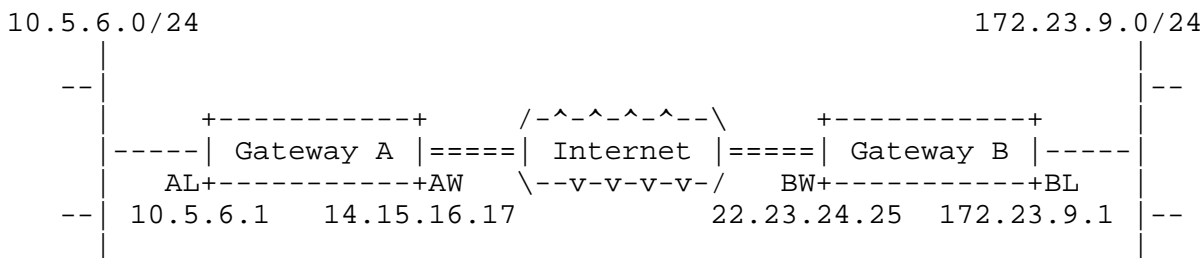


VPNC Test Documentation

This document can be used for configuring the BANDIT for the following test scenario.

Scenario 1: Gateway-to-gateway with preshared secrets

The following is a typical gateway-to-gateway VPN that uses a preshared secret for authentication.



Gateway A connects the internal LAN 10.5.6.0/24 to the Internet. Gateway A's LAN interface has the address 10.5.6.1, and its WAN (Internet) interface has the address 14.15.16.17.

Gateway B connects the internal LAN 172.23.9.0/24 to the Internet. Gateway B's WAN (Internet) interface has the address 22.23.24.25. Gateway B's LAN interface address, 172.23.9.1, can be used for testing IPsec but is not needed for configuring Gateway A.

The IKE Phase 1 parameters used in Scenario 1 are:

- Main mode
- TripleDES
- SHA-1
- MODP group 2 (1024 bits)
- pre-shared secret of "hr5xb84l6aa9r6"
- SA lifetime of 28800 seconds (eight hours) with no kbytes rekeying

The IKE Phase 2 parameters used in Scenario 1 are:

- TripleDES
- SHA-1
- ESP tunnel mode
- MODP group 2 (1024 bits)
- Perfect forward secrecy for rekeying
- SA lifetime of 3600 seconds (one hour) with no kbytes rekeying
- Selectors for all IP protocols, all ports, between 10.5.6.0/24 and 172.23.9.0/24, using IPv4 subnets

To set up Gateway A for this scenario, use the following steps:

Getting started

Any Async applications such as HyperTerminal, ProComm, Qmodem, etc. will work.

A straight-through RJ45 cable and serial connector is provided to access the Supervisory port on the front of the BANDIT.

Async Parameters

- Data Rate - 9600
- Data Bits - 8
- Parity - None
- Stop Bits - 1

How to Navigate the Menu

- 1 Press **Enter** to display the *Main Menu*. (Each function or sub-menu is selected by the corresponding number or letter.) Some selections are taken immediately after entering, other require pressing the "Enter" key
- 2 Press the **Esc** to go to the previous menu.
- 3 Press **Ctrl Z** to go directly to the *Main Menu*, or press **Esc** a few times.
- 4 After changing parameters, there are two steps required from the main menu.
 - ❖ "WRITE" - This saves the parameters to memory. "RESET" - This activates the new changes.

The BANDIT has a menu selection that allows for configuring VPN applications very quickly. This is called "QuickStart Config Builder." This option simplifies the configuration by displaying only the options required for a particular VPN scenario. The information below is a guide for configuring the VPNC test configurations. For additional information, please refer to the BANDIT Quick Installation Guide.

Please contact Colin Roper at 703-318-4381 if you have any questions.

Scenario 1: BANDIT as a Gateway in location "Gateway A"

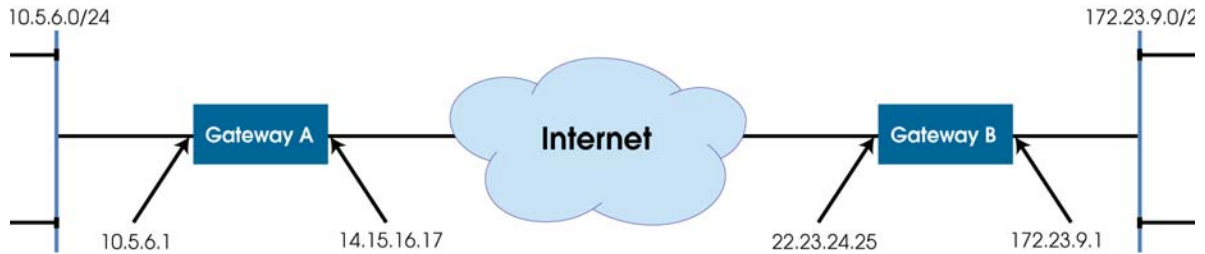


Figure 1. Scenario 1

How to Configure the BANDIT for a Scenario 1

- 1 From the *Main Menu*, select **Option 1** (QuickStart Config Builder).
- 2 Select **1** (Generic).
- 3 Select **7** (Ethernet WAN VPN Gateway Initiator).
- 4 Select **1** (System Name).
- 5 Enter a name of choice, e.g., "BANDIT" (15 characters maximum).
- 6 Select **2** (LAN Interface IP).
- 7 Enter **10.5.6.1**, then press **Enter**.
- 8 Accept the /24 Mask by pressing **Enter**.
- 9 Select **4** (WAN Interface IP).
- 10 Enter **14.15.16.17**, then press **Enter**.
- 11 Accept the /24 Mask by pressing **Enter**, or change to the appropriate mask.
- 12 Enter the Default Gateway (Next Hop Router), press **Enter**.
- 13 Select **6** (VPN Gateway) and enter **22.23.24.25**, press **Enter**
- 14 Select **7** (VPN user ID) and enter anything i.e. **123** (this is for Aggressive mode only. This Quick Config. defaults to Aggressive mode and needs this entry in order to continue)
- 15 Select **8** (VPN Pre-Shared Key) and enter "**hr5xb8416aa9r6**" (you will be prompted to re-enter)
- 16 Select **9** (Remote Subnet).
- 17 Enter **172.23.9.0**, the press **Enter**.
- 18 Accept the /24 Mask by pressing **Enter**.

19 Select **L** (Load above Config) and select **Y** to continue

- ❖ The options entered above are now saved, however not configured until after a RESET which will be done after the configuration is complete.

20 Press Esc (escape) 3 times or Ctrl Z to return to the main menu

The following will change default parameters in the Profile

1 From the *Main Menu*, select **Option 2** (Typical Configurations).

2 Select **4** (VPN Profiles).

3 Type **M** for modify, then select **Entry # 1**.

4 Select **2** (Tunneling Mode), then select **Entry #1** for Main Mode.

5 Select 10 (Phase 2 Proposal)

6 Modify the proposals by selecting **1** through **4**.

7 Select **Option 5** (Life) and set it to 3600

- ❖ Press **Esc** 3 times then press **Y** to keep the changes

8 Press **Esc** 2 times or **Ctrl Z** to return to the *Main Menu*.

9 From the *Main Menu*, select **W** to write the configuration, enter **Y** for Yes then **Enter** when prompted for WRITE Password. (No write passwords are set in defaults)

- ❖ Press **Enter** to continue when prompted after the Write has taken place

10 From the *Main Menu* Select **R** (Reset) then **Y** when prompted to Reset the BANDIT

- ❖ The BANDIT is now ready to be a Initiator or Responder

Note: After changing any parameters (except passwords which are changed immediately without write or reset) you can go directly to (R) Reset if you are ready to enable the changes. This will automatically do the (W) Write command first.

Ways to Establish a VPN Tunnel to a Gateway

- 1 Pinging an address on the 172.23.9.0 subnet from a device on the 10.5.6.0 subnet will initiate a tunnel to Gateway B
- 2 From the *Main Menu*, select **4** (Tools)
- 3 Select **1** (Ping) and enter an IP address on the remote subnet.
- 4 When prompted with a Source address (Default WAN address) press the **Back Space** key once to delete the last digit in the IP address and press **Enter** (this defaults the Private address as the source address. You could also type the address by deleting all the digits and entering it manually)
- 5 The ping menu will then prompt you for additional options. By pressing the Enter key for each prompt, 5 pings will be sent
- 6 From the *Main Menu*, select **Y** (System Administration). ("encore" is the default password.)
- 7 Select **V** (VPN commands), then select **Option 1** to establish a tunnel. ("Remote" is the default name for the tunnel.)

How to Monitor the Tunnel Activity

- 1 From the *Main Menu*, select **S** (Statistics).
- 2 Select **V** (VPN Statistics).
- 3 Press the space bar to scroll through the statistics pages, or select other keys that represent other functions. (Key functions are listed at the bottom of each screen.)