TECHNIQUES FOR ANALYZING OF INFORMATION SYSTEM VULNERABILITIES

K.A. Nguyen

Educational Establishment "Belarusian State University of Informatics and Radioelectronics", Minsk, Belarus

Techniques for analyzing the vulnerabilities of information systems based on the use of the OpenVAS vulnerability scanner have been developed. The first of the developed technique includes the following steps.

Step. 1. Set the following parameters of the virtual machine to be installed in VirtualBox: operating system – Other Linux, RAM – 5120 MB, processors – 2, video memory – 9 MB, media – downloadable OVA file, network – network bridge.

Step 2. Complete the virtual machine installation process.

Step 3. Get access to the resources of the installed virtual machine using the following credentials: login – admin, password – admin.

Step 4 Create a new web administrator account.

Step 5. Enter the IP address of the device web interface.

Step 6 Log in with the web administrator account created during the installation of the virtual machine.

The second of the developed technique includes the following steps.

Step 1. Completely upgrade your Kali Linux system by using the apt update && apt upgrade -y command.

Step 2. Run the following command to download OpenVAS: apt install openvas.

Step 3. Run the OpenVAS installer by running the following command: gvm-setup.

Step 4. Generate a password for the first login.

Step 5. Check the OpenVAS settings by using the following command: gvm-check-setup.

Step 6. Generate a new administrator password.

Step 7. Open the web interface: http://localhost:9293.

Step 8. Log in using the following credentials: username – admin, password – the new administrator password generated during installation.