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Transfer Files to FreeDOS Guest OS with Shared Folders VMware Workstation



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The following document will demonstrate how to enable share folders between the Host and Guest Operating Systems using VMware Workstation.

- Download "vmsmount" Zip archive from the following link: <u>http://sourceforge.net/projects/vmsmount/</u>
- 2. Find and click on the link from the webpage as shown below:



- 3. Download the files to your "Desktop" location.
- 4. Extract the file "VMMNT05B.zip" to your "Desktop" location.
- 5. You will see a folder called "VMMNT05B" once you have extracted the Zip archive successfully.
- 6. Create an ISO disc image by adding only one file, "vmsmount.exe" from the "VMMNT05B" folder.
- 7. Please note that you might also get this warning message when you create the disc image because of a very small single file being added. Ignore the warning, and then click "Yes" when you are presented with the following:



If you do not know how to extract the Zip archive file nor create ISO disc image file, please refer to the document, "Virtualization - Transfer Files to FreeDOS Guest OS with ISO image 1 - Creating Disc Image". The document outlined how to create an ISO disc image from a particular folder located under C: drive. You would have to select the folder and file mentioned in Step 6 to create an ISO disc image which has a single file called "vmsmount.ext".

- 9. For this demonstration, an ISO disc image called "**vsmouont.iso**" is created in "Desktop" location. We will be referring to this location with the subsequent steps outlined below.
- 10. Run VMware Workstation application.
- 11. Click "Edit virtual machine settings" when you are presented with the following:



12. Select "CD/DVD (IDE)" on the left under "Device" section, select "User ISO image file:", and then click "Browse..." when you are presented with the following:

Device Summary Image: Memory 16 MB Image: Processors 1 Image: Mark Mapper 2 GB Image: CD/DVD (DE) Auto detect Image: Processors 1 Image: Processors Nat Image: Processors Nat Image: Processors Nat Image: Processors Nat Image: Processor Using port LPT3 Image: Processor Image: Processor Image: Processor Image: Processor	Hardware Options		¥
	Device Memory Processors Hard Disk (IDE) CD/DVD (IDE) Foloppy Network Adapter Sound Card Parallel Port Serial Port Display	Summary 16 MB 1 2 GB Auto detect NAT Auto detect Using port LPT3 Using port COM4 Auto detect	Device status
Add <u>R</u> emove		Add <u>R</u> emove	1

13. Select and highlight on "vmsmount.iso", and then click "Open" when you are presented with the following:

🖉 🗢 🔳 Desktop 🕨		+ + ₇	Search Desktop	(
Organize 🔻 New folder			E.	-	
🔆 Favorites	File tolder				
Desktop	Temp 2 File folder				
E Libraries	VMMNT05B File folder				
Documents	fdl1src.iso Disc Image File 38.9 MB				
Videos	PDS.iso Disc Image File 1.60 MB				
I Computer	vmsmount.iso Disc Image File 78.0 KB				
File <u>n</u> ame:	vmsmount.iso	•	CD-ROM image	s (*.iso)	•
			Open 🚽	C	ancel

14. You will be presented with the following:

lardware Options		Les algements and
Device Memory Processors Hard Disk (IDE) CD/DVD (IDE) Floppy Network Adapter Sound Card Parallel Port Serial Port Display	Summary 16 MB 1 2 GB Auto detect Auto detect NAT Auto detect Using port LPT3 Using port COM4 Auto detect	Device status Connected Connect at power on Connection Use physical drive: Auto detect Use ISO image file: C:\Users\Test\Desktop\vmsmou Browse Adyanced
	Add	

15. Click on "Options" tab, select "Shared Folders" under "Settings" section, select "Always enabled"

under "Folder sharing" section, and then click "<u>A</u>dd..." when you are presented with the following:

Settings Summary Image: General MS-DOS Shared Folders expose your files to programs in the virtual machine. This may put your computer and your data at risk. Only enable shared folders if you trust the virtual machine with your data. Image: Shared Folders Disabled Image: WWC Connections Disabled Image: Matter Folder Not supported Image: Advanced Default/Default Image: Advanced Default/Default Image: Add Remove Image: Add Remove	rdware Options		
General MS-DOS Power Shared Folders Disabled Shared Folders Disabled Shared Folders Disabled Shared Folders Disabled AutoProtect Disabled AutoProtect Disabled Access Control Not encrypted WWC Connections Disabled Unity Appliance View Autologin Not supported Advanced Default/Default	Settings	Summary	Folder sharing
	General Power Shared Folders Shapshots AutoProtect Guest Isolation Access Control Wiware Tools VNC Connections Unity Appliance View Autologin Advanced	MS-DOS Disabled Enabled, Enabled Not encrypted Time sync off Disabled Not supported Default/Default	Shared folders expose your files to programs in the virtual machine. This may put your computer and your data at risk. Only enable shared folders if you trust the virtual machine with your data. Disabled Disabled Enabled until next power off or suspend Eolders Name Host Path Add Properties

16. Click "**Next** >" when you are presented with the following:



17. Click "Browse..." when you are presented with the following:

Name the Share What would ye	d Folder ou like to call t	his shared fold	er?	
<u>H</u> ost path				Browse
Name				1

18. Browse to "**PDS**" folder located under **C**: drive, and then click "**OK**" when you are presented with the following:

Browse for a Host Folder	
> 🚺 Test	
🛯 💻 Computer	
🛯 🏭 WIN7-32 (C:)	E
📕 MSOCache	
JACEM	
A 📕 PDS	
📕 save	
鷆 PerfLogs	
Program Files	-

For this demonstration we are using "**PDS**" folder where we have some legacy application. Your application and folder can be different. Please choose your own accordingly. The purpose of this demonstration is to show you how you could designate a folder on the Host Operating System to be shared with the Guest Operating System for file sharing purpose.

19. Click "<u>N</u>ext" when you are presented with the following:

Name the Shared What would yo	l Folder u like to call this shared folde	er?
<u>H</u> ost path		
C: VPDS		Browse
Name		
PDS		
		2 52 S.S.

20. Select the "<u>Enable this share</u>", and deselect "<u>Read-only</u>" (unless you want read-only access to the folder), and then click "Finish" when you are presented with the following:

Specify Shared Folder Specify the scope of	Attributes this shared folder.	
Additional attributes		
🔽 Enable this share		
Read-only		

21. Click "**OK**" when you are presented with the following:

		and the street state of the		
Settings S	ummary	Folder sharin	g	
General N Power Shared Folders D Snapshots AutoProtect D Guest Isolation E Access Control N	IS-DOS Disabled Disabled Enabled, Enabled Not encrypted Time sync off	Shared virtual n your da trust th Disal Alwa Enders	folders expose your files to nachine. This may put your ta at risk. Only enable shar e virtual machine with your bled nys <u>e</u> nabled bled <u>until next power off or</u>	programs in the computer and ed folders if you data. suspend
VNC Connections D	Disabled	Eoiders	1.8% W 9%10/7	
📃 Unity		Name	Host Path	
Autologin N	lot supported Default/Default		Add	emove Properties

22. Click "Power on this virtual machine" when you are presented with the following:



- 23. Wait for the FreeDOS Guest Operating System to start. After it is successfully booted, you will be presented with the "C:\>_" DOS Prompt.
- 24. Type "md PDS" at the DOS prompt, and the press "Enter" as shown below:

Nаме	Tota	1	Convent	iona l	Upper Me	емогу
SYSTEM	16,752	(16K)	10,448	(10K)	6,304	(6K)
COMMAND	4,064	(4R)	3,024	(3K)	1,040	(18)
SHSUCDX	11,152	(11K)	. 0	(0K)	11,152	(11K)
FDAPM	928	(1R)	0	(0K)	928	(1R)
DOSLFN	12,464	(12K)	0	(0K)	12,464	(12K)
MOUSE	3,104	(3K)	0	(0K)	3,104	(3K)
UIDE	960	(1R)	0	(0K)	960	(1K)
Free	680,880	(665K)	639,504	(625K)	41,376	(40K)
Drives Ass	igned					
Drive Drive	r Unit					
D: FDCDØ	001 0					
2 drive(s) a	vailable.					
FreeDOS KEYE	2.01 -	(c) Aitor	Santamarí	a Merino	- GNU GPL 2	2.0
Reyboard lay	out :	C:\FDOS\B	IN\keyboar	d.sys:UX	[858] (3)	
Done process	ing start	up files	C:\FDCONFI	G.SYS and	C:\AUTOEXE	C.BAT
	ant sunn	ort on co	MMANds and	navigati	on	

25. Type "D:" at the DOS prompt, and then press "Enter" as shown below:

```
Modules using memory below 1 MB:
  Nаме
                  Total
                                   Conventional
                                                       Upper Memory
                        (16K)
  SYSTEM
               16,752
                                   10,448
                                            (10K)
                                                        6,304
                                                                  (6K)
                                                        1,040
               4,064
                                    3,024
  COMMAND
                         (4R)
                                             (3K)
                                                                  (1R)
                        (11K)
                                                                 (11R)
  SHSUCDX
               11,152
                                        0
                                             (ØK)
                                                       11,152
  FDAPM
                  928
                         (1R)
                                        0
                                             (ØK)
                                                          928
                                                                  (1R)
                                             (ØK)
  DOSLFN
               12,464
                        (12K)
                                                       12,464
                                                                 (12K)
                                        Ю
               3,104
                                                        3,104
  MOUSE
                         (3K)
                                        0
                                             (ØK)
                                                                  (3K)
  UIDE
                  960
                         (1R)
                                        0
                                             (ØK)
                                                          960
                                                                  (1R)
             680,880
                                  639,504
                       (665K)
                                           (625K)
                                                       41,376
                                                                 (40K)
  Free
  Drives Assigned
Drive Driver
                Unit
       FDCD0001
  D :
                  Я
2 drive(s) available.
FreeDOS KEYB 2.01 - (c) Aitor Santamaría Merino - GNU GPL 2.0
Keyboard layout : C:\FDOS\BIN\keyboard.sys:UK [858] (3)
Done processing startup files C:\FDCONFIG.SYS and C:\AUTOEXEC.BAT
Type HELP to get support on commands and navigation
Welcome to the FreeDOS 1.1 operating system (http://www.freedos.org)
C:>>Md PDS
C:>D:
D: \searrow
```

26. Type "dir" at the DOS prompt, and then press "Enter" as shown below:

FDAPM	928	(18)	0	(0K)	928	(18)
DOSLFN	12,464	(128)	0	(08)	12,464	(12K)
MOUSE	3,104	(3R)	0	(08)	3,104	(3K)
UIDE	960	(1R)	0	(08)	960	(1R)
Free	680,880	(665K)	639,504	(625K)	41,376	(40K)
Drives As	signed					
Drive Driv	er Unit					
D: FDCD	0001 0					
2 drive(s)	available.					
FreeDOS KEY	B 2.01 -	(c) Aitor	Santamarí	a Merino -	- GNU GPL 2	.0
Keyboard la	yout :	C:\FDOS\B	IN\keyboar	d.sys∶UX ∣	(8581 (3)	
Done proces	sing start	up files	C:\FDCONFI	G.SYS and	C:\AUTOEXE	C.BAT
Type HELP t	o get supp	ort on co	ммands and	navigatio	on	
Welcome to	the FreeDO	S 1.1 ope	rating sys	teм (http:	//ыны.free	dos.org)
C:\>md PDS C:\>D: D:\>dir Volume in Directory	drive D is of D∶∖	130611_1	728			
C:\>md PDS C:\>D: D:\>dir Volume in Directory UMSMOUNT EX 1	drive D is of D:∖ Œ 2 file(s)	130611_1 7,194 06 27,	720 -11-2013 194 bytes	5:04p		
C:\>md PDS C:\>D: D:\>dir Volume in Directory VMSMOUNT EX 1 0	drive D is of D:∖ Œ 2 file(s) dir(s)	130611_1 7,194 06 27,	720 -11-2013 194 bytes 0 bytes	5:04p free		

You will see the CD / DVD drive, D: of the Guest Operating System has a single "**vmsmount.exe**" file. This is the ISO disc image file we have created and loaded.

27. Type "copy vmsmount.ext c:\" at the DOS prompt, and then press "Enter" as shown below:

3,104 3,104 (3K) MOUSE (3K) 0 (ØK) (1R) (1R) UIDE 960 Й (0K) 960 680,880 (665K) 639,504 (625K) 41,376 (40K) Free Drives Assigned Drive Driver Unit FDCD0001 D : 0 2 drive(s) available. FreeDOS KEYB 2.01 - (c) Aitor Santamaría Merino - GNU GPL 2.0 Keyboard layout : C:\FDOS\BIN\keyboard.sys:UK [858] (3) Done processing startup files C:\FDCONFIG.SYS and C:\AUTOEXEC.BAT Type HELP to get support on commands and navigation Welcome to the FreeDOS 1.1 operating system (http://www.freedos.org) C:>>md PDS C:>D: D:>>dir Volume in drive D is 130611_1720 Directory of D:\ VMSMOUNT EXE 27,194 06-11-2013 5:04p 1 file(s) 27,194 bytes 0 dir(s) 0 bytes free D:\>copy VMSMount.exe C:\ VMSMount.exe => C:\VMSMount.exe D:>>_

28. Type "C:" at the DOS prompt, and the press "Enter" as shown below:

UIDE 960 (1R) 0 (ØK) 960 (18) 680,880 (665K) 639,504 (625K) 41,376 (40K) Free Drives Assigned Drive Driver Unit FDCD0001 D: 0 D: FDCDBOOL 0 2 drive(s) available. FreeDOS KEYB 2.01 – (c) Aitor Santamaría Merino – GNU GPL 2.0 Reuboard layout : C:\FDOS\BIN\keyboard.sys:UK [858] (3) Reuboard layout : C:\FDOS\BIN\keyboard.sys:UK [858] (3) Done processing startup files C:\FDCONFIG.SYS and C:\AUTOEXEC.BAT Type HELP to get support on commands and navigation Welcome to the FreeDOS 1.1 operating system (http://www.freedos.org) C:>>md PDS C:>>D: D:>>dir Volume in drive D is 130611_1720 Directory of D:\ UMSMOUNT EXE 27,194 06-11-2013 5:04p 27,194 bytes 1 file(s) 0 dir(s) 0 bytes free D:>>copy vmsmount.exe C:> VMSMount.exe => C:\VMSMount.exe D://C: C:>>_

29. Type "vmsmount.exe" at the DOS prompt, and then press "Enter" as shown below:

```
D :
       FDCD0001
                   Й
2 drive(s) available.
FreeDOS KEYB 2.01 - (c) Aitor Santamaría Merino - GNU GPL 2.0
Keyboard layout : C:\FDOS\BIN\keyboard.sys:UK [858] (3)
Done processing startup files C:\FDCONFIG.SYS and C:\AUTOEXEC.BAT
Type HELP to get support on commands and navigation
Welcome to the FreeDOS 1.1 operating system (http://www.freedos.org)
C:>>md PDS
C:>D:
D:\>dir
 Volume in drive D is 130611_1720
 Directory of D:\
VMSMOUNT EXE
                     27,194 06-11-2013 5:04p
          1 file(s)
                             27,194 bytes
         0 dir(s)
                                   0 bytes free
D:>>copy vmsmount.exe C:>
VMSMount.exe => C:\VMSMount.exe
D:>>C:
C:\>vmsmount.exe
VMSMOUNT 0.5b - (C) 2011 Eduardo Casino - GNU GPL Ver. 2.0
WARNING: TZ invalid or not defined, times will be shown in UTC.
 Mounting Shared Folders in E:
C:>>_
```

The folder we choose to share from the Host Operating System at **Step 18**, "**C:\PDS**" folder will be mapped to drive **E:** inside the Guest Operating System.

30. Type "E:" at the DOS prompt, and then press "Enter" as shown below:

```
2 drive(s) available.
FreeDOS KEYB 2.01 - (c) Aitor Santamaría Merino - GNU GPL 2.0
Reyboard layout
                 : C:\FDOS\BIN\keyboard.sys:UK [858] (3)
Done processing startup files C:\FDCONFIG.SYS and C:\AUTOEXEC.BAT
Type HELP to get support on commands and navigation
Welcome to the FreeDOS 1.1 operating system (http://www.freedos.org)
C:>>md PDS
C:>D:
D:\>dir
Volume in drive D is 130611_1720
Directory of D:\
VMSMOUNT EXE
                    27,194
                           06-11-2013 5:04p
                           27,194 bytes
         1 file(s)
         0 dir(s)
                                0 bytes free
D:>>copy vmsmount.exe C:>
VMSMount.exe => C:\VMSMount.exe
D:>>C:
C:\>vmsmount.exe
VMSMOUNT 0.5b - (C) 2011 Eduardo Casino - GNU GPL Ver. 2.0
WARNING: TZ invalid or not defined, times will be shown in UTC.
Mounting Shared Folders in E:
C: > E:
E:>>_
```

31. Type "dir" at the DOS prompt, and then press "Enter" as shown below:

```
C:>D:
D:>>dir
Volume in drive D is 130611_1720
Directory of D:\
VMSMOUNT EXE
                     27,194
                            06-11-2013 5:04p
         1 file(s)
                            27,194 bytes
         0 dir(s)
                                 0 bytes free
D:\>copy VMSMount.exe C:\
VMSMount.exe => C:\VMSMount.exe
D:>>C:
C:\>vmsmount.exe
VMSMOUNT 0.5b - (C) 2011 Eduardo Casino - GNU GPL Ver. 2.0
WARNING: TZ invalid or not defined, times will be shown in UTC.
Mounting Shared Folders in E:
C: \searrow E:
E:>>dir
Volume in drive E is SharedFldrs
Directory of E:\
PDS
                            06-10-2013 11:15a
                      <DIR>
                                 0 bytes
         0 file(s)
         1 dir(s)
                     2,147,450,880 bytes free
E: \searrow
```

You will see that the E: drive has a folder called **PDS** which is the folder "C:\PDS" of the Host Operating System.

32. Type "xcopy PDS C:\PDS /E" at the DOS prompt, and then press "Enter" as shown below:

```
C:>>E:
E:>>dir
 Volume in drive E is SharedFldrs
 Directory of E:\
PDS
                            <DIR> 06-10-2013 11:15a
            0 file(s)
                                          0 bytes
                          2,147,450,880 bytes free
            1 dir(s)
E:>>xcopy PDS C:>PDS /E
Copying E:\PDS\DEFAULTS
Copying E:\PDS\MAIN-MIX.CFG
Copying E:\PDS\MAINMIX.CFG
Copying E:\PDS\PDS.EXE
Copying E:\PDS\PDS.HLP
Copying E:\PDS\PRIJR.CFG
Copying E:\PDS\PRIMERJR.CFG
Copying E:\PDS\TCJ1811.CFG
Copying E:\PDS\TCJNR.CFG
Copying E:\PDS\TCJR2010.CFG
Copying E:\PDS\TCJRMIX.CFG
Copying E: PDS\TCJUNIOR.CFG
Copying E: PDS\TEST1.CFG
13 file(s) copied
E: \searrow
```

33. Type "C:" at the DOS prompt, and then press "Enter" as shown below:

```
E:>>dir
 Volume in drive E is SharedFldrs
 Directory of E:\
PDS
                      <DIR> 06-10-2013 11:15a
         0 file(s)
                                  0 bytes
         1 dir(s)
                     2,147,450,880 bytes free
E:>>xcopy PDS C:>PDS /E
Copying E:\PDS\DEFAULTS
Copying E:\PDS\MAIN-MIX.CFG
Copying E:\PDS\MAINMIX.CFG
Copying E:\PDS\PDS.EXE
Copying E:\PDS\PDS.HLP
Copying E:\PDS\PRIJR.CFG
Copying E:\PDS\PRIMERJR.CFG
Copying E:\PDS\TCJ1811.CFG
Copying E:\PDS\TCJNR.CFG
Copying E:\PDS\TCJR2010.CFG
Copying E:\PDS\TCJRMIX.CFG
Copying E:\PDS\TCJUNIOR.CFG
Copying E:\PDS\TEST1.CFG
13 file(s) copied
E:>>C:
C:>>_
```

34. Type "cd PDS" at the DOS prompt, and then press "Enter" as shown below:

```
Volume in drive E is SharedFldrs
 Directory of E:\
PDS
                      <DIR> 06-10-2013 11:15a
         0 file(s)
                                  0 bytes
         1 dir(s)
                     2,147,450,880 bytes free
E:>>xcopy PDS C:>PDS /E
Copying E:\PDS\DEFAULTS
Copying E:\PDS\MAIN-MIX.CFG
Copying E:\PDS\MAINMIX.CFG
Copying E:\PDS\PDS.EXE
Copying E:\PDS\PDS.HLP
Copying E:\PDS\PRIJR.CFG
Copying E:\PDS\PRIMERJR.CFG
Copying E:\PDS\TCJ1811.CFG
Copying E:\PDS\TCJNR.CFG
Copying E:\PDS\TCJR2010.CFG
Copying E:\PDS\TCJRMIX.CFG
Copying E:\PDS\TCJUNIOR.CFG
Copying E:\PDS\TEST1.CFG
13 file(s) copied
E:>C:
C:>>cd PDS
C:\PDS>_
```

35. Type "attrib *.*" at the DOS prompt, and then press "Enter" as shown below:

Copying E:\PDS\PRIMERJR.CFG
Conving E:>PDS>TCJ1811.CFG
Conving E: PDS TCJNR CFG
Conving E: PDS TCJR2010. CFG
Conving E:>PDS\TCJEMIX_CFG
Conving E: PDS/TEST1_CFG
13 file(s) conied
C:>>cd PDS
C:\PDS>attrib *.*
[A] DEFAULTS
[A] MAIN-MIX.CFG
[A] MAINMIX.CFG
[A] PDS.EXE
[A] PDS.HLP
[A] PRIJR.CFG
[A] PRIMERJR.CFG
[A] TCJ1811.CFG
[A] TCJNR.CFG
[A] TCJR2010.CFG
[A] TCJRMIX.CFG
[A] TCJUNIOR.CFG
[A] TEST1.CFG
C:\PDS>_

As shown above, the "R" (read-only) flagged is not set, and the "A" (archive) flag is already set since we are copying from the disk drive, and not from read-only CD / DVD drive. If the read-only flag has been set, you will have to execute the command "**attrib** –**R** +**A** *.*" in order to clear the read-only flag and set the archive flag.

36. To run the PDS application, simply type "PDS.EXE" at the DOS prompt, and then press "Enter" as shown

below:

Copying E:\PDS\PRIMERJR.CFG					
Copying E:\PDS\TCJ1811.CFG					
Copying E:\PDS\TCJNR.CFG					
Copying E:\PDS\TCJR2010.CFG					
Copying E:\PDS\TCJRMIX.CFG					
Copying E:\PDS\TCJUNIOR.CFG					
Copying E:\PDS\TEST1.CFG					
13 file(s) copied					
E:>>C:					
C:>>cd PDS					
C:\PDS>attrib *.*					
[A] DEFAULTS					
[A] MAIN-MIX.CFG					
[A] MAINMIX.CFG					
[A] PDS.EXE					
[A] PDS.HLP					
[A] PRIJR.CFG					
[A] PRIMERJR.CFG					
[A] TCJ1811.CFG					
[A] TCJNR.CFG					
[A] TCJR2010.CFG					
[A] TCJRMIX.CFG					
[A] TCJUNIOR.CFG					
[A] TEST1.CFG					
C:\PUS>PUS.EXE_					

37. You will then be presented with the following screen:



Version History

Version	Date	Author	Checked By	Comments
1	12/06/2013	Seng Seng Du	R&D	