NGSecureWeb® v.2.00 Commercial Documentation

Document Version 1.0

Date: 09/09/2002

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1. Preface

Scope:

This document describes **NGSecureWeb©**: application Firewall and IDS for Web Servers.

For further information about **NGSecureWeb®**, please refer to the technical documentation:

http://www.ngsec.com/ngproducts/ngsw/docs/NGSecureWeb-technical.pdf

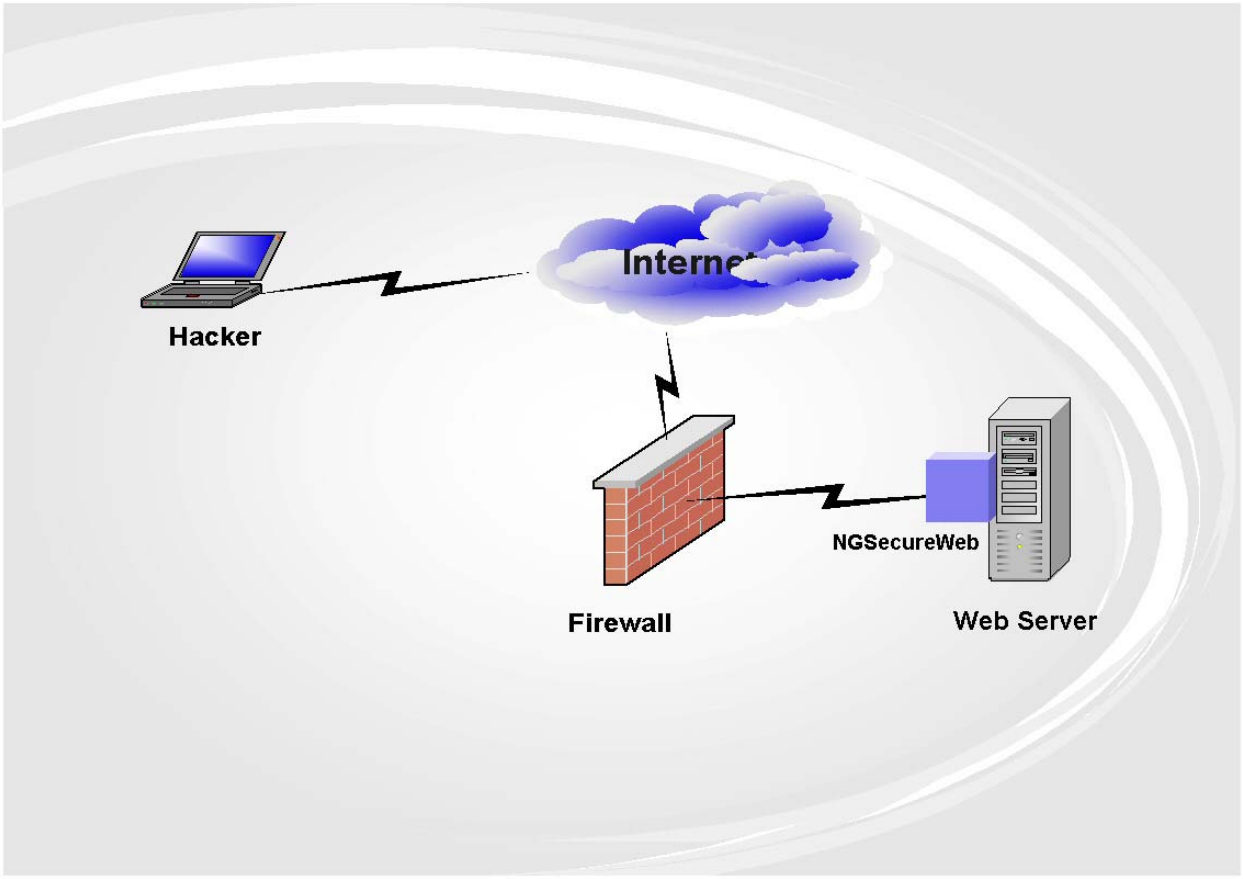
Please make sure you always have the latest version of this document by checking at:

http://www.ngsec.com/ngproducts/ngsw/docs/NGSecureWeb-commercial.pdf

2. Introduction

NGSecureWeb® is the result of the fusion of two security technologies: Firewalls and IDSs, (Intrusion Detection Systems).

NGSecureWeb® filters all traffic from clients to the HTTP-server, looking for well-known attacks to web-servers and to its third party applications. When **NGSecureWeb®** detects a possible attack (acting as an **Application IDS**), it will refuse to forward it to the web server (acting as an **Application Firewall**).



NGSecureWeb® will protect your system from attacks that your firewall has already accepted. For example, your Web Server could be vulnerable to a buffer overflow (htr overflow in Microsoft IIS), your firewall will accept the connection to the Web Server, but NGSecureWeb® will detect the attempt of exploitation, deny and log the request.

NGSecureWeb® will protect your system from both **known and unknown vulnerabilities**, since its IDS engine has been designed to look for patterns of well-known attacks. **Future security flaws** in this web-server and its applications **will not be exploitable**.

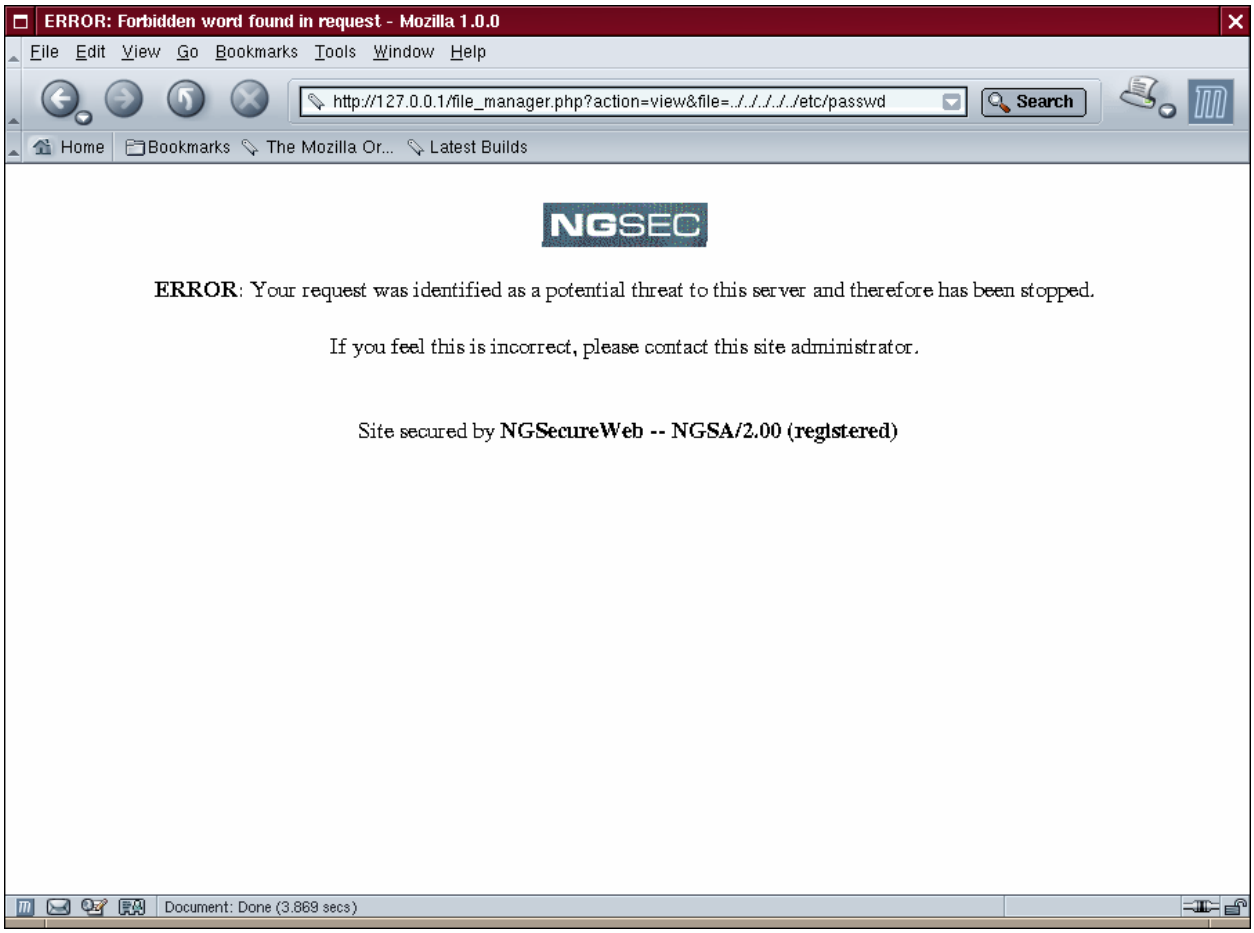
Currently, **NGSecureWeb® IDS engine** checks for the following attack patterns:

- **Directory traversal attacks:** During the past few years many CGI applications have suffered this kind of vulnerabilities, especially the ones involved in file managing. NGSecureWeb® Firewall engine will protect both for known and unknown vulnerabilities.
- **Forbidden Words:** NGSecureWeb® will search the entire request for forbidden words (defined by the Administrator). For example, it is not common to find the word "/bin/sh" in an HTTP request. NGSecureWeb® IDS engine detects these words and NGSecureWeb® Firewall engine blocks the request to the web-server.
- **Shellcode:** NGSecureWeb® IDS engine uses the newest techniques in shellcode recognition (even polymorphic ones).
- **Long Headers (buffer overflows):** NGSecureWeb® IDS engine will check the length of all HTTP headers looking for unusual values.
- **Long GET (buffer overflows):** NGSecureWeb® IDS engine will check the length of the GET arguments looking for unusual high values. These high values could be due of buffer overflow exploitation.
- **Long POST (buffer overflows):** NGSecureWeb® IDS engine will check the length of the URL arguments looking for unusual high values. These high values could be due of buffer overflow exploitation.
- **Long URL (buffer overflows):** NGSecureWeb® IDS engine will check the length of the URL looking for unusual high values. These high values could be due of buffer overflow exploitation.
- **Non printable characters**: NGSecureWeb® will filter every request looking for non-printable characters. This request could be an attempt of buffer overflow exploitation.
- **Method filtering:** NGSecureWeb® will filter and stop every request with a forbidden method. Common allowed methods are GET, HEAD and POST.

Currently **NGSecureWeb®** is available for:

- **Microsoft® Internet Information Server (IIS)**
- **Apache® HTTP Server**
- **Iplanet® / Netscape® Enterprise Server®**

Whenever **NGSecureWeb®** identifies, denies and logs a potential threat in a request, **the client will receive the following web page**:



3. Pricing

NGSecureWeb® is available either through our on-line store and by authorised partners and resellers.

- **On-line purchase:** Purchase **NGSecureWeb®** online using major credit cards. Purchased product licenses will be mailed to your supplied e-mail address.

  For on-line puchase, please visit:

  http://www.ngsec.com/ngproducts/ngsw/purchase.html

- **Partner purchase:** Purchase NGSecureWeb® through a local reseller. In order to locate a local partner please e-mail us at ngsw@ngsec.com or visit the following web page:

  http://www.ngsec.com/partners/

NGSecureWeb® pricing as of September 2002:

Product	Single* license price
NGSecureWeb® for Apache® Web Server	**249$ USD**
NGSecureWeb® for Iplanet® Web Server	**349$ USD**
NGSecureWeb® for Microsoft® IIS	**349$ USD**

(*) Discounts will be provided for quantities larger than 5 licenses.

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