Windows Firewall Configuration - Truly Block EVERYTHING...

It seems as much as we look into changing, tweaking, etc, there's always more crap phoning home.

I was working on a script, like 1000 others, to block via blacklist, but it has proven futile so far.

So, I'm going to take the approach I use with my browser: Block EVERYTHING by Default unless specified.

We're going to use Windows Firewall and some preconfigured registry, and WFC for our little setup....

Here's the base registry (Blocks Everything by Default, even Windows Updates):

Allow Only Core Networking + Block Windows Update

Spoiler: Hide

Code:	
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Allow Only Core Networking + Allow Windows Update*

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What we've done here, is removed all preset rules to ensure nothing is pre-whitelisted, except the most core guts of Networking. Blocking those = nothing will work at all, totally broken. You chose whether to accept/block Windows Updates.

*IMPORTANT: Windows Update IPs may vary from person or region. Those were what I needed for it to work.

Now, we're going to use <u>Windows Firewall Control</u> for easier management. Configure exactly as depicted in the screenshots...

1. Profiles:

Windows Firewal	Control		-		×
WINDOWS FIREWA	LL CONTROL 4				凸
g]] Profiles	Fittering level spen which connection	ifies which connects should be allower	rions should be	blocked a	nd
	High Filtering All outbound and inb	ound connections a	ire blocked. Thi	s profile bi	pcks
Rules	Medium Filtering (re Outbound connection programs with an allo	commended) ns that do not mate ow rule are allowed	n a rule are blo	cked. Only	the
Topis	Outbound connection	ns that do not mate	n a rule are allo	wed, Only	the
About	No Filtering Windows Firewall is t have another firewall Specify the profile lower filtering pro	umed off. Avoid us Irunning. that will be revert file for installing/u	ing this setting a ed in case it is s pdating purpos	unless you witched to es	a
	Automaticaliy set 1	vledium Flitering	- after 1	minutes	8
MANAGE RULES			2		

lower/deactivate Firewall, but make sure it comes back up.

2. Notifications

Windows Firewa	Control – 🗆 🗙
WINDOWS FIREWA	LL CONTROL 4
Profiles	Notification level specifies which blocked outbound connections should be displayed to the user
Notifications	High Display notifications for all blocked outbound connections, including the system ones, generated by the connection attempts of sychostlexe and System.
Rules	Medium (recommended) Display notifications for all blocked outbound connections, but ignore and do not display the notifications generated by sychost exe and System.
About	Low Automatically allow digitally signed programs with a valid signature to access the network and display notifications only for unsigned programs. This applies if no rule is defined.
	Disabled Do not display notifications.
	Automatically close a notification in 30 seconds
	Custom timeout for temporary rules is 30 minutes
	Play a sound when a new notification is generated
	Construction states
	Advanced notifications settings
	Use allow rules when searching for matching rules. Recommended for compatibility with other security programs if duplicate notifications are displayed.
	Use generic block rules when searching for matching rules. If a block rule that apply to sill programs matches the blocked connection, the notifications will not be displayed.
	Use disabled rules when searching for matching rules. If a matching disabled rule is found the notifications will not be displayed.
	Reset Gefault advanced settings
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3.Options

dows firewal	Control	-		×
NDOWS FIREWA	L CONTROL 4			B
Profiles	Specify below the options to apply for all use local computer	er accoun	ts from t	he
Notifications	Shell Integration Integrate the program into the context menu of	the execu	itable file	HS.
Options Rules	Start automatically at user logon When using Fast User Switching feature, this opt	tion appli	es for the	e 1
Tools	Secure rules Automatically delete unauthorized rules created	by progr	ems othe	H.
About	Automatically set High Filtering profile on system	n shut do	wn.	
	Global HotKeys			
	Global HotKeys are keyboard shortcuts that you can running application.	use from	within a	ny
	Main Panel			
	None			
	Pulse Panal			
	None			
	Define below the appearance of the program color combination	by settin	ng any Ri	38
	Red	- 10	2	
	Green	- 1	3	
	Blue D	1	2	
	Hex Color #000000			
	the user settings			
	low out alies attings from Mir			
	Export user settings to a file			

Easy Right Click to Whitelist, Disable anything else from tampering with rules, and autostart WFC. (I

didn't use Secure Boot, as it would kill my TeamViewer on reboot, as you have to manually downgrade to Medium from High every restart if you enable this).

4. Rules

Windows Firewal	Control – 🗆 X
WINDOWS PREWA	LL CONTROL 4
]a]] Profiles	Specify the direction for which a new rule is applied when creating a new rule:
Notifications	Outbound (recommended) By default create only outbound rules when creating new rules to:
	allow or block applications. Inbound Re default create only incrude tiles. Use this conton with caution
Rules	Inbound access is usually required for server applications.
Tools	By default create both types of rules. Not recommended.
1 About	Specify the locations for which a new rule is applied when creating a new rule:
	Domain
	Private
	Public .
	impart, expart or restore firewall rules
	impurs Winterward cures from a for-
	Expect Winimovia Firewall rules to a file
	Restrict Mindows, File-all defeat as collections
	Kestore windowc reference control /recommended ruler
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WINDOWS FIREWA	LE CONTROL 4			8	
]0]] Profiles	Use the shortcuts below to launch various s	ystem uti ilezes av	ilities. Th	ese	
Notifications	Windows Fireway with Advanced Recurity				
	di intowi Tirovali Centro Panel aquiet				
14 Opport	Events lawre				
Pules	Reporter Manual				
Tools	Specify below the URL services used for vari	ious onlin	ne verifica	stions	
	URL to check an IP address reputation				
About	http://www.ipvoid.com/scan/(0)/	Ŧ			
	URL to check a file based on the SHA256 hash of th	efile			
	https://www.virustotal.com/file/(0)/analysis/				
	URL to start a WHOIS guery	-			
	ntto //who.is/whois-io/io-address/(0)	*			
	URL to read more about a specific port				
	have former and some first 100 spart	-			

6. About

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WINDOWS FIREWA	LL CONTROL 4		8
WINDOWS REEWA	Image: Contract 4 Windows Firewall Control 4.5.5.0 Cocyright © 2015 by Alexandru Dicu Published by BiniSott org Cock now if a new section is available Image: Check for updates Use proxy configuration Product Activated Thank you for your support		

Whitelisting Programs:

Spoiler: Hide

Now, find apps that you want to use the internet, right click them, and whitelist them: 4402403.130

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Notes:

1. Be warned that this setup is for someone with the time and knowledge to put up with apps, network services, the entire internet, etc, not working, and to figure out what is needed to whitelist. There is a log feature in WFC that will help you view connections, but it's mostly trial and error if you're trying to unblock something like Windows Update (in case by registry above doesn't work for you).

Don't blindly enable WFC Recommended Rules. It allows the Windows Store to talk to the internet, in case you don't want that.

I tested with a fully activated WFC. You will not have Notification Levels to control if not activated.
 This may cause lower level services and networking to fail (even LAN Drives). It may require more effort

than simply right click to whitelist to handle said services.

5. Some apps may have multiple exe files that need whitelisted to fully function. You'll likely only need to worry about EXE files.

6. Unless Microsoft compromises their own Firewall Software (which is terrible as it should do what it is told, and the Pro and up version are supposed to be Enterprise grade (*cough*), this should kill all possibilities for talking to MS, except those you knowingly (or unknowingly, with too permissive whitelisting) allow via WFC.

Last edited by CODYQX4; 24 Aug 2015 at 22:25.

Microsoft Toolkit - Official KMS Solution for Microsoft Products with License Backup and much more Windows Firewall Configuration - Truly Block EVERYTHING

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