

ANALYSIS OF ANTIVIRUSES USED IN PERSONAL COMPUTERS

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ANNOTATION

The purpose of the study was to study the methods of data protection using antivirus software used in modern personal computers, the failure of some parts of the computer, software errors and misconduct of the PC operator, the principles of protection against computer viruses. to do The article analyzes antivirus programs. The classification, features, working principles of anti-virus programs are described and several anti-virus programs are compared.

Keywords: Antivirus, detectors, scanners, Eset NOD32, Kaspersky, Symantec Norton, DoctorWeb.

The first computer virus for personal computers was called Brain. The virus, which runs on the MS-DOS operating system, was the first virus to cause a global epidemic in 1986.

Antivirus software is a computer program that tries to find, delete, or remove malware. This type of software is so named because the first antivirus programs were created specifically to fight computer viruses. But most modern antivirus programs are designed to combat a wide range of threats, including worms, phishing attacks, rootkits, Trojans, and other malware.

Antivirus programs are characterized by the use of two methods in the fight against malware:

1. Scan (scan) files for specific viruses by comparing definitions to a dictionary of viruses;
2. Detect suspicious performance of any computer program that may indicate an infection. Such analysis may include data collection, port scanning, and other methods.

Antivirus programs can be divided into six main groups: filters, detectors, checkers, doctors, vaccinators, and scabbers.

Eset Nod32

NOD32 is one of the fastest antiviruses whose performance does not affect the performance of the system. ESET NOD32 Business Edition includes a centralized system to protect servers from Trojans, adware viruses, worms and many other threats. The product also includes the ESET Remote Administrator application, which is used to manage corporate networks. ESET NOD32 Business Edition Smart Security is a tool for comprehensive protection of servers and workstations in large enterprises and offices.

Symantec Norton Antivirus

Developed by Symantec, Norton AntiVirus is one of the most popular antivirus products in the world. This program automatically removes viruses, internet worms and Trojan components without interfering with the user's work. Norton™ A new feature of Internet worm protection allows you to block some complex and dangerous worms before entering your computer system. In addition, Norton AntiVirus can detect spyware and other non-viral threats in nature. Mostly in English.

Kaspersky antivirus.

Installing and using a personal Kaspersky antivirus will not cause you any difficulties. Installing the program is very simple due to the ability to choose one of three levels of protection: "maximum protection", "recommended protection" and "maximum speed". Thanks to its convenient interface, this program becomes the

best helper even for inexperienced computer users. Kaspersky Anti-Virus Personal uses modern anti-virus protection technology based on the principles of second-generation heuristic analysis. Two levels of mail protection. The program is an undisputed leader in the accuracy of inspection of suspicious objects. Kaspersky Anti-Virus detects viruses in more than 700 archived and packaged files, as well as disinfects files in ZIP, ARJ, CAB and RAR formats. Updated every hour. 24/7 technical support.

Doctor Web for Windows.

Dr.Web32 for Win32 is available in two versions: with a graphical interface (DrWeb32W) and without (DrWebWCL). Both options support the same command line settings (buttons). But for the graphical interface option, all the settings can also be done from the dialog panel, which is usually much more convenient. However, the option without a graphical interface requires several small resources. Both versions of the program use the same configuration file and the same group of settings in that file. Therefore, both options can be used in turn by setting the desired profiles in the most convenient way. Part of the antivirus is the antivirus monitor, which also scans all files called "emails".

Avast

It is a comprehensive software tool for detecting and removing malware. Avast has the ability to scan your computer in several modes: full scan, quick scan, and scan a separate folder. Scanning is also possible when the computer starts up. This process takes a long time, but is the most efficient.

Antivirus logo	name	Productivity	Take up space in random access memory
	Kaspersky	94%	160-300 mb
	DoctorWeb	99.5%	450-550 mb
	Avast	27%	100-200 mb
	360 Total Security	99.9%	60-200 mb

	Eset Nod 32	12%	30-150 mb
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Depending on the characteristics of the above programs, the following conclusions can be drawn:

Provide your computer with modern antivirus software to protect your computer from viruses and securely store information;

Always scan media for viruses before use;

Always keep a copy of your valuable information as an archive file;

Login to the computer with a password;

Use of licensed software and non-use of stolen software;

Check viruses for computer programs;

Extensive use of antivirus software;

Periodically, computers should be scanned for viruses using antivirus software.

Antivirus software is improving day by day. Their working principles and mechanisms are being updated. "Which antivirus should I use?" There are different answers to this question. Depending on the size and structure of the computer, this may be a good idea.

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