

Utility name:  
AUTHEXEC.EXE version 2.1.0  
SHA256GEN.EXE version 1.0.0

Purpose:  
Provides a self-contained minimal HTTP server that executes a command after a user has successfully authenticated through a web-based form.

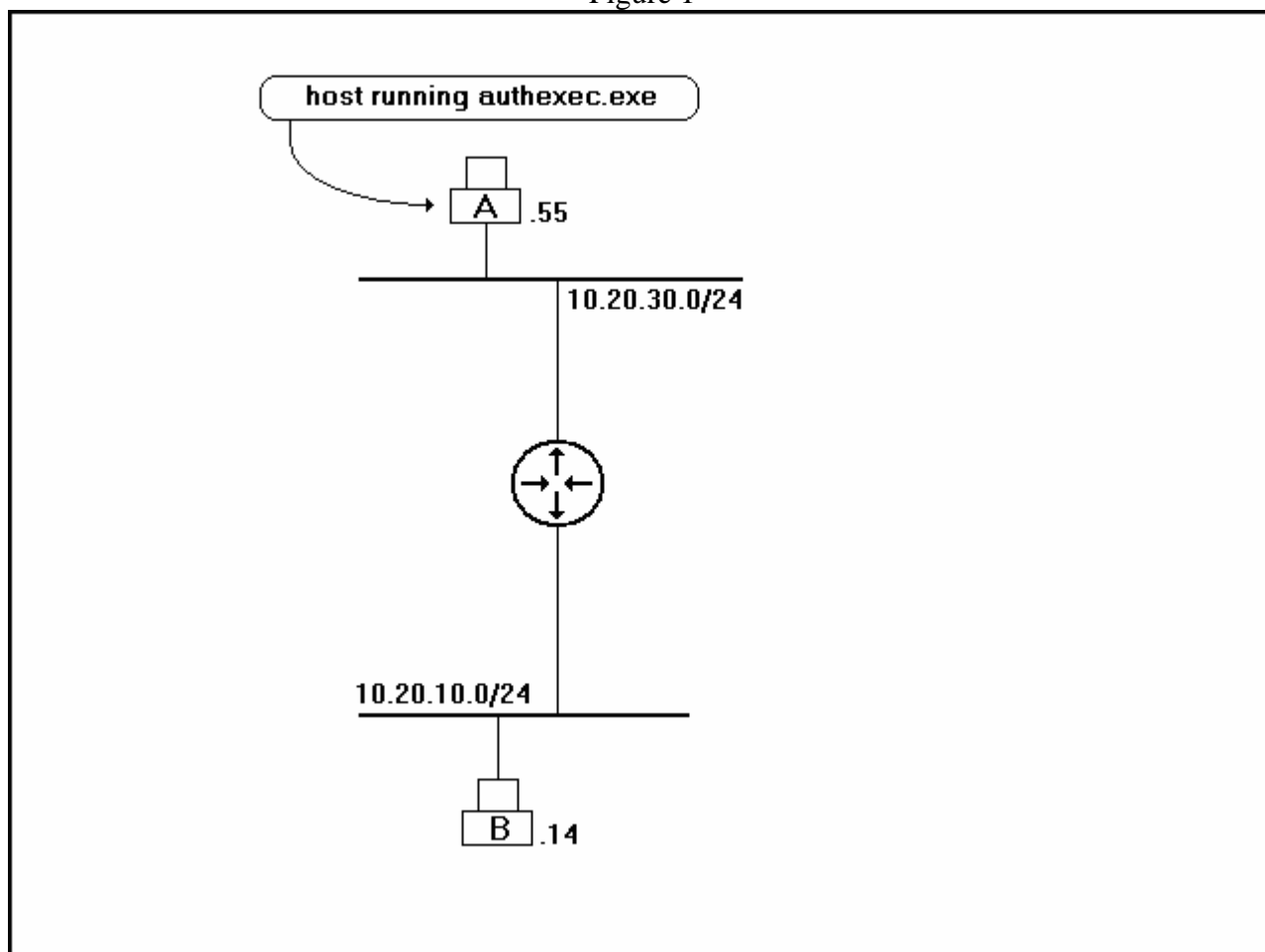
Author:  
Bill Chaison, BC.Soft@yahoo.com, <http://chaison.freewebsite.org>

Development environment:  
MS Visual C++ 6.0, console application, Winsock 2, multithreaded, 2311 lines of code.

License and terms of use:  
This program is provided as freeware. It may be used by any individual or organization for any lawful purpose free of charge. This program may not be resold, nor may it be bundled or repackaged with any application or compilation that will be exchanged for profit. This program does not contain malicious code or surreptitious features. This program is made available as-is and users of it are not entitled to product support. The author will not be held liable for any damages resulting from the use of this program.

Example applications:  
Remote program execution, web-based remote control and automation, etc.

Figure 1



The scenario in figure 1 illustrates how host (B) may remotely execute a program (launch an executable, run a script, start or stop a service, etc.) on host (A). The interface to the instance of authexec.exe running on host (A) is HTTP and may be called from a JavaScript-enabled web browser running on host (B). Host (B) requests the authentication page from host (A). Host (A) then serves the page to host (B). The user at host (B) then submits his/her credentials along with a command selection that has been previously configured on the server. If the authentication is successful, host (A) will execute the command that was selected by the user using the security context (privilege level) under which authexec.exe is running. The authentication mechanism uses SHA-256 and a 32 character session-specific challenge-response token. The supplemental file sha256gen.exe can be used to generate the SHA-256 hash of a password (access code) required by authexec.exe in each profile section of the configuration file.

To get help with the command line arguments, open a shell and execute the program without parameters. The default configuration file can be generated from a command prompt in the present working directory by executing “authexec gendefcfg”. This sample configuration file contains verbose instructions on how to configure and use this utility.