

# Report on ESET NOD 32 Antivirus



**CYBER SECURITY &  
PRIVACY FOUNDATION**

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**Software:** NOD 32 Antivirus for Windows

**Description of the Software as per the website:**

AWARD-WINNING AND FAST ANTIVIRUS THAT'S EASY ON YOU

Enjoy your time online—protected with ESET NOD32 Antivirus.

Antivirus

Antispyware

Anti-Phishing

Gamer Mode

Exploit Blocker

Social Media Scanner

Autoscan of Removable Media

Advanced Memory Scanner

Portable Device Control

Cybersecurity Training

**Lab Setup:**

Oracle Virtualbox v4.3.6 r91406

**Operating System:**

Machine 1: Windows 7 32-Bit.

Machine 2: Windows XP 32-Bit. (Server)

**Processor:**

Intel(R) Core(TM) i5-4200U CPU @1.60GHz 2.30GHz

**RAM:**

512MB

## Test Criteria:

This test is specifically done for Indian Environment as it is unique as 50% of the machine are pre infected machines. Though there are awards like Virus Bulletin 100, VB 100 concentrates on a product detecting 100% of all the viruses "In The Wild" (ITW). Many of the samples which are present in India do not make to ITW List. All the products of VB 100% award are checked for only detecting the virus, most of the products fail in Indian Environment because the machine is pre infected or the anti-virus is not able to clean them. We decided to test the products with the test criteria which is unique to the Indian Environment.

We have set up the test in four levels.

**Known Malware-** Malware that is widely spread and is detect by a majority of antiviruses.

**Known Malware (Variant) -** Malware that is widely spread whose variant is been used for this test to see the level of detection of the variants.

**Unknown Malware-** Malware samples that were developed exclusively for this test hence unknown to any antivirus vendor. The antivirus will only be able to stop such attacks using heuristics.

**Pre Infected Machines-**In this test the computers were infected with known malware before the anti-virus is installed. The reason for this test is that most of Indian computers are already infect with some sort of malware before an antivirus is installed and the this test hopes to test if the antivirus is able to remove all previous infections after it is installed.

# Report (Installation and configuration)

## Installation:

General Installation with all the Terms and Agreement to be agreed. (Found to be a light weight Antivirus).

## Configuration:

General pre-built Configuration with NOD 32 Antivirus, and by enabling "Enabling Detection of Potentially Unwanted Applications" option.

# Test Details:

## Test 1: Detection of Known Virus

File Name:

20130516\_0328\_Delivery\_Information\_ID-004588020234-Z31.exe

File Size: 35328 bytes

MD5: f57ce6b2b560e8f45abb43fa72a7883b

Detection Ratio: 42/54 (Virus Total) @ 2014-06-21 12:13:38 UTC

Result Found with NOD32:

Successfully detected the .exe file as a virus and quarantined it.

- Real-time
- Offline

We also tested these known samples and all of them were detected both Real-time and Offline.

## **RAT**

### FinFisher RAT

SHA 256:2ec6814e4bad0cb03db6e241aabdc5e59661fb580bd870bdb50a39f1748b1d14

### xtreme\_rat

SHA 256:f8024cab61c1a52d66c527601450974e5d894fe4243488786b8cc17e1f20dbdb

### CyberGate

SHA 256:bfe22533c3fd67c7f3eb8c9243b866873065041de25c02bccd0e0059b44a2351

## **HTTP BOTNET**

### athena\_http

SHA 256:3b9b0f564e8d7494d0389d9c11f62a7b621a337ebf3d520c033b1426ffbb8fa6

### andromeda (2.6)

SHA 256:d8a632847964ab96592e473e335c9216a19e56705bda4d5686f51a7a55799293

### VertexNet

SHA 256:954d2d1f35681c05f172f69e1005bf721468cd89a4962d2085195132534f2a92

### IcelX Zbot (Variant of Zeus Bot)

SHA 256:be1fcba66173a9c38e6b087e241d99fa042e083492225b46087229aa8ea24707

### betabot neurevt

SHA 256:057d73b1b7088f8ef4da7b2a962df13033548172c8462f6b47ba02411e49123b

## **BITCOIN MINER**

### Bitcoin Miner

SHA 256:12dfde650154ea2c7657701c2e6c3a8904d4aa9b958737037df2c8ecd8a94724

## **POS MALWARE**

### dexter\_pos

SHA 256:cae3cdaaa1ec224843e1c3efb78505b2e0781d70502bedff5715dc0e9b561785

## Test 2: Detection of Known Keylogger

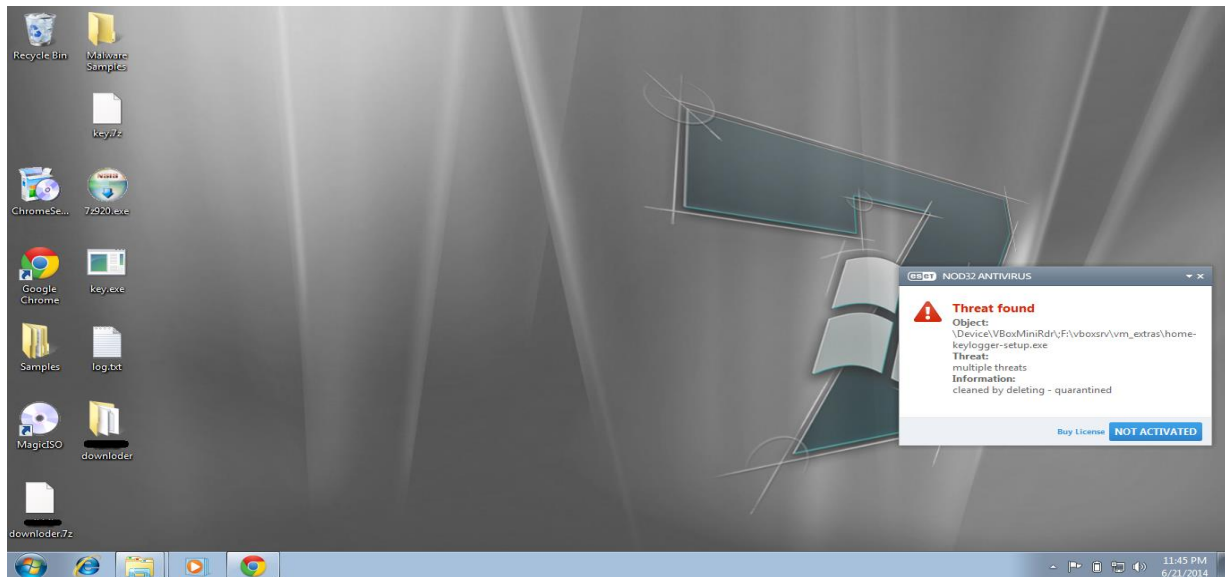
File Name: Home Keylogger.

File Size: 235 KB

MD5: d9e8ad04ba2c2075a3fd4544102cb9ac

Detection Ratio: 40 / 54 (Virus Total) @ 2014-06-16 00:32:58 UTC

### Result Found with NOD32:



Detected the file to be a potential trojan and quarantined it automatically even without running the exe file.

- Real-time
- Offline



## Test 3: Detection of Known Phishing Page:

### Website URL:

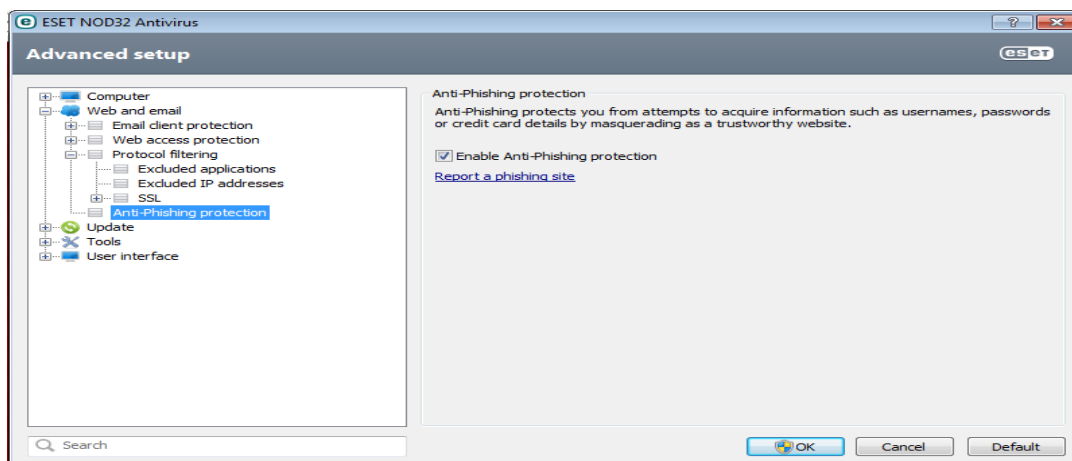
<http://www.videogameaudio.com/patches/Sichern/Sie/Ihre/Online-Banking-Konto/sparkasse.de/>

### Response Content SHA 256:

89398ceeff3ad80da551e1ec31ea44945d43c4f4a9ccd2619fec04466076fe03

**Detection Ratio:** 10 / 52 (Virus Total) @ 2014-06-22 03:19:16 UTC

### Result Found with NOD32:



Did not detect the page to be a Phishing Page.

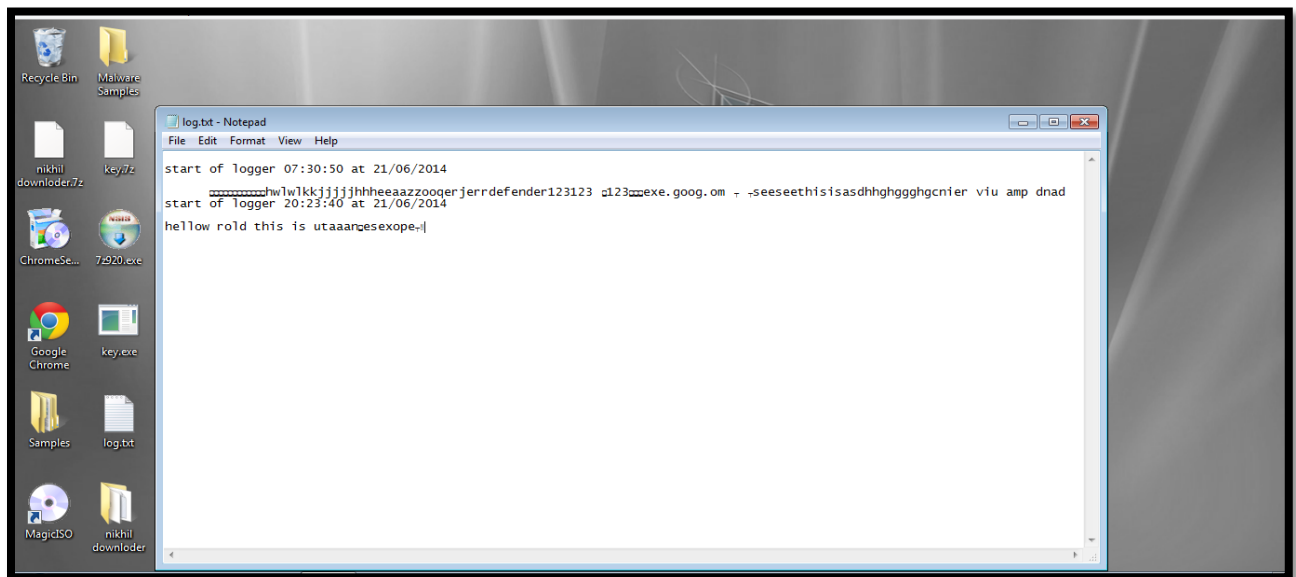
## Test 4: Detection of an unknown Keylogger

**File Name:** key.exe

**File Size:** 858KB

### **Result Found with NOD32:**

Was unsuccessful in detecting the keylogger on running the executable. Keylogger was able to run normally and capture keystrokes.



Real-time

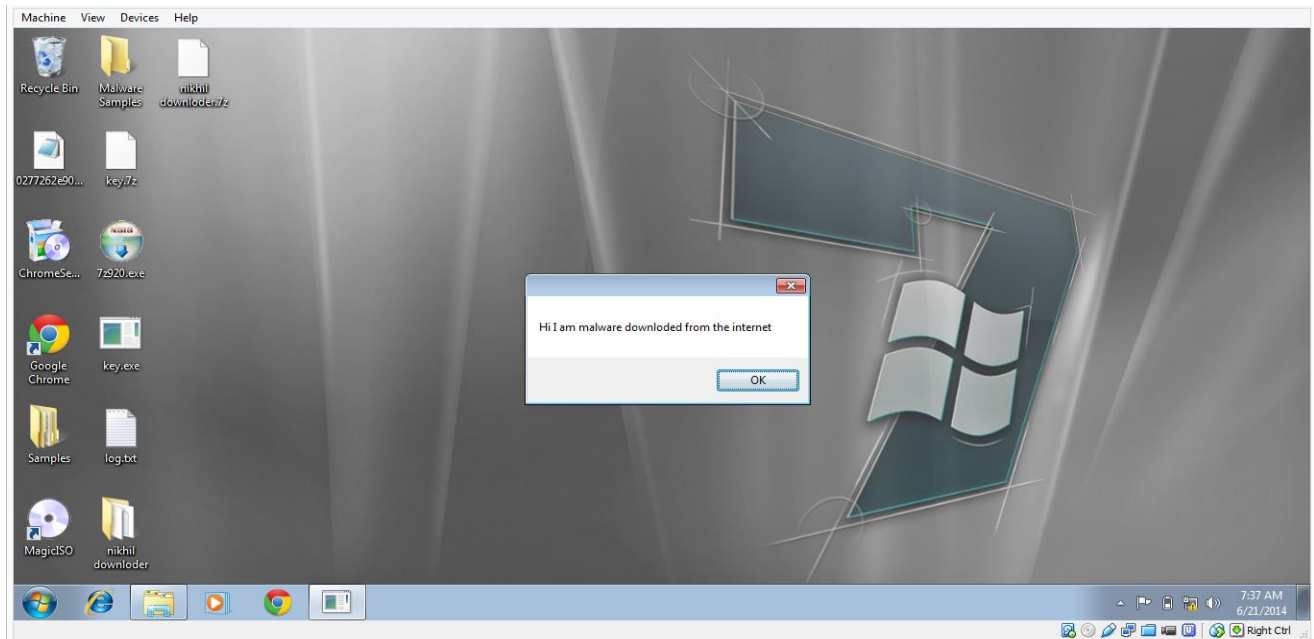
Offline

## Test 5: Detection of an unknown Malicious Downloader

**File Name:** downloader.exe

**File Size:** 846KB

**Result Found with NOD 32:**



Did not detect the downloader as Malicious. Even after the downloader connected to the remote server and was able to download the encrypted form of a test executable and decrypt it and run it.

- Real-time
- Offline

### **Pre-Infected Machines:**

The computer was infect by an assortment of malware before the anti-virus was installed .NOD32 was able to detect and remove 10/10 viruses that were installed in the system.

### **Conclusion:**

Nod32 is a light weight product and does not reduce the system performance. After our testing, we observed that ESET NOD 32 is able to detect all the known malware samples and variants. It is also good at cleaning pre infected systems. The only place it was lacking is finding “Unknown” malware. It might be because ESET wanted to reduce the false positives made by the anti-virus and hence left the heuristics sensitivity low. Out of all the products tested by Cyber Security & Privacy Foundation, we found that ESET NOD 32 to be the Best Suited Antivirus for the Indian Environment.

The Overall Rating that we give ESET NOD-32 is:

**“9/10”**