# Exinda How to Guide:
# Anonymous Proxy Detection

Exinda Firmware Version 6.1



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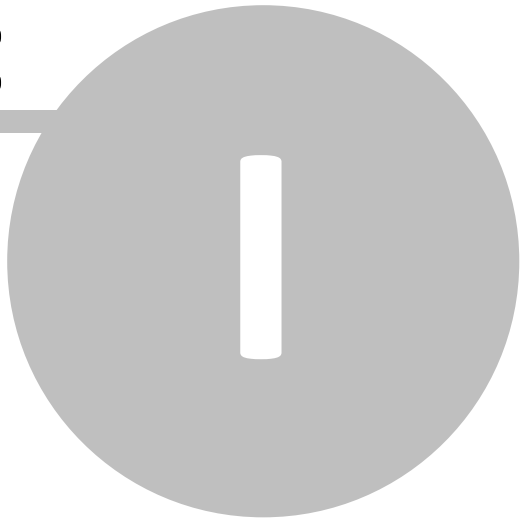


# 1 Introduction

Anonymous Proxy Detection

Exinda Firmware Version: 6.1



## 1.1 Using this Guide

Throughout the manual the following text styles are used to highlight important points:

- Useful features, hints and important issues are called "notes" and they are identified in a light blue background.

**Note:** This is a note.

- Practical examples are presented throughout the manual for deeper understanding of specific concepts. These are called "examples" and are identified with a light green background.

This is an example.

- Warnings that can cause damage to the device are included when necessary. These are indicated by the word "caution" and are highlighted in yellow.

**Caution:** This is a caution.

# Part

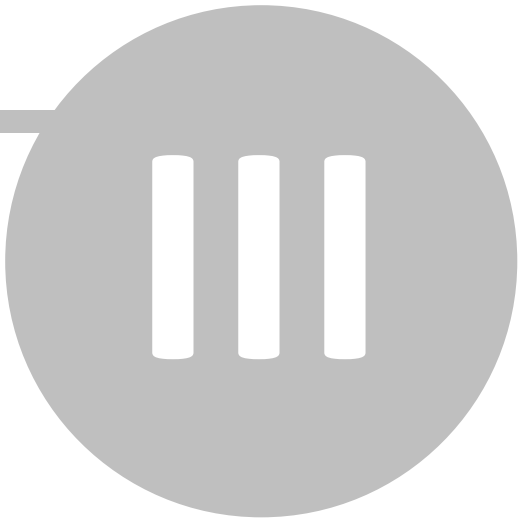
# 2 Overview

Anonymous Proxies are typically used to circumvent security policies, allowing users to access prohibited recreational, adult or other non-business sites by tunneling this traffic over a regular or encrypted HTTP session. Anonymous Proxies also provide anonymity - users accessing websites through an Anonymous Proxy can't easily be traced back to their original IP.

Starting with ExOS 5.3, Exinda appliances have built-in support for Anonymous Proxy detection. The Exinda appliance will receive daily updates from www.exinda.com containing updated Anonymous Proxy definitions, much like anti-virus applications receive daily threat updates.

This How to Guide explains how to enable Anonymous Proxy detection and how to monitor and control Anonymous Proxy traffic.

# Part



# 3 Enabling Anonymous Proxy Detection

The Anonymous Proxy service is disabled by default. In order to enable this feature, navigate to Objects | Applications | Anonymous Proxy using the Web UI, Advanced mode.

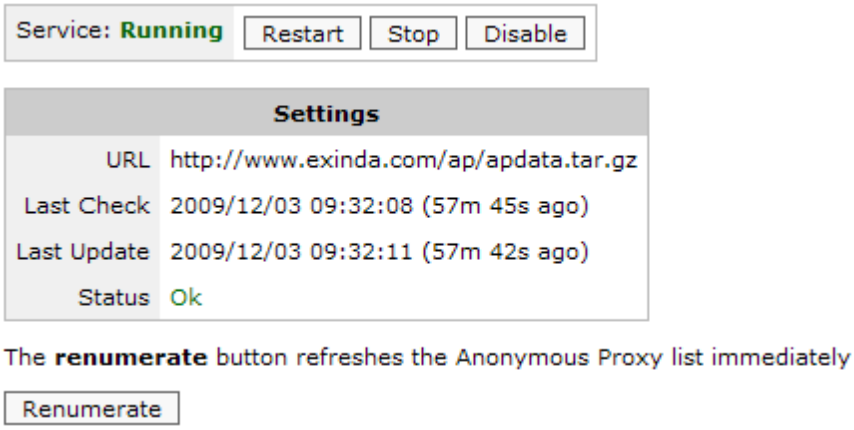



**Figure 1: The form to configure and enable the Anonymous Proxy service.**

This page allows you to start the Anonymous Proxy service and also check when the definitions were last updated. The 'Renumerate' button allows you to force the Anonymous Proxy service to fetch the latest definitions immediately.

Given that Anonymous Proxies are constantly changing, the Anonymous Proxy service will automatically retrieve the latest Anonymous Proxy definitions from the Exinda servers on a daily basis. If the Anonymous proxy service is stopped or disabled the last retrieved definitions will be used for detection of Anonymous proxy.

**Note:** In order to receive daily Anonymous Proxy definition updates, the Exinda appliance must we able to contact the www.exinda.com web servers and the appliance must also have valid software subscription.

The Anonymous proxy ASAM is another component of the Anonymous Proxy detection. This works in combination with the Anonymous Proxy service and it is enabled by default. To disable this ASAM, navigate to System | Setup | Monitoring using the Web UI - Advanced mode. If the service is stopped and Anonymous proxy detection is no longer required, disabling the ASAM will clear the existing definitions.

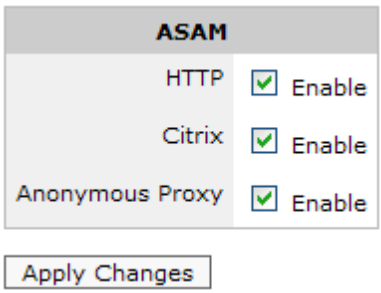


**Figure 2: The form to enable/disable the Anonymous Proxy ASAM.**

# Part

# 4 Controlling Anonymous Proxy Traffic

Once the Exinda appliance identifies traffic as an Anonymous Proxy, it is classified as the "Anonymous Proxy" application. This means that any Anonymous Proxy traffic will show up in the real-time monitoring screen and other monitoring reports as "Anonymous Proxy".

**Inbound Applications**

| Application Name | Transfer Rate (kbps) | Packet Rate (pps) | Flows | Distribution (%) |
|---|---|---|---|---|
| **Total** | **177.348** | **52** | **129** | |
| HTTP | 119.675 | 22 | 33 | |
| IKE | 26.096 | 7 | 17 | |
| HTTPS | 15.154 | 4 | 10 | |
| IMAP-SSL | 5.043 | 2 | 1 | |
| Skype | 3.448 | 4 | 36 | |
| SSH | 2.672 | 5 | 2 | |
| Anonymous Proxy | 2.184 | 2 | 7 | |
| SMTP | 1.806 | 4 | 2 | |
| ICMP | 0.530 | 1 | 4 | |
| BitTorrent | 0.506 | 1 | 3 | |
| DNS | 0.130 | 0 | 1 | |
| ExindaCom | 0.104 | 0 | 12 | |

**Outbound Applications**

| Application Name | Transfer Rate (kbps) | Packet Rate (pps) | Flows | Distribution (%) |
|---|---|---|---|---|
| **Total** | **78.713** | **57** | **131** | |
| HTTP | 41.652 | 26 | 33 | |
| IKE | 9.341 | 8 | 17 | |
| HTTPS | 5.634 | 5 | 10 | |
| ssdp | 5.268 | 1 | 2 | |
| SSH | 5.072 | 4 | 2 | |
| SMTP | 3.791 | 2 | 2 | |
| Anonymous Proxy | 2.745 | 2 | 7 | |
| Skype | 2.594 | 4 | 36 | |
| IMAP-SSL | 1.166 | 2 | 1 | |
| ExindaCom | 0.620 | 1 | 12 | |
| ICMP | 0.376 | 0 | 4 | |
| BitTorrent | 0.328 | 1 | 3 | |
| DNS | 0.105 | 0 | 1 | |

**Figure 3: The Anonymous Proxy application is shown on the real-time monitoring screen.**

It is also possible to create Optimizer Polices using the Anonymous Proxy application, like you would any other application. The Optimizer Policy configuration form below shows how to create an Optimizer Policy that will block Anonymous Proxies.

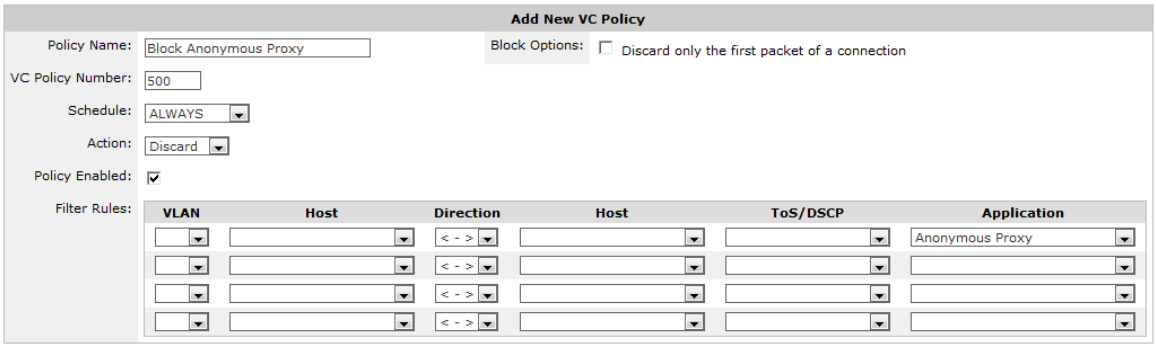



**Figure 4: Blocking Anonymous Proxies using the Optimizer.**

**Note:** By default, the Anonymous Proxy application is part of the Recreational application group. This means that any policy that references the Recreational application group will also be referencing the Anonymous Proxy application. If you want to block Anonymous Proxies, the discard policy must be above any policy that references the Recreational application group.

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