AhnLab
HackShield Pro
for Online Game

Update Guide

Contents

1 Introduce HackShield Update.

❖ Introduce

Using HackShield Update function, You can update the HackShield(It is for game security)Product easily.
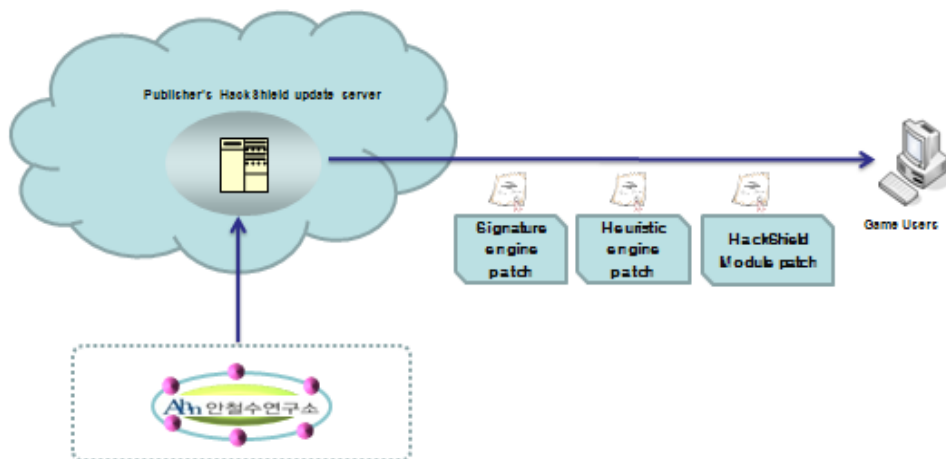
❖ Feature

You don't need to develop game studio for update and it is more fast.

The flow rare about Workload for game developer is decreased.

1. Component of HackShield

❖ Component of System

❖ The files for Automatic update

- Signature Engine file.
- Heuristic Engine file.
- HackShield module.

❖ Process for Automatic update
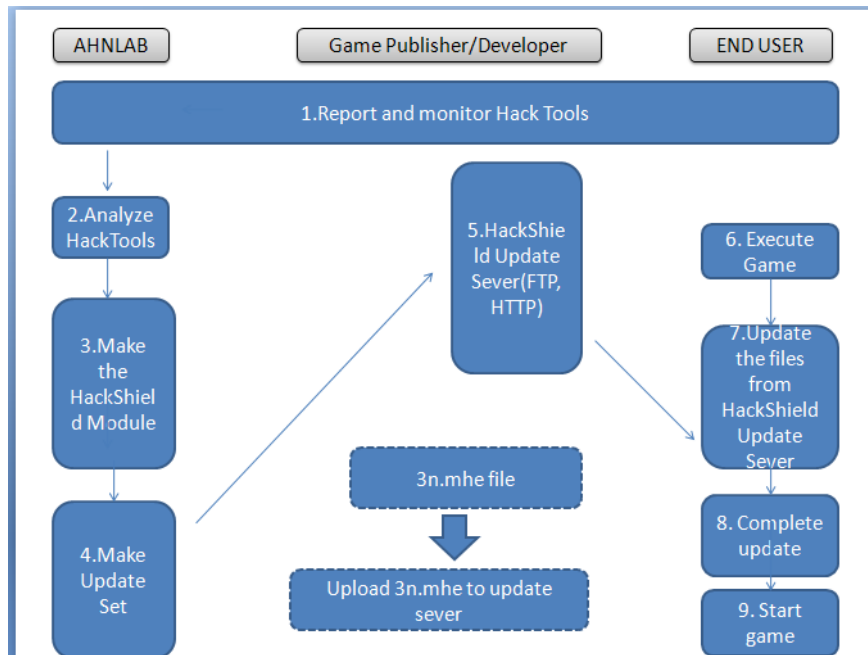
2   PREFER FOR APPLICATION.

2.1   PREFER FOR SEVER

2.1.1 HARDWARE/SOFTWARE

* (Sever)minimum specifications and recommend specifications for Automatic update.

2.1.1.1 (Sever)The Minimum specifications for Automatic update

	Item	Explain in detail
Hardware	CPU	Intel Pentium IV 2.4
	Memory	1G
	HDD	40G
Software	OS	Window 2000 Server
ETC	Protocol (Necessity)	FTP, HTTP
	Port	Supports all of ports

2.1.1.2 (Sever)The Minimum specifications for Automatic update

	Item	Explain in detail
Hardware	CPU	Over Intel Xeon 3.2 Dual
	Memory	2G
	HDD	Over 40G
Software	OS	Window 20003 Server
ETC	Protocol (Necessity)	FTP, HTTP
	Port	Supports all of ports

2.2 COMPONENT FOR FTP/HTTP SEVER AND ISSUE ACCOUNTS

You should organize IIS to access the HTTP/FTP Sever. Please refer to the following steps for setting up IIS

2.1.1 SET UP FOR IIS SEVER

[Windows]-[Start]-[Setup]-[Add Or Remove Program]- [Add or Remove a component for Windows]

Set up Internet Information Server(IIS)
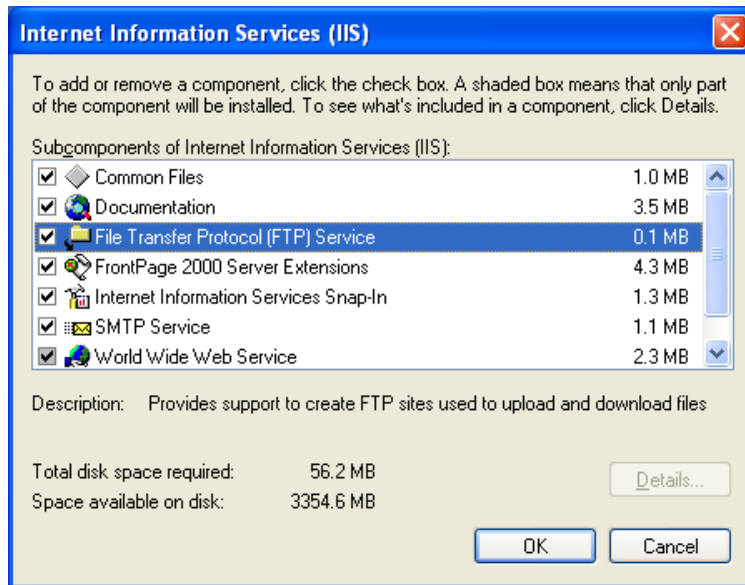
Set up the File Transfer Protocol(FTP) Service

2.1.2 STANDARD SETUP FOR FTP

Please refer to the following steps

[Windows]-[Start]-[Setup]-[Administrator tool]-[Internet Information Services]

2.1.3 ISSUE ACCOUNTS

Game publisher or developer should give the information(URL and ID/PW) to access FTP for AhnLab
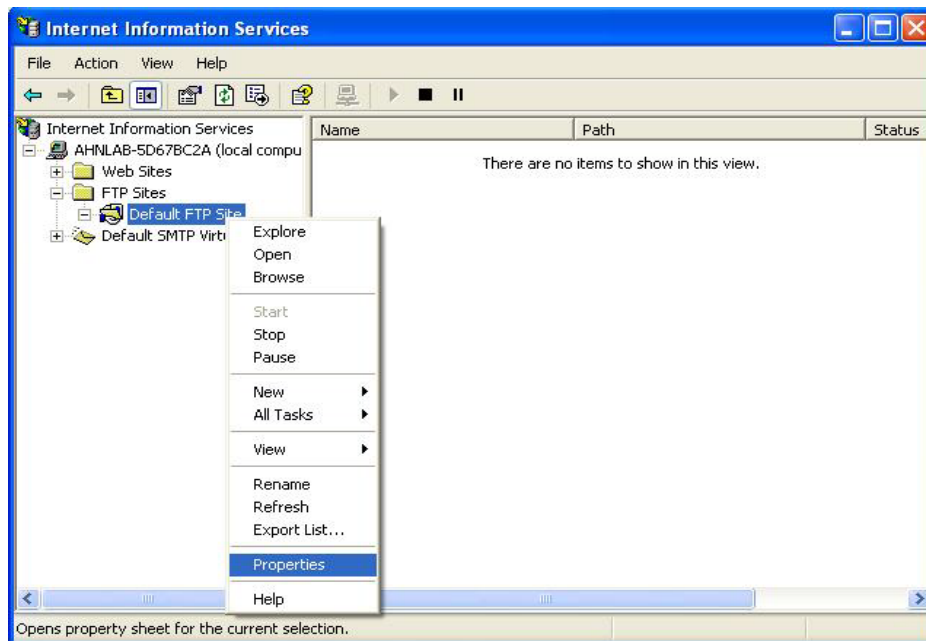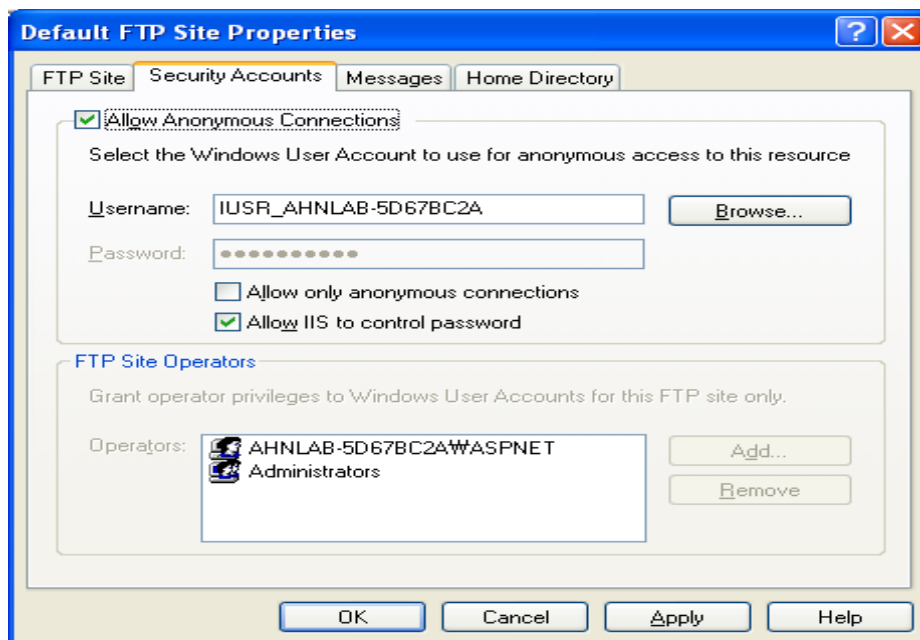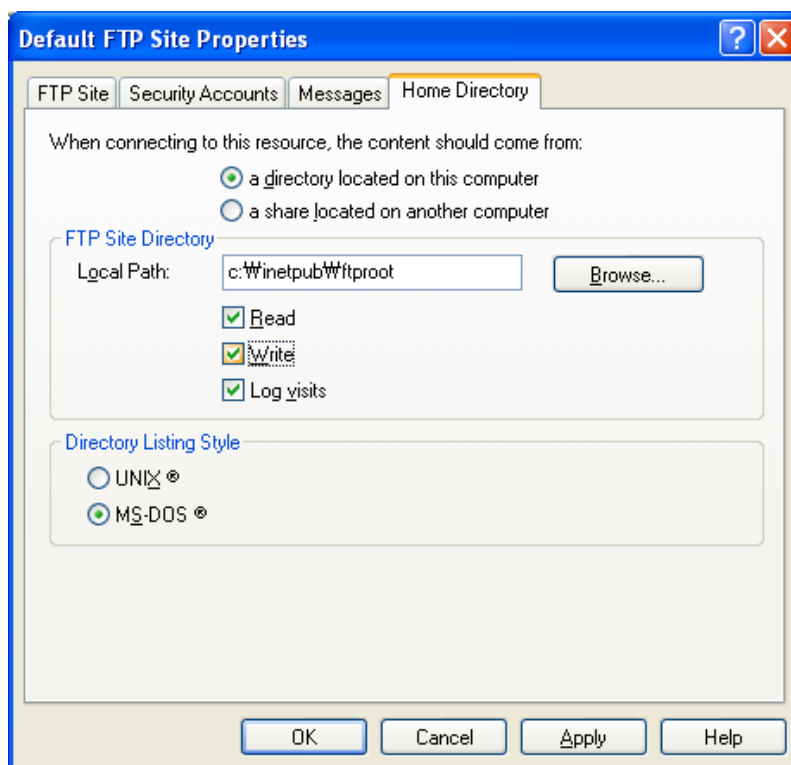
2.3 COMPONENT UPDATE SET

Please refer to the following information.

［contents files to distribute for game client］

File name	Explain in detail
AhnUpCtl. dll	Update DLL
AhnUpGS.dll	Update DLL
HSInst.dll	GUI DLL
HSUpdate.env	Update configuration file
HSUpdate.exe	Execute file for update
V3Hunt.dll	Update DLL
V3InetGS.dll	Update DLL

［necessary files for HackShield Automatic update sever form game company］

File Organization					
PatchSet	patch	39	ahn.id		
			ahn.ui		
			ahn.uic−		
			ahnrpt.ex−		
			ahnupctl.dl−		
			ahnupgs.dl−		
			Bldinfo.in−		
			ehsvc.dl−		
			Hshield.da−		
			hsinst.dl−		
			Hslogmgr.ex−		
			hsupdate.ex−		
			v3hunt.dl−		
			v3inetgs.dl−		
	win	e	b	b_echo_sl	asc_com.dl−
					asc_dh.dl−
					asc_fse.dl−
					asc_intg.dl−
					asc_mmgr.dl−
					asc_unp.dl−
					fse_base.dl−
					fse_fact.dl−
					fse_pe.dl−
					gfs_base.dl−
					gfs_fact.dl−
					gfs_file.dl−
					gfs_mem.dl−
					gfs_os.dl−
					gfs_proc.dl−
					gfs_util.dl−
				b_sign_hs	0asc.sc−
					0sccure.sc−
					0sgame.sc−
					0spe3f.sc−
					moduler.sc−
					option.sc−

		V3_echo_hs	V3pro32s.dl−
		hs_heuri stic	3n.mh−
	ahn.ahc		
	ahni2.id		
	Ahn.ui		
	Ahn.uic		
	Ahni2.dll		
	ahnupctl.dll		
	autoup.exe		
	v3bz32.dll		

[Necessary file for game source folder]

File name	Set up folder	Explain in detail
HSUPChk.lib	[Folder for game source]	Library file
HSUPChk.h	[Folder for game source]	Heder file

[caution] The project files of game client using HackShield Update should include HSUPChk.lib, HSUPChk.h which are included in the library or contents of source code.

Hsupdate.env file.

<Function>

This program is used to create HSUpdate.env file.

You can select the FTP/HTTP for update sever and it support the multiplex URL.

Creates HSUpdate.env file using [HackShield SDK]₩Bin₩Win₩x86₩Util₩HSUpSetEnv.exe.

HsUpSetEnv tool is formed of two tabs, which as [General information] and [Extended information]. They can be used as follows:

Usage

Execute [HackShield SDK]₩Bin₩Win₩x86₩Util₩HSUpSetEnv.exe file.

Caution

HSUpSetEnv.exe is a tool which creates an update configuration file. You are not allowed to distribute this tool.

2.1.1 SETUP HSUPDATE.ENV FILE

FIG. 9-8 HSUpSetEnv.exe

① Recommend that you select HTTP. Select HTTP or FTP depending on the protocol that the update server will use.

② Input the update server name.

③ Input the server address. Specify the folder where patch set is saved.

④ Input the previously set port number.

⑤ Set account information for the FTP. Otherwise, anonymous connection will be made.

⑥ Set the number of retry attempts when update is failed. When access of the entire list has failed, attempts will be made according to the set number.

⑦ Add the server to the server list by clicking on the **Add** button. In case multiple update servers are needed, repeat the above procedures.

⑧ Delete a server on the server list by clicking **Delete** button.

⑨ Exclude HackShield update files when downloading the patch.

When this option is selected, the following files will not be installed.
(HackShield update-related files: „ahnupctl.dll", „ahnupgs.dll", „hsinst.dll", „hsupdate.exe", „v3hunt.dll", „v3inetgs.dll")Enter the Game Code. It is valid only when _AhnHS_HSUpdateEx function is used. You do not need to enter when using _AhnHS_HSUpdate.

⑩ Recommend that you input the game code. Select this button if you do not want to display the update server name on the bottom right of the update image (HSUPDATE.JPG) used in the window that shows the update progress.

⑪ Select this button to change the position of the update image (HSUPDATE.JPG) used in the window that shows the update progress. If you do not change the position, it will be displayed on the bottom right.

⑫ If you select to change the position of the update image (HSUPDATE.JPG) used in the window that shows the update progress, it will be activated and you may change the position.

⑬ When using HackShield Monitor, enter the monitoring IP / Port. (Only enter the IP / Port. To use the monitoring feature, you must call the _AhnHS_StartMonitor function.)

⑭ Click the **Save** button, and when the HSUpdate.env file is created normally, the following message will appear.
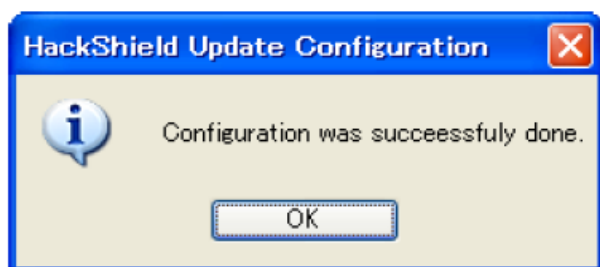
When the settings are complete, click **Close** to terminate the tool.

3   APPLY HACKSHIELD UPDATE(MANAGEMENT

SYSTEM)

3.1 Upload update set

❖ **AhnLab delivers update set to Publisher then, the Publisher uploads the update set to update sever. Game user can download the uploaded update set automatically.**

4 The way to test after you apply the HackShield Update.

4.1 The way to check the service about FTP Sever and Ports

❖ Access the patch set of FTP Sever from IE (Explorer)
❖ If you can see the contents of files, it means you apply the HackShield Update correctly.
❖ If it's not, you should check the network state
❖ Please refer to the contents about update set(3.3) for file lists
 ->The file lists can be changed when you update.

4.2 The way to check the service about HTTP Sever and Ports.

❖ Access the patch set of HTTP Sever from IE (Explorer)
 -> Please input the path to open the ahn.ui
❖ If you can see the contents of files, it means you apply the HackShield Update correctly.
❖ If it's not, you should check the network state
❖ Please refer to the contents about update set(3.3) for file lists
 ->The file lists can be changed when you update.

4.3 The way to check network problems.

❖ Please check the network for DNS sever and gateway.

5 The way to solve the problems.

5.1 Primary Counterplan

Please Correct the hshield.log, supdate.log and HSUpChk.log and deliver it to Support team for HShield. The

support team for HShield analyzes the files then, delivers the results to the game company.

5.2 Secondery Counterplan

We can correct the system information for users by AhnReport program. Also, we check problems and contact user using AhnReport.

If some products have influenced to products from AhnLab, you can correct information by AhnReport. Corrected information is used for just detecting new type of virus and solving the problems related AhnLab's products.

The corrected information by AhnReport will not leak without user's permission.
[References]

[The way to use the AhnReport]
> [file path]
> Game folder₩hackshield₩ or
> Game folder₩hshield
> [file name]
> AhnRpt.exe

> 1. Execute the ahnrpt.exe

> 2. Select the Report the error

> 3. Input the information about error, Select the [Save] button and input the name for zip.

> 4. Please send the zip file to AhnLab.

6 ETC

6.1 The File size for HackShield Update

Contents	Explain in detail
Update Size (always)	2K
Update Size (MIN)	200KB
Update Size (MAX)	5.69MB

[Definition]
    a. Update Size (always): To check whether you update HackShield module
    b. Update Size (MIN): Update the HackShield engine(3n.mhe)
    c. Update Size (MAX): Update the HackShield Module
            > **The update size(MIN/MAX) will be bigger and bigger.**

6.2 The number of users to access Sever

- The minimum specification of HackShield automatic sever – 1,000 users/ 1 Sever
- The recommendation specification of HackShield automatic sever – 10,000 users /1 Sever

* Suppose game company uses 1G network line with simultaneous 1000 logins

(Update Size (MIN)) * (simultaneous logins)

100K* 1,000 = 100,000 = You can download it within 1second

[References]

If you fail to update HackShield because of the update sever and network problems, the game can be stopped by policy for game company