| Bridge Subnet <input type="text" value="LAN 1"/> | | |
| MAC Address | | |
| <input checked="" type="radio"/> Default MAC Address | | |
| <input type="radio"/> Use the following MAC Address | | |
| <input type="text" value="00"/> : <input type="text" value="1D"/> : <input type="text" value="AA"/> : <input type="text" value="18"/> : <input type="text" value="E7"/> : <input type="text" value="33"/> | | |

2. After clicking Enable and configuring the settings according to the data provided by your ISP, click OK to get the following page.

System Maintenance >> Reboot System

Reboot System

The router needs to be rebooted for the WAN configuration changes to take effect.

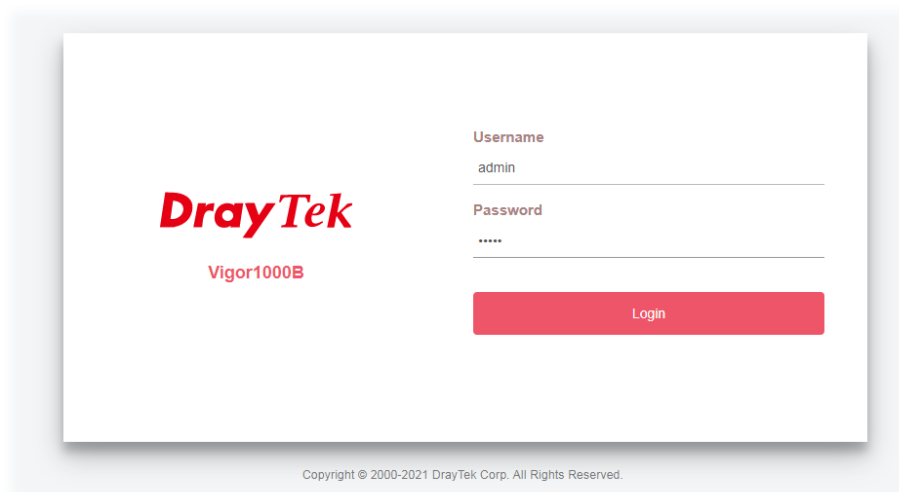
3. To reboot the system, click OK again.

System Maintenance >> Reboot System

Reboot System

Router is restarting. Please wait for around **10 seconds**. After booting router, you could click the following URL
LAN 1 : <http://192.168.1.1:80>
to connect to router's homepage again.

4. Later, Vigor system will reboot. Please login Vigor router again.



5. Then, you can enjoy surfing on the Internet.

5. Customer Service

If the router cannot work correctly after trying many efforts, please contact your dealer for further help right away. For any questions, please feel free to send e-mail to support@draytek.com.

Be a Registered Owner

Web registration is preferred. You can register your Vigor router via <https://myvigor.draytek.com>.

Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

<https://www.draytek.com>

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Version 2, June 1991

For any question, please feel free to contact DrayTek technical support at support@draytek.com for further information.