Windows 10 & Server 2016 Checklist

Take n	otes on	the README file
Answer the Forensics Questions (Look at how-to's section at end of document)		
Chang	e securi	ty policies
	Open I	<u>local Security Policy:</u> Click the Start button, type "Secpol" on the search bar, click
	enter, &	& select "Yes" if prompted. Local Security Policy will open.
	Edit Pa	ssword Policies:
		Select "Account Policies" on the left & select "Password Policy".
		Select "Enforce Password History" & choose 5 passwords.
		Select "Maximum Password age" & choose 30 days.
		Select "Minimum password age" & choose 5 days.
		Select "Minimum Password Length" & choose 10 characters.
		Select "Password must meet complexity requirements" & enable it.
		Select "Store passwords using reversible encryption" & disable it.
		count Lockout Policies:
		Select "Account Lockout Policy" on the left.
		Select "Account lockout threshold" & choose 5 invalid logon attempts.
		Select "Account lockout duration" & choose 30 minutes (It could already be set).
		Select "Reset account lockout counter after" & choose 30 minutes (It could
_		already be set).
		udit Policies
		Select "Local Policies" on the left & select "Audit Policy".
		For each policy, check both "Success" & "Failure" in "Audit these attempts:".
		Next, in "Local Policies" on the left, select "Security Options".
		Scroll all the way down to where it says "User Account Control: Switch to the
	T 11. II	secure desktop when prompting for elevation". Select this & choose "Enabled".
		ser Rights Assignment:
		Select "Local Policies" on the left & select "User Rights Assignment".
	_	Select "Access Credential Manager as a trusted caller", & remove any users.
	u	Select "Access this computer from the network", & make sure there is only
		"Administrators, Backup Operators, Users".
		Select "Act as part of the operating system", & remove any users. Select "Adjust memory quotas for a process", & remove make sure there is only
	_	"Administrators, LOCAL SERVICE, NETWORK SERVICE".
		Select "Backup files & directories", & make sure there is only "Administrators".
	٥	Select "Change the system time", & make sure there is only "Administrators,
	_	LOCAL SERVICE"
		Select "Change the time zone", & make sure there is only "Administrators,
	_	LOCAL SERVICE, Users".
		Select "Create a pagefile", & make sure there is only "Administrators".
		Select "Create a token object", & remove any users.

	Select "Create global objects", & make sure there is only "Administrators,
	LOCAL SERVICE, NETWORK SERVICE, SERVICE".
	Select "Create permanent shared objects", & remove any user accounts.
	Select "Debug programs", & make sure there is only "Administrators".
u	Select "Deny access to this computer from the network", & make sure there is only "Guest".
	Select "Deny log on a batch job", & make sure there is only "Guest".
	Select "Deny log on as a service", & make sure there is only "Guest".
	Select "Deny log on locally", & make sure there is only "Guest".
	Select "Enable computer & user accounts to be trusted for delegation", & remove
	any users.
	Select "Force shutdown from a remote system", & make sure there is only
	"Administrators".
	Select "Generate security audits", & make sure there is only "LOCAL SERVICE, NETWORK SERVICE".
	Select "Impersonate a client after authentication", & make sure there is only
	"Administrators, LOCAL SERVICE, NETWORK SERVICE, SERVICE".
	sure there is only "Administrators".
	Select "Lock pages in memory", & remove any users.
	Select "Log on as a batch job", & make sure there is only "Administrators".
	Select "Log on as a service", & remove any users.
	Select "Manage auditing & security log", & make sure there is only
	"Administrators".
	Select "Modify an object label", & remove any users.
	Select "Modify firmware environment values", "Perform volume maintenance
	tasks", & "Profile single processes", & make sure there is only "Administrators".
	Select "Profile system performance", & make sure there is only "Administrators,
	NT SERVICE/WdiServiceHost".
	Select "Replace a process level token", & make sure there is only "LOCAL
	SERVICE, NETWORK SERVICE".
	Select "Restore files & directories", & make sure there is only "Administrators".
	Select "Shut down the system", & make sure there is only "Administrators,
	Users".
	Select "Take ownership of files or other objects", & make sure there is only
	"Administrators".
Edit Se	curity Options:
	Select "Local Policies" on the left & then select "Security Options".
	Select "Accounts: Guest account status" & disable it.
	Select "Devices: Prevent users from installing printer drivers", "Devices: Restrict
	CD-ROM access to locally logged-on user only", & "Interactive logon: Do not
	display last user name" & enable all three.
	Select "Network access: Allow anonymous SID/Name translation" & disable it.

	Select "Network access: Do not allow anonymous enumeration of SAM
	accounts" & "Network access: Do not allow anonymous enumeration of SAM
	accounts & shares" & enable both.
	☐ Select "Network security: Do not store LAN Manager hash value on next
	password change" & enable it.
	☐ Select "Network security: LAN Manager authentication level" & select "Send
	NTLMv2 response only. Refuse LM" from the dropdown.
	Jsers & Administrators
	Open Control Panel: Click the Start button, type "Control Panel" on the search bar, click
_	enter, & select "Yes" if prompted. Control Panel will open.
	Select "User Accounts" in the Control Panel & select "Manage another account".
۵	If you find any unauthorized accounts, delete them by selecting the account, clicking
	"Delete the account", & selecting "Keep files".
_	If you need to add an account, click "Add", type the name of the account, the password
	for the account, & the account type (Standard for a User & Administrator for an
	Administrator). Then, click "Create a password" & create a strong password.
_	If you need to change the account type, select the account, click "Change account type"
	& choose whether they are an Administrator or User. Then, click "Create a password" &
	enter a strong password.
4	If you find any account with no password (It will not say "Password protected" if so),
	then select the account, click "Create a password", & enter a strong password.
	le Guest Account
u	Through Microsoft Management Console:
	Open Microsoft Management Console: Click the Start button, type "Mmc", click
	enter, & select "Yes" if prompted. Microsoft Management Console should open.
	Select "File" on the top-right & select "Add/Remove Snap-in"
	☐ In the available snap-ins column, select "Local Users & Groups" & select the
	"Add" button in the center. Select "Finish" in the pop-up & then select "OK"
	From the main window, select the "Local Users & Groups" snap-in, select the "Users" folder & relect "Creat" Creat User Proporties should appear
	"Users" folder, & select "Guest". Guest User Properties should open.
	☐ Check the box that says "Account is disabled", select "Apply", & then select "Ok".
	Through Batch Files:
	Open Notepad(++): Click the Start button, type "Notepad", click enter, & select
	"Yes" if prompted. Notepad(++) should open.
	☐ In the notepad file, type in "@echo off", & then press enter twice.
	Then, type "title Disable Guest Account", & press enter twice.
	After that, type "net user guest /active:no".
	Finally, type "pause". The file should look like this:
@echo off	2. 2
title Disable G	uest Account
net user guest	/active:no

net us

🖵 Enab	ole Windo	ows Firewall
	Throug	gh Control Panel:
		Open Control Panel: Click the Start button, type "Control Panel" on the search
		bar, click enter, & select "Yes" if prompted. Control Panel will open.
		Make sure the "View By" option on the top-right is selected as "Category".
		Select "System & Security" & then select "Windows Defender Firewall".
		On the left-pane, select "Turn Windows Defender Firewall on or off"
		Select "Turn on Windows Defender Firewall" on both Public & Private networks.
		Add Windows Firewall Exceptions:
		☐ On the Windows Firewall Page left-pane, select "Allow an app or feature through Windows Defender Firewall"
		☐ Select apps to accept through Windows Firewall (Used for applications
		that need to be enabled as per the read-me).
	Throug	gh Batch Files:
		<u>Open Notepad(++):</u> Click the Start button, type "Notepad", click enter, & select "Yes" if prompted. Notepad(++) should open.
		In the notepad file, type in "@echo off", & then press enter twice.
		Then, type "title Enable Firewall", & press enter twice.
		After that, type "netsh advfirewall set allprofiles state on".
		Finally, type "pause". The file should look like this:
@echo off		
title Enable Firewall	-11	
netsh advfirewall set pause	aliprofiles state	e on
Г	1 Advan	ced Firewall Settings:
•	- <u>210 van</u>	
	_	bar, click enter, & select "Yes" if prompted. Local Security Policy will open.
		CLick "Windows Defender Firewall with Advanced Security - Local Group
		Policy Object", & then click "Windows Defender Firewall Properties".
		☐ In the "Domain Profile" tab, make sure "Firewall state" is on, "Inbound
		connections" is blocked, & "Outbound connections" is allowed.
		☐ Customize General & Logging Settings:
		☐ Click on the "Customize" button in the "Settings" section.
		☐ Make sure "Display a notification" is set to "No", "Apply local
		firewall rules" is set to "Yes", & "Apply local connection
		security rules" is set to "Yes". Click "Ok".
		☐ Click on the "Customize" button in the "Logging" section.
		☐ Make sure "Name" is set to "%SYSTEMROOT%\System32\
		logfiles\firewall\domainfw.log", "Size limit (KB)" is set to
		16384 KB, "Log dropped packets" is set to "Yes", & "Log
		successful connections" is set to "Yes". Click "Ok".
		Private Profile:
		☐ In the "Private Profile" tab, make sure "Firewall state" is on, "Inbound
		connections" is blocked, & "Outbound connections" is allowed.

	Customize General & Logging Settings:
	☐ Click on the "Customize" button in the "Settings" section.
	☐ Make sure "Display a notification" is set to "No", "Apply local
	firewall rules" is set to "Yes", & "Apply local connection
	security rules" is set to "Yes". Click "Ok".
	☐ Click on the "Customize" button in the "Logging" section.
	☐ Make sure "Name" is set to "%SYSTEMROOT%\System32\
	logfiles\firewall\privatefw.log", "Size limit (KB)" is set to 16384
	KB, "Log dropped packets" is set to "Yes", & "Log successful
	connections" is set to "Yes". Click "Ok".
	☐ Public Profile:
	☐ In the "Public Profile" tab, make sure "Firewall state" is on, "Inbound
	connections" is blocked, & "Outbound connections" is allowed.
	Customize General & Logging Settings:
	☐ Click on the "Customize" button in the "Settings" section.
	☐ Make sure "Display a notification" is set to "No", "Apply local
	firewall rules" is set to "No", & "Apply local connection security
	rules" is set to "No". Click "Ok".
	☐ Click on the "Customize" button in the "Logging" section.
	☐ Make sure "Name" is set to "%SYSTEMROOT%\System32\
	logfiles\firewall\publicfw.log", "Size limit (KB)" is set to 16384
	KB, "Log dropped packets" is set to "Yes", & "Log successful
	connections" is set to "Yes". Click "Ok".
Check	Event Viewer
	Open Control Panel: Click the Start button, type "Control Panel" on the search bar, click
	enter, & select "Yes" if prompted. Control Panel will open.
	Make sure the "View By" option on the top-right is selected as "Category".
	Select "System & Security" & then select "Administrative Tools".
	In the new window, select "Event Viewer", & another new window should open.
	On the left-pane, select "Windows Logs", & check each log for any bad stuff.
	Vindows Features on or off
	Open Control Panel: Click the Start button, type "Control Panel" on the search bar, click
	enter, & select "Yes" if prompted. Control Panel will open.
	Make sure the "View By" option on the top-right is selected as "Category".
	Select "Programs" & then select "Programs & Features".
	On the left-pane, select "Turn Windows features on or off", & a new window will open.
	There, select any Windows features to turn on, & unselect any to turn off.
	e Remote Connections
	Open Control Panel: Click the Start button, type "Control Panel" on the search bar, click
_	enter, & select "Yes" if prompted. Control Panel will open.
	Make sure the "View By" option on the top-right is selected as "Category".
<u> </u>	Select "System & Security" & then select "System".
	On the left-pane, select "Remote settings", & a new window will open.
	There, select "Don't allow remote connections to this computer".

Enable	Internet Security & Privacy Settings
	Open Control Panel: Click the Start button, type "Control Panel" on the search bar, click
	enter, & select "Yes" if prompted. Control Panel will open.
	Make sure the "View By" option on the top-right is selected as "Category".
	Select "Network & Internet" & then select "Internet Options".
	In the Security tab, slide the slider up so that the description says "High"
	In the Privacy tab, check "Never allow websites to request your physical location" &
	"Turn on Pop-Up Blocker".
	Then select "Advanced" on the top-right & select "Block" for both First-party &
	Third-party Cookies.
Enable	User Account Control (UAC)
	Open Control Panel: Click the Start button, type "Control Panel" on the search bar, click
	enter, & select "Yes" if prompted. Control Panel will open.
	Make sure the "View By" option on the top-right is selected as "Category".
	Select "System & Security" & then select "Security & Maintenance".
	On the left-pane, select "Change User Account Control settings".
	In the new window, move the slider to the top near where it says "Always notify".
Requir	e CTRL + ALT + DEL
	Through Local Security Policy:
	• Open Local Security Policy, select "Local Policies" & select "Security Options".
	☐ Select "Interactive logon" & select "Do not require CTRL + ALT + DEL"
	☐ Change the setting to disabled & select "OK"
	Through Network Places Wizard:
	• Open Network Places Wizard: Click the Start button, type "netplwiz" on the
	search bar, click enter, & select "Yes" if prompted. Network Places Wizard will
	open.
	☐ In the "Advanced" tab, "Secure sign-in" section, check the "Require users to
	press Ctrl+Alt+Delete" box.
	☐ Select "Apply", & then select "Ok".
	e C-Drive file sharing
	Through Computer Management:
	☐ Open Computer Management: Click the Start button, type "Computer
	Management", click enter, & select "Yes" if prompted. Computer Management
	should open.
	☐ Select "Shared Folders", select "Shares", & right-click the "C" share (Not "C\$")
	☐ Select "Stop Sharing" & select "Yes"
	Through Command Prompt:
	• Open Command Prompt: Click the start button, type in "Command Prompt" on
	the search bar, & click enter. Command Prompt should open.
	Type in "net share" in command prompt. A list of all shares should appear.
	☐ If one of the shares is "C" or "Users", type in "net share [share] /delete".

Turn o	n Back-Ups
	Open Control Panel: Click the Start button, type "Control Panel" on the search bar, click
	enter, & select "Yes" if prompted. Control Panel will open.
	Make sure the "View By" option on the top-right is selected as "Category".
	Select "System & Security" & then select "Backup & Restore".
	On the left-pane, select both "Create a system image" & "Create a system repair disc".
	Then change the settings to set up regular, automatic full backups.
Clear 1	DNS (Domain Name Servers)
	Open Command Prompt: Click the start button, type in "Command Prompt" on the search
	bar, & click enter. Command Prompt should open.
	Type in "ipconfig /flushdns" in command prompt. It should read "Windows IP
	Configuration" & "Successfully flushed the DNS Resolver Cache."
Check	for & deny listening ports
	Open Command Prompt: Click the start button, type in "Command Prompt" on the search
	bar, & click enter. Command Prompt should open.
	In Command Prompt, type in "netstat -aon findstr :<#>", where <#> is the port number
	you want to deny. Note the Port ID, the left-most number, of the port.
	If the port says "LISTENING", type in "taskkill /PID <port id=""> /F", with <port id=""></port></port>
	being the Port ID.
	Some common ports to deny: SSH - Port 22, Telnet - Port 23, FTP - Ports 20 & 21, RPC -
	Port 135, Direct Connect - Ports 411 & 412, RDP - Port 3389, POP3 - Port 110.
	tomatic Updates
	Windows 10:
	Open Windows Update Settings: Click the start button, type in "Windows Update
	Settings" in the search bar, & click enter. Windows Update Settings should open.
	☐ Select "Advanced Options" & chose automatic. You might either need to choose
	from a dropdown or enable it by selecting "Automatically Download Updates".
	Windows Server 2016:
	Open Command Prompt: Click the start button, type in "Command Prompt" on
	the search bar, & click enter. Command Prompt should open.
	Type in "sconfig" in command prompt. There should be a numbered list under
	the words "Server Configuration".
	☐ Type in 5 & press enter. The type in "a" & press enter. Automatic updates should
_	be enabled.
	Through Batch Files (SOME SMALL ERRORS MAY BREAK MACHINE!):
	Open Notepad(++): Click the Start button, type "Notepad", click enter, & select
	"Yes" if prompted. Notepad(++) should open.
	☐ In the notepad file, type in "@echo off", & then press enter twice.
	☐ Then, type "title Enable Windows Updates", & press enter twice.
	□ Next, type "reg add "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\
	Windows\CurrentVersion\WindowsUpdate\Auto Update" /v AUOptions /t
	REG_DWORD /d 4 /f".
	☐ Finally, type "pause". The file should look like this:

		title Enable Updates
		REM This registry key enables updates reg add "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Auto Update" /v AUOptions /t REG_DWORD /d 4 /f
		pause
	Create	e Complete Batch File (Instead of Disable Guest Account, Firewall, Auto Updates)
		Open Notepad(++): Click the Start button, type "Notepad", click enter, & select "Yes" if
		prompted. Notepad(++) should open.
		Then, type "title Complete Batch", & press enter twice.
		After that, type "net user guest /active:no", & press enter twice.
		Then, type "netsh advfirewall set allprofiles state on", & press enter twice.
		Next, type "reg add "HKEY LOCAL MACHINE\SOFTWARE\Microsoft\Windows\
	_	CurrentVersion\WindowsUpdate\Auto Update" /v AUOptions /t REG DWORD /d 4 /f".
		Finally, type "pause". The file should look like this:
echo off		Thany, type pause. The the should look like this.
Title Cyber	Patriot Scrip	t
	Guest Accoun	
REM Turn on netsh advfi		lprofiles state on
REM Turn on	Automatic Up	dates
reg add "HK Dause	EY_LOCAL_MACH	INE\SOFTWARE\Microsoft\Windows\CurrentVersion\WindowsUpdate\Auto Update" /v AUOptions /t REG_DWORD /d 4 /f
	Chang	ro Cwann Daliaias
_		ge Group Policies
	_	Open Group Policy Editor: Click the Start button, type "Gpedit" on the search bar, click
	_	enter, & select "Yes" if prompted. Group Policy Editor should open.
	u	<u></u>
		Select "Computer Configuration" on the left & then "Administrative Templates".
		☐ In the "Windows Components" folder, select "Windows Installer", & select
	_	"Prohibit User Installs".
		Edit User Configuration:
		Select "User Configuration" on the left & select "Administrative Templates".
		☐ In the "Control Panel" folder, select "Prohibit access to Control Panel & PC
		settings" & enable it.
		☐ In the "System" folder, select "Removable Storage Access", select "All
		Removable Storage classes: Deny all access", & enable it. Then select "Prevent
		access to the command prompt", & enable it.
		☐ In the "Windows Components" folder, select "Windows update", select "No
		auto-restart with logged on users for scheduled automatic updates installations",
		& enable it.

Windows 10 & Server 2016 How-To's

How to	remove a program
	Go to Control Panel & select "Programs & Features"
	Right-click the program, select "Uninstall", & select "Yes" if prompted. A screen
	showing "Uninstallation Complete" should appear.
	Open File Explorer: Click the Start button, type in "File Explorer" on the search bar, &
	click enter. File explorer should open.
	Select "This PC" on the left & search up the name of the program.
	Delete it & any folders relating to it.
	search for a file or file extension
	Open File Explorer, select "This PC", & click on the search bar on the top-right.
	To search for a file, type in the name of the file & its extension (like .txt or .docx) & then
	click enter. The document & any related documents or folders will appear.
	To search for a specific file extension, type in * & then the name of the file extension
	(like *.mp3). All the files with the file extension should appear (Useful for finding
	non-work related items like music).
	identify a md5 hash of a document
	Open Powershell: Click the Start button, type "Powershell" on the search bar, click enter,
	& select "Yes" if prompted. Powershell should open.
	Type in Powershell "Get-FileHash -Algorithm md5 (file directory here, like
	C:\Users\me\Documents\filename.txt for example)". A file hash should be generated.
	Look under where is says "Hash" & you should see a file hash generated.
	o find the owner of a document
	Right-Click the document & select "Properties".
	Select the "Security" tab and select "Advanced" at the bottom. The owner should appear
	at the top of the screen.
	identify users in groups
	Open Microsoft Management Console: Click the Start button, type "mmc", click enter, &
	select "Yes" if prompted. Microsoft Management Console should open.
	Select "File" on the top-right & select "Add/Remove Snap-in"
	In the available snap-ins column, select "Local Users & Groups" & select the "Add"
_	button in the center. Select "Finish" in the pop-up & then select "OK"
	From the main window, select the "Local Users & Groups" snap-in, select the "Groups"
	folder, & select the desired group.
	o find the SID of a user
	Open Command Prompt: Click the start button, type in "Command Prompt" on the search
_	bar, & click enter. Command Prompt should open.
	In Command Prompt, type in "wmic useraccount where name="USER" get sid" where
	USER is the name of the user you want the SID for.