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How to download Windows Research Kernel from Microsoft

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[1](#)[2](#)**MonsterMagnet**

How to download Windows Research Kernel from Microsoft

 Thu Nov 05, 2009 5:56 pm

I thought I would have to look in very strange, smelly, rotten places on the internet to get my hands on the WRK..

Seems I can just download it without any form of verification from Microsoft

Did you guys know this?

You can just click 'Download (now)' and 'I agree' a couple of times, at a certain point it will ask you if you want to verify, just click No or Skip, and there you go

Go here:

<http://www.microsoft.com/resources/shar ... elkit.msp>

Now go have fun hacking it

Co-Worker #1: "A boolean variable has two possible values: **true** or **false**."


Co-Worker #2: "Umm...**true**?"

**Marcello**

Donator



Re: How to download Windows Research Kernel from Microsoft

 Thu Nov 05, 2009 9:39 pm

Didn't work for me



Pwned
Donator



Re: How to download Windows Research Kernel from Microsoft

📅 Thu Nov 05, 2009 9:53 pm

Works for me! Uploaded it on my FTP:

<ftp://82.131.83.237/>

user: researchkernel
pass: student
port: default
SSL: no SSL

Last edited by **Pwned** on Fri Nov 13, 2009 2:17 pm, edited 1 time in total.

[Longhorn Packet 1.21](#) - Solves most of the problems with Longhorn Setup

[\[GUIDE\] How to dump clean/untouched images from CD discs](#)

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MonsterMagnet



Re: How to download Windows Research Kernel from Microsoft

📅 Thu Nov 05, 2009 10:27 pm

Great, at least there's some copies floating around

At first glance, it seems you need to get some other stuff which is normally included on the DVD.



3. There are four components you need to have installed on your machine: Windows Debugger, Virtual PC 2007, virtual machine image of Windows Server 2003 SP1 (with virtual hard drive image), and the **WRK itself including source code**, tools and binaries. Installation of virtual machine with its hard drive image and of WRK boils down to simple copying them to specified directories.

Now, the WRK is supplied. The rest you'll have to hunt down yourself.

Does any experienced Windows guru here know whether you can install a retail version of Windows Server 2003 SP1, slap the kernel resulting from the compilation in there and use the Windows Debugger? Or does one need a special version?

I'm asking because the VHD does not seem to be included.

Co-Worker #1: "A boolean variable has two possible values: **true** or **false**."

Co-Worker #2: "Umm...**true**?"



Pwned
Donator



Re: How to download Windows Research Kernel from Microsoft

📅 Thu Nov 05, 2009 10:33 pm

I think here:

[http://www.microsoft.com/downloads/deta ... layLang=en](http://www.microsoft.com/downloads/deta...layLang=en)

[Longhorn Packet 1.21](#) - Solves most of the problems with Longhorn Setup

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Kenneth

Donator



Re: How to download Windows Research Kernel from Microsoft

📅 Thu Nov 05, 2009 11:04 pm

“ **MonsterMagnet wrote:**

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At first glance, it seems you need to get some other stuff which is normally included on the DVD.

“

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Does any experienced Windows guru here know whether you can install a retail version of Windows Server 2003 SP1, slap the kernel resulting from the compilation in there and use the Windows Debugger? Or does one need a special version?

I'm asking because the VHD does not seem to be included.

...I integrated the WRK into the base NT Build structure, so one can now use build.exe. not nmake directly.



Marcello

Donator



Re: How to download Windows Research Kernel from Microsoft

📅 Thu Nov 05, 2009 11:12 pm

“ **Pwned wrote:**

Works for me! Uploaded it on my FTP:

<ftp://82.131.83.126/>

```
user: researchkernel
pass: student
port: default
SSL: no SSL
```

CODE: SELECT ALL

```
Error: Connection closed by server
Status: Connecting to 82.131.83.126:21...
Error: Connection timed out
Error: Could not connect to server
```

**MonsterMagnet**

Re: How to download Windows Research Kernel from Microsoft

📅 Thu Nov 05, 2009 11:27 pm

🗨️ Pwned wrote:

I think here:

[http://www.microsoft.com/downloads/deta ... layLang=en](http://www.microsoft.com/downloads/details.aspx?displaylang=en)

Seems to be SP2 instead of one. Downloading just to make sure.

@ReactOS: I'm uploading it to somewhere else right now.. Please check back in a couple of minutes.

EDIT: Here it is.. I'm not a RapidShare user though, so it won't be up long.

[http://rapidshare.com/files/302923938/W ... K.zip.html](http://rapidshare.com/files/302923938/W...K.zip.html)

Co-Worker #1: "A boolean variable has two possible values: [true](#) or [false](#)."

Co-Worker #2: "Umm...[true](#)?"

**MonsterMagnet**

Re: How to download Windows Research Kernel from Microsoft

📅 Fri Nov 06, 2009 12:05 am

It just compiled the kernel succesfully, I'm still working on getting Windows Server 2003 SP1 to test it..

Edit: Ooops! Double post! Terribly sorry

Co-Worker #1: "A boolean variable has two possible values: [true](#) or [false](#)."

Co-Worker #2: "Umm...[true](#)?"

**Kenneth**

Donator



Re: How to download Windows Research Kernel from Microsoft

📅 Fri Nov 06, 2009 12:54 am

“ MonsterMagnet wrote:

It just compiled the kernel succesfully, I'm still working on getting Windows Server 2003 SP1 to test it..

Edit: Ooops! Double post! Terribly sorry

build 3800.1807, built by: wrkp, by: daveprobert



MonsterMagnet



“

Re: How to download Windows Research Kernel from Microsoft

📅 Fri Nov 06, 2009 1:01 am

Yeah, saw that Though the documentation says SP1 is needed and SP2 doesn't work.

I just tried that with the evaluation (SP2) and that seems to be correct.

```
Windows could not start because of an error in the software.  
Please report this problem as :  
load needed DLLs for HAL.  
Please contact your support person to report this problem.
```

Co-Worker #1: "A boolean variable has two possible values: [true](#) or [false](#)."

Co-Worker #2: "Umm...[true](#)?"



Marcello

Donator

“

Re: How to download Windows Research Kernel from Microsoft

📅 Fri Nov 06, 2009 1:23 am

Edit: Removed torrent, use Pwned's server instead

Last edited by [Marcello](#) on Fri Nov 06, 2009 1:37 pm, edited 3 times in total.



Yushatak

“

Re: How to download Windows Research Kernel from Microsoft

📅 Fri Nov 06, 2009 1:36 am

I can't believe something like this is freely downloadable from them (although they have made it now require a personal invitation code, but we've already got it now)..

I am building right now with no changes just because I can. xD

Neat. I just created a kernel version 5.2.3800.1807! That was easier than compiling most Linux programs, hah.

I assume that other than the Product Name it's a standard NT5 kernel that can be used on a Server 2003 box (or XP with the proper HALs, etc.)? Has anyone booted it?

This will make for some fun hacks, if so.



Pwned
Donator



Re: How to download Windows Research Kernel from Microsoft

Fri Nov 06, 2009 6:38 am

“ ReactOS wrote:

“ Pwned wrote:

Works for me! Uploaded it on my FTP:

<ftp://82.131.83.237/>

user: researchkernel
pass: student
port: default
SSL: no SSL

CODE: SELECT ALL

```
Error: Connection closed by server
Status: Connecting to 82.131.83.126:21...
Error: Connection timed out
Error: Could not connect to server
```

I now fixed that, sorry.

Last edited by **Pwned** on Fri Nov 13, 2009 2:18 pm, edited 1 time in total.

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James



Re: How to download Windows Research Kernel from Microsoft

Fri Nov 06, 2009 1:27 pm

Yushatak: Yes, Me and OCManage have booted this kernel. Infact, this IS the base kernel to Xbox OS.

**Kenneth**

Donator

**Re: How to download Windows Research Kernel from Microsoft**

Fri Nov 06, 2009 2:53 pm

James wrote:

Yushatak: Yes, Me and OCMange have booted this kernel. Infact, this IS the base kernel to Xbox OS.

With lots of mods to Mm, Io and Ob.

**MonsterMagnet****Re: How to download Windows Research Kernel from Microsoft**

Fri Nov 06, 2009 6:07 pm

Wow! I'm so excited I found this!

I had been googling WRK download and all variations of it and came up empty.
Next I was looking for some code of windows NT, and found this..

I got my own ntoskrnl working on the VHD Pwned mentioned (thanks man!).

Just had to replace hal.dll with halacpim.dll (in \WRK-v1.2\WS03SP1\HALS\x86\halacpim) and it booted flawlessly, winver displays my custom build information, everything's beatifull

I'm still excited over this, this is a complete one-click ' build your own windows kernel' package available for download directly from Microsoft

I don't even know where to begin in the code. I was always planning on getting Windows to run on the Xbox, OCM has already started that project and is IMO much more capable than me.

@OCM: So can I ask you where you got the rest of your Windows 2k3 branch? Or, to be more precise, if it's from a known leak or personnaly aquired by you?

Combined with Windows XP Embedded this could lead to the ultimate Windows mod

Co-Worker #1: "A boolean variable has two possible values: [true](#) or [false](#)."

Co-Worker #2: "Umm...[true](#)?"

**Tootles**

Donator

**Re: How to download Windows Research Kernel from Microsoft**

Sun Nov 08, 2009 12:56 pm

That's cool, I've downloaded it and am going to have a look at it later on.

Being NTOSKRNL, would I be able to do a build to use on my laptop?

Offtopic Comment

But only slightly offtopic, In think.

Why can't Microsoft, instead of making their requirements so steep, issue discs that contain all the software like they do now, but that build the kernel for that machine. Say I get my new Windows 7 disc from the MSDNAA (which I've just got, along with VS2010 b2), but I can't afford to fork out for a new machine, so I decide to just cope. I put the new disc in my P2 box, and when I'm selecting my install options I say I've got a P2 with 128MB of core. Then it partitions my machine, and does a build with some options missed out. When I fire it up, it looks a bit more like XP, but has the newer tools and whatnot, and the libraries so I can run any Windows 7 software.

Long days, and pleasant nights.

Kenneth
Donator



Re: How to download Windows Research Kernel from Microsoft

Sun Nov 08, 2009 6:00 pm

“ MonsterMagnet wrote:

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Combined with Windows XP Embedded this could lead to the ultimate Windows mod

Built it by myself by using WRK, some code I had laying, and WDK and DDK samples, and some... I'd rather not say.

300Mb of binaries FTW!

MonsterMagnet



Re: How to download Windows Research Kernel from Microsoft

Mon Nov 09, 2009 11:57 pm

“ Windows OCMange wrote:

“ MonsterMagnet wrote:

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Built it by myself by using WRK, some code I had laying, and WDK and DDK samples, and some... I'd rather not say.

300Mb of binaries FTW!

Now how the hell is that possible

I'm still pondering about that..

I tried replacing the ntoskrnl and hal.dll of a fresh installation done by me, but that failed Windows file protection kicks in and boots ntkrnlpa insted of ntoskrnl

Btw, how is the Xbox kernel coming along? Has it already been able to boot?

Co-Worker #1: "A boolean variable has two possible values: [true](#) or [false](#)."

Co-Worker #2: "Umm...[true](#)?"



Kenneth

Donator



Re: How to download Windows Research Kernel from Microsoft

📅 Tue Nov 10, 2009 12:28 am

MonsterMagnet, note that I used the original e_isa_up HAL.DLL to boot my kernel.

I need a real XBOX that used to run ReactOS to continue Xbox development.



MonsterMagnet





Re: How to download Windows Research Kernel from Microsoft

Tue Nov 10, 2009 1:26 pm

Yeah, I got a BSOD or HAL error with the original hal, probably because the VHD was SP2 (While wrk is sp1)

Offtopic Comment

~~I have six real xboxes which I'd be more than happy to make available for development purposes, but unfortunately I never got the chance to run ReactOS. They have all been running linux, MS BIOS and custom mini-oses ('hello world'-complexity mostly).~~

~~Is the requirement of running ReactOS due to **freeldr**? Cause I could probably get that running in no time.~~

EDIT: Don't reply here, I reposted in the correct thread..

Co-Worker #1: "A boolean variable has two possible values: [true](#) or [false](#)."

Co-Worker #2: "Umm...[true](#)?"



Yushatak



Re: How to download Windows Research Kernel from Microsoft

Tue Nov 10, 2009 8:51 pm

This is WRK 1.2 - I tried to find info on WRK 1.1 and 1.0 - does anyone know what kernel these are code for (still Server03, but older, I assume?) and where I might get them (mostly for archival purposes)?



Kenneth

Donator



Re: How to download Windows Research Kernel from Microsoft

Wed Nov 11, 2009 12:23 am

Internally it's actually WRK2.0.



MonsterMagnet



Re: How to download Windows Research Kernel from Microsoft

Thu Nov 12, 2009 10:09 pm

And for those who want to run a stable kernel next to your custom one, this trick may come in handy.
Note: Allof this is shamelessly ripped from the MS WRK forum.

Install Server 2003 somewhere (VM, physical pc, doesn't matter).
Copy your kernel (wrkx86.exe) to system32 with it's name intact.
Now look up the hal.dll your S2003 install uses. Right-mouse click, properties, version.
Now look for the section 'internal file name'
You'll have to copy a hal from the wrk, depending on this original filename.
Here's something nice to know which one you need:
(Format: internal file name->WRK hal in C:\WRK-v1.2\WS03SP1HALS\)
halacpi.dll->halacpim.dll
halaacpi.dll->halmacpi.dll
halapic.dll->halmps.dll

Copy the correct hal to system32 as well.

Now add this line to your boot.ini:

CODE: SELECT ALL

```
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="WRK" /kernel=wrkx86.exe /hal=<name of your hal>
```

(Note: if you wanna debug your kernel you'll also have to add those debug switches to this line)

Now you can switch between a normal kernel and your customised üb3r-1337 kernel

Co-Worker #1: "A boolean variable has two possible values: [true](#) or [false](#)."

Co-Worker #2: "Umm...[true](#)?"



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