Panda GateDefender Integra

HOWTO:How to configure the NAT rules and the router in a typical network scenario after installing Panda GateDefender Integra.

'How-to' guides to configure the NAT rules and the router after installing Panda GateDefender Integra

Panda Security wants to ensure you get the most out of GateDefender Integra. For this reason, we offer you all the information you need about the characteristics and configuration of the product. Refer to **http://www.pandasecurity.com/** and **http://www.pandasecurity.com/enterprise/support/** for more information.

'How-to' guides for Panda GateDefender Integra

The software described in this document is delivered under the terms and conditions of the end user license agreement and can only be used after accepting the terms and conditions of said agreement.

The anti-spam technology in this product is provided by Mailshell. The web filtering technology in this product is provided by Cobion.

Contents

Diagrams

Symbols and fonts used in this guide. Icons used in this documentation:

Note.Provides additional information and useful data.

Warning.Highlights the importance of a concept.

Tip. Useful ideas to help you get the most out of the program.

Reference.Other points that offer more information that you might find useful.

Fonts and styles used in this document:

Bold: Names of menus, options, buttons, windows or dialog boxes.

Code:Names of files, extensions, folders, commandline information or configuration files such as, scripts.

Italics: Names of options related to the operating system and programs and files with their own name.

1. Introduction

This document describes the steps required to change the configuration of the NAT rules and the router in a typical network environment once Panda GateDefender Integra has been implemented.

The new configuration will allow you to create a network between the internal router interface and Panda GateDefender Integra's external interface which will guarantee, among other things, the correct network and the default gateway directioning.

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2. Scenario before and after the integration of Panda GateDefender Integra in the network

2.1. Scenario before the installation of the GateDefender Integra device

Figure 1 shows one of the most common network scenarios. In this structure there is a configurable router whose external interface has the following public IP address: 85.85.85.85, the only one on the network.

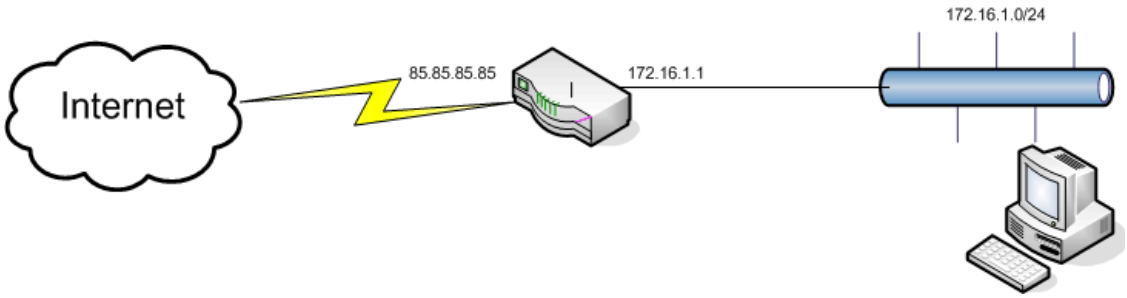

Figure 1: Scenario before the installation of Integra.

Before installing Panda GateDefender Integra in this network model, the router carries out the following NAT (Network Address Translation) tasks:

- SNAT[1] (Source NAT): Allows all the private range of network addresses to leave the Internet with the public IP address of the router interface.

- DNAT[2] (Destination NAT): Allows the services the client wants to publish to be accessible from the Internet, via the single IP address.

[1] SNAT: Source Network Address Translation.
For more information, refer to our Internet FAQ: **How can I configure SNAT in my Panda GateDefender Integra?**
[2] DNAT: Destination Network Address Translation.
For more information, refer to our Internet FAQ: **HOWTO: How to configure DNAT to publish the internal services to the Internet in my Panda GateDefender Integra**

2.2. The resulting scenario of the GateDefender Integra device on the network

Usually, when Panda GateDefender Integra is connected to the network (see figure 2), a new network needs to be created between the router's internal interface and Panda GateDefender Integra's external interface. The aim, among other things, is to maintain the network and default gateway directioning.

This implies changing the existing router configuration parameters before integrating the device in the network.

Figure 2.- Scenario after the installation of Integra

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2.2.1 How to configure the network's access to the Internet

There are two ways of configuring network users' access to the Internet.

- Create a static path in the router indicating the way to reach the network via Panda GateDefender Integra. This way, it is not necessary to configure the NAT rules in the device, since this path will be used for traffic inversely. Without it, the requests will go to the Internet since the default path in the Integra device is the router, although the router cannot direct the replies to the network.

- Create a SNAT rule in Panda GateDefender Integra so that all traffic whose source is the 172.16.1.0/24 network, the origin IP address is changed to the 192.168.1.2 IP address. In this case, SNAT is done twice. It is also obligatory to carry out this configuration in the router so that all the traffic leaves with the public IP address.

2.2.2 Accessing network services from the Internet

There is only one option for Internet users to access LAN services: To configure the DNAT rules in the router.

In this case, LAN users will have the same services published than those before putting GateDefender Integra on the network. The router performs DNAT to a 172.16.1.0-range IP address (in the same way as before installing Panda GateDefender Integra, to afterwards route it via the appliance with the configured static path.

A DMZ could be created with Panda GateDefender Integra. In this case, the DNA rule in the router would have to be changed. This way, the destination would not be the network, but another subnetwork, the DMZ network, even though in this case, DNAT would always be done on the router; not on the Integra device.

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