



"Install to USB"

A guide to creating both the "basic" and "bootable" versions of an OSF USB

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ISB Directory	D:\OSF	orensics		Browse
Enter license k	ey to be in	duded with the OSFor	ensics USB drive ins	tallation
Jsername and Key				

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Software Quick-Start Guide < Install to USB

Overview...

The "Install to USB" feature of OSF orensics (OSF) allows user to install the application to a USB drive for use on live systems. In addition to the basic installation feature, users can also create a bootable version of OSF which allows a user to safely boot-up a computer into the OSF environment. The bootable version is useful for multiple purposes and can be used to boot most any computer, even those lacking an operating system. In addition to creating an OSF USB, users can also create an OSF CD/DVD/BD disk as well.

OSF will create a new directory on the USB drive (e.g. F:\OSForensics), and copy all program files and license information to the USB drive. The application's executable will be located inside the new directory. (e.g., F:\OSForensics\OSForensics.exe). Simply double-click the .exe to launch the app.



Unlike other products on the market, this portable version of OSF is no different from the installed version. The interface and features are all identical, whether using the installed version on your computer, or the USB version on a target computer.

> When running from a USB, OSF will set the default case settings to "Live Acquisition of Current Machine", as it assumes the user is using the USB version to analyze the host machine. When launching the installed app on your computer, OSF will set the default case settings to the "Investigate Disks from Another Machine" setting.

The automated install process can only install OSF to any USB device that Windows identifies in Device Manager as "Removable", as shown here in Figure 2.

Disk 4 Removable 58.86 GB Online

RAM 5 (E:) 58.86 GB NTFS Healthy (Primary Partition)

Users can also install OSF to a CD or

Figure 2

non-removable USB device such as most USB external hard drives. To do this, you must specify a writable temporary directory such as "*C*:*OSForensics*" in the USB Directory path as shown in Figure 3 below.

Upon completing the installation to this temporary directory, burn the created directory to the optical disk, or simply move (e.g., drag and drop), the directory to the external USB device.

	Install	to USB) Make self booting USB drive (with W	/inPE)
	Installation locat	ion		
е	USB Directory	C:\OSForens	sics	Browse
			Figure 3	

For more information on this subject, please visit: <u>https://www.osforensics.com/faqs-and-tutorials/creating-selfboot-option.html</u>



STEP 1. Plug-in USB flash drive - Plug-in a removable USB device you wish to use for the installation. For optimal performance, make sure to use a high-quality USB 3.0 device with fast read/write speeds.



STEP 2. Launch OSForensics – After plugging in the USB device, double-click the OSForensics desktop shortcut to launch the application.

SF OSForensics - Demo Case		222	۵	- 2
🖑 Start	23 Start			н
Manage Case	Case Management			-
💞 File Name Search				
🥪 Create Index	Create Case Import Case Generate Report Vew Log			
🤕 Search Index				
Recent Activity				
Deleted Files Search				
R Mismatch File Search	File None Search Minutuded Files Create Index Search within Search Files			
Remory Viewer	Hashing & File Identification			
Prefetch Viewer				
Raw Disk Viewer	NewHash NewHashSet Deservise Compe			
Registry Viewer	Vessor Josson Josson			
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Web Browser	Pie and Nex Memory Weiver Reyolity Verver Registry Verver Biosystem SQL/ac DB Web Biovream Enal/Verver TransCache ESSDB Verver Prefetch Verver Verver			
Second Se	System Action Action Section 1			
System Information				
Verify / Create Hash	Deleted Files & Recent Activity Syntem Website Document			
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Drive Preparation	Unite maging include time framework use in the state to use in the state of the intervence in the state of th			
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🚜 Install to USB				
About				_
🙀 Exit	Search for files images on the hard drive by Bie name and browse the user list as a list or as therefails (Collonable work can			
1	A star sources to source the source of th			



STEP 3. Click "Install to USB" – After launching OSForensics, click on the "Install to USB" module from the OSF Workflow, or the "Install to USB" icon located on the Start screen of OSF to launch the installer.



STEP 4. Choose Installation Type – After the installer window appears, you will need to choose which type of OSF USB you wish to create. For a basic OSF USB for use on live Windows computers, choose the "Install to USB" option which is the easiest and quickest to create. Verify that the correct directory path is set, and if not, make the necessary corrections. You should typically choose the root of the USB drive for most installations.

JSB Directory D:\OSForensics Bi	rowse
inter license key to be included with the OSForensics USB drive installa	
and Key SALES,MARKETING #A286AJEJ2M-BC828V/22/MNFIAQ6M9TA7C3VR2A 34-IBX/VC2A8E59F28UTQGA34UK23VF6HB48F3K4S GG8/VCCQV3X95T98T625D29288M2WGXML4C53DRNB	

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STEP 5. Enter OSF License Key– In order to create a USB version of OSF, you will need to have a valid, licensed copy of OSF orensics Pro. You cannot create a USB version using a Trial license of OSF that is available on the OSF orensics website. To create the OSF USB, simply Copy/Paste your OSF license key into the box as shown below. Make sure you include the START and END lines of the key.

Installation	location			
USB Direct	ory D:\OS	Forensics		Browse
	34-1540/9/2/54	ABES SP 26UT QGA: 3X9 ST 9ET S2 SD 24	SALIKZ SVPMHDASPS SZBIMZWGXMLACS	ICRNB

STEP 6. Click Install – After entering your license key, simply click the "Install" button to finish the installation. If you chose the basic "Install to USB" option, the process will be complete after this step and the USB is ready for use.

- If you selected the "Make self-booting USB drive (with WinPE)" option, continue to STEP 7...

END_OF_KEY		
Install	Evit	

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STEP 7. Creating a Bootable USB – If you selected to create a bootable OSF USB, the OSForensics' WinPE Builder will now launch and guide you through the remaining steps. (You must either have the Windows AIK or ADK installed prior to creating the USB, which is covered in STEP 9.)

Installation Local Direct Enter licen Username and Key	n loca tory ise ke Jef #A 561 PNr	nstalling OSForensics to USB drive OSForensics has been successfully copied to to: D:\OSForensics WinPE Builder will now launch to complete the steps necessary bootable install.	/ to make a
		[ОК

STEP 8. Review the "Getting Started" tab – After the WinPE Builder launches, review the material on the first tab, labeled "Getting Started", then proceed to the next tab titled, "WinPE/Packages" by clicking "Next".

Getting Started	WinPE / Packages	Program / Fil	es Drivers	Startup Script Create
		WH Wir Cor tro	at is Window ndows Preins ndows Kerne nputer, how ubleshooting	vs PE? stallation Environment is a lightweight version of Windows build on 9. Windows PE is not designed to be the primary operating system on a ever, it is useful for preparing computers for installation, 9, data recovery, and a host of other uses.
		-Wi sof	ndows PE Lin ndows PE in tware featur	nitations includes only a subset of the available Win32 API thus possibly limiting res.
C	PASSMARK'	-W use -Cr you	ndows PE au anges made start the co	utomatically stops running and reboots after 72 hours of continuous to WnPE registry while running Windows PE are lost the next time omputer.
	A S C M C M	Pa	sMark WinPi	E Builder vas developed to aid licensed users of PassMark BurnInTest
DaceMark V	NinDE Builder V1 1 (1	ain me inc	s to assist u ntioned in pr ompatiable o	In OS ordensics build bootable versions of the software. This software sers in setting up an environment that will allow PassMark programs revious sentence to run on a computer system without or with an operating system (OS) installed.
Cop http://	yright 2013-2016 www.passmark.com	Re The	quirement software ci	urrently requires atleast Windows 7. WinPE 3.0, WinPE 4.0, WinPE 5.0
		andava	WinPE for V ailable in Win	Windows 10 are supported. NOTE: Native USB 3.0 support is not iPE 3.0.
		He	p / Support	

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STEP 9. AlK or ADK? – If you are on a Windows 7 machine, you will need the Windows Automated Installation Kit (AIK). You can download at: https://www.microsoft.com/en-us/download/details.aspx?id=5753

← → C ■ Secure https://www.microsoft.com/en-us/download/details.aspx?id=5753	☆ ‡
The Windows® Automated Installation Kit <mark>l</mark> (AIK) for Wi	indows® 7
Select English Download	
The Windows® Automated Installation Kit (AIK) for Windows® 7 helps you to install, customize, and deploy the Microsoft Windows® 7 and Windows Server® 2008 R2 family of operating systems.	
If you are using Windows 10 , you will need the W Deployment Kit (ADK), which is available <u>https://developer.microsoft.com/en-us/windows</u> <u>assessment-deployment-k</u>	for download at: <u>s/hardware/windows-</u> <u>it</u>
← → C Secure https://developer.microsoft.com/en-us/windows/hardware/win	ndows-assessment-deployment-kit
Windows ADK for Windows 10, version 1709	Kit (Windows ADK)
Customize, assess, and deploy Windows on your hardware	al the holosofted - I - I - I
Download the Windows ADK for Windows 10, version 1709, to get the new and improved deployment and provisioning tools used to automate a large-scale deployment. The Windows ADK includes:	A state of the state of t
 The Windows Assessment Toolkit and the Windows Performance Toolkit to assess the quality and performance of systems or components. 	Andre Ser Ser Ser Ser Ser Ser Ser Ser Ser S
Deployment tools such as WinPE, Sysprep, DISM and other tools that you can use to customize and deploy Windows 10 images.	
Download now	

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Windows 10, version 1703 deploy Windows on your hardware ADK for Windows 10 to get the new and imp sed to automate a large-scale deployment. T	Specify Locat Install the Window Install Path: C.\Program Files	tion vs Assessment and Deployment Kit - Windows 10 to this computer (x86)\Windows Kits\10\ Browse
for PassMark Programs adkages Program / Files Drivers Startup Script Create lation uld environment, you will need either Windows Automated Installation Kit (Windows ADK) for WinPE 44. You will need to download and instal 9. .0) - http://www.microsoft.com/en-us/download/details.aspx?id=5753 .0) - http://www.microsoft.com/en-us/download/details.aspx?id=30652 .0) - https://www.microsoft.com/en-us/download/details.aspx?id=30962 for Win 10) - https://wmw.microsoft.com/en-us/download/details.aspx?id=39982 .00 for Win v Windows AIX or ADK installed directory: for Win v C: Program Files (x86)/Windows Kits 10 /hich to include) .00	UK) for WinPE 3.0 or them from Microsoft r=vs.85).aspx Change	dows Assessment and Deployment Kit - Windows 10 for installation on a separate ford\Downloads\Windows Kits\10\ADK Browse Make sure these paths match, otherwise the process will not be successful!
Description HTML Application support. Enables the creation of GUI applications using the V Windows Script Host (WSH) support. Enables batch file processing using WSH	/indows Internet Expl	Next Cance

Make sure that the path to the AIK or ADK is correctly set in the WinPE builder as shown in these examples...

Getting Started	WinPE / Packages	Program / Files	Drivers	Startup Script	Create		
Required Sof	tware Installation						
Windows As website befo Windows A Windows A Windows A Windows A Windows A	recows PE build envir sessment and Deplo re continuing. IK (WinPE 3.0) - http: DK (WinPE 4.0) - htt DK (WinPE 5.0) - htt DK (WinPE for Win 10	yment, you will yment Kit (Windov p://www.microsof ps://www.microsof ps://www.microsof)) - https://msdn.	t.com/en- t.com/en- ft.com/en oft.com/en oft.com/en	er windows Auto or WinPE 4+. You us/download/de -us/download/de n-us/download/d .com/en-us/librar	tails.aspx?id=5753 tails.aspx?id=5753 tails.aspx?id=30652 letails.aspx?id=3998 y/windows/hardward	ad and install ther ad and install ther 2 i2 e/dn938389(v=vs	or wine 2.0 or n from Microsoft .85).aspx
	WieDE Version	Windows AIK	or ADK in	nstalled directory	e .		
Target Arch.	winee version:						

STEP 10. Add OSF and Support Files to the Build – On the "Program/Files" tab, the WinPE builder will automatically add the OSF or ensic application and support files (font files) to be added to the build as shown below. You may also add additional files to the build on this screen if

Getting Star	ted WinPE / Packages Program / Files	Drivers Startup Script Create						
PassMar Select a destina the "Pro	k Program Selection program that you wish to include into your tion of the directory from the "Install to USE ogram Files" directory of the WinPE image.	WinPE image. When selecting a PassMa Disk [*] menu option in the corresponding	rk program, you will need to specify the program. The program will be placed in					
PassMa	ark OSForensics)					
Selected	Selected program exported files directory:							
D:\OS	Forensics		Change					
Add Add	itional Files							
Туре	Source	Destination	Options					
File	C:\WINDOWS\Fonts\sserife.fon	\Windows\Fonts\	Required					
File	C:\WINDOWS\Fonts\micross.ttf	\Windows\Fonts\	Required					
File	C:\WINDOWS\Fonts\Cour.ttf	\Windows\Fonts\	Required					
File	C: WINDOWS Fonts (Calibri, ttf	(Windows/Fonts)	Required					
File	C: (WINDOWS (Ponts Anal. ttr	(windows Fours /	Required					
			Add Remove					

STEP 11. Add Drivers – You may choose to add any additional drivers that may be needed on the "Drivers" tab. If none are needed, simply click the "Next button to advance to the next tab.

Getting Started	WinPE / Packages	Program / Files	Drivers	Startup Script	Create			
Add Drivers			+ 100					
/ForcedUnsig	ned switches. Which	ay be needed (su will recurse the d	rivers' su	bfolders for vali	d .inf drivers ar	id ignore drive	er signing requir	ements.
						7.0		
Drivers								
-								
							Add	Remove

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STEP 12. Select Startup Method – On this tab, you must choose whether to use the "startnet.cmd" or "winpeshi.ini" method to launch OSF after booting. The "startnet.cmd" will give you access to the command prompt to run a specific set of commands, batch files or scripts. "winpeshi.ini" provides no access to the command prompt, but will stop regular users from having direct access into the physical environment itself once booted and is recommended for basic users.

	WinPE / Packages	Program / Files	Drivers	Startup Script	Create
Startup Met	hod				
Windows PE -startnet.c -winpeshl.i booted.	provide several met md will give you acce ni would provide no c	hods for launching ss to the commar command prompt,	g custom s id prompt but will st	scripts. to run a specific top regular users	set of commands, batch file or scripts. from having direct access into the PE itself once
🔿 startnet.cn	nd 🖲 winpeshl.ini	Custom			Browse
; This line is a ; [LaunchApps ; Initialize Wi %SYSTEMDR ; Launch Prog ; 32bit Image ; %SYSTEMD ; or ; 64bit Image "%SYSTEMD	IVE%\Windows\Syste IVE%\Windows\Syste gram RIVE%\Program Files	em32\wpeinit.exe s\OSForensics\Pro	e ; mom e gram File	s\osf64.exe"	ите.



STEP 13. Verify Drive & Create – On this final tab, users will need to review all configuration options and make any necessary changes before clicking "Create". Unlike the basic USB installation, creating a bootable disk **WILL** format the device, thus deleting any and all files from the drive. Make sure you save any important files to another source prior to creating the bootable USB, and verify that the correct drive letter has been selected. After verifying all settings are correct, check mark the "*Configuration is correct*" box and click "Create". The "Temp Work Dir" location must have plenty of free space and the directory needs to be empty. It is recommended to create a "TEMP" folder (as shown below), to use for this operation which can be deleted after the process completes. If there is not enough space to store the temp directory, or if there are pre-existing files in the chosen directory, the operation will fail.

i ussiinun iriin	e ounder for Fuss	manerrograms						
etting Started	WinPE / Packages	Program / Files	Drivers	Startup Script	Create			
Burn your Wir Please review disc in the se destination w	PE Image v over the configura lected drive. If you <u>ill be DESTR</u> OYED!	tion and make an choose USB Flash	y change Drive, m	s before creating ake sure you cor). If burnin rectly sele	ng to a CD/DVD ected the right), please place blar drive. ALL CONTE!	nk recordable NTS on
Temp Work D	Dir: C:\TEMP							Browse
Torg Dr	et: O Save as ISO O USB Flash Dr /e: D:\	(CD/DVD)iso v ive File Sys	vill be left tem: FA	in Temp Work Di ™32 ∨	Tł sh	e "Temp \ ould be en	Work Dir" yo mpty.	u choose
:: "x: \Program :: or :: 64bit Image "x: \Program Fi [Contents of s	Files \OSForensics \P les \OSForensics \Pro cript - END]	ogram Files\osf3	2.exe"					
< CREATE Temp Work Dir Create Target Destination Dr Format Option	OPTIONS> rectory: C:\TEMP : USB Flash Drive ive: D:\ s: FAT32, Quick For	mat		$\overline{\ }$				
<					1		ation is correct	Create

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STEP 14. WinPE Build In-Progress – After clicking "Create", the WinPE build process will begin, requiring no interaction from the user. This process is typically a bit time consuming depending on several factors. You can view the process in the CMD prompt window as it builds. The process is not complete until the WinPE progress bar stops cycling and the message changes from "Building Custom WinPE Image", to "Complete" as shown on the next page.

Tation	600 8										
C:\WINDOWS		6									
C:\Program Files (installation Envir	system32\cmd.exe		- 🗆 X								
<pre>installation Envir CiVProgram Files (installation Envir CiVProgram Files (einstallation Envir CiVProgram Files (installation Envir CiVProgram Files (installation Envir 135 File(s) copiec W 1 file(s)</pre>	<pre>(x86)\Windows Kits\18 (x86)\Windows Kits\18 (x86)\Windows Kits\18 oroment\am664\Wedia\ (x86)\Windows Kits\18 oroment\am664\Wedia\ (x86)\Windows Kits\18 oroment\am664\Wedia\ z000 kits\18 oroment\am664\Wedia\z oroment\am664\Wedia\z copied. copied.</pre>	<pre>Alassessent and Deploym latn-ralybootmgn-efi.mui sakbootmgn.efi.mui Alassessment and Deploym tribootmgn.efi.mui Alassessment and Deploym ukbootmgn.efi.mui Alassessment and Deploym .th-chloootmgn.efi.mui Alassessment and Deploym .th-tw\bootmgn.efi.mui</pre>	ent KitlWindows Pre ent KitlWindows Pre ent KitlWindows Pre ent KitlWindows Pre ent KitlWindows Pre	rk WinPE arted W our WinPE e review o the select ation will b Work Dir:	Builder for Pa InPE / Package Image ver the configu ted drive. If yo be DESTROYED C:\TEMP	Program ation and r choose U	ograms h / Files Drivers St make any changes be SB Flash Drive, make	tartup Script C	(f burning to a CD/DV) ctly selected the right	D, please place blan t drive. ALL CONTEN	k recordable (TS on Browse
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Deployment Image S Deversion: 10.0.1500 Mounting image	Servicing and Managém 63.0	ment tool		Drive: ation Sum	USB Flash D:\ mary: es/OSForensics	WinPi	E Build in Progress.	om WinPE Imag	e		^
le Search [x x] x wer	Deleted Files & Recent Data Carving Housekeeping	Activity System Information	Scan for Passwords/N Cor Passwords/N Core Desi	Hoit Image Program Files Intents of scrip CREATE OF p Work Direct the Target: U tination Drive mat Options: I	\OSForensics\F ot - END] PTIONS> tory: C:\TEMP SB Flash Drive : D:\ FAT32, Quick F	ogr		Cancel			
Browser	Drive Imaging Moun	t Drive Forensic Copy age	Install to U!						Configur	ation is correct	Create
rowser	Help and Information -	3	Ext	t	Help					Previous	Next
ewer	About H	elp									
ate Hash		eate a mobile USB d	rive copy of OSF	orensics	to use on t	e					
ature	J.	nnis can men de use	cu tor live acquisi	uvna.							

etting Started	WinPE / Packages							
		Program / File	s Drivers	Startup Script	Create			
Burn your Win	PE Image							
Please review disc in the sel	over the configuration	ation and make choose USB Fla	any changes ish Drive, m	s before creatin ake sure you co	g. If burning rrectly select	to a CD/DVD, ple ed the right drive	ALL CONTER	nk recordable NTS on
destination w	be DESTROYED!							
Temp Work D	r: C:\TEMP							Browse
Targe	t: O Save as ISC	CD/DVD)isr	will be left	in Temp Work D	ir Di	Burn to Disc		
	Q							
	OUSB Flash D	WinPE Buil	d in Progre	55				
Driv	e: D:\ ~					_		
Canfor waters C				Complete!				
Connguration St	inindi y.							
A STREET AND A	TIES IUSPOREITSICS V	10		- 0				
:: or								
:: or :: 64bit Image				Close 🛡				
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:: or :: 64bit Image "x:\Program Fil [Contents of so	es\OSForensics\Pr ript - END]	ogr		Close				
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:: or :: of :: 64bit Image 'x: \Program Fil [Contents of so < CREATE Temp Work Dir Create Target: Destination Dri Format Options	es\OSForensics\Pr ript - END] OPTIONS> Ectory: C: \TEMP USB Flash Drive ve: D:\ :: FAT32, Quick Fo	rmat		Close Y				>

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STEP 15. OSF Bootable USB Complete – When the process is complete, you should see a confirmation window as shown in the example above, indicating that the process completed successfully and you may exit the application. Simply click the "Close" button, then click "Exit". You can now safely eject your OSF Bootable USB.

Useful Links...

To download a 30-DAY TRIAL of OSForensics, please visit us at: https://www.osforensics.com/download.html

You can download the OSForensics USER MANUAL for FREE at: https://www.osforensics.com/downloads/OSF_help.pdf

For TRAINING & CERTIFICATION, please visit: https://www.osforensics.com/training.html

For FAQs and TUTORIALS, please visit: https://www.osforensics.com/faqs-and-tutorials/faqs.html

You can access VIDEO DEMONSTRATIONS at: https://www.osforensics.com/faqs-andtutorials/video_demonstrations.html

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To request a SALES QUOTE, please fill out a short form at: https://www.osforensics.com/quote.html

Or send an email request to: sales@passmark.com

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