무료 전자 책

배우기

WinDbg

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#windbg

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1: WinDbg

windbg .

windbg . windbg .

WinDbg WinDbg. .

6.12 6.1 . (<100) , (> 6000) .

, Windows WinDbg Windows . WinDbg 10 Windows 7 . API . WinDbg .

6.12.0002.633	Windows 7 .NET Framework 4	2010-05-21
6.1.7600.16385		2009-07-24
6.2.8400.0	Windows 8 (?)	2012-06-23
6.2.9200.16384	Windows 8 .NET Framework 4.5	2012-11-15
6.3.9600.16384	Windows 8.1	2013-10-17
10.0.10075.9	Windows 10	2015-04-29
10.0.10586.567	Windows 10 , 1511	2015-10-30
10.0.14321.1024	Windows 10 , 1607	2016-07-29

Examples

Microsoft WinDbg 3 .

- WDK (Windows Driver Kit) ,
- SDK ( ) ,
- SDK "Debugging Tools for Windows"

WDK, WinDbg " " .

Codemachine .

. .

WinDbg "Windows " . :

WinDbg	

CDB	**C** onsole **d** e **b** ugger,
NTSD	**N** EW erminal ymbolic **D** ebugger, () **S t**
KD	currrently **k** ernel **d** ebugger
NTKD	**N** EW **t** erminal **K** ernel **D** ebugger

GUI .

WinDbg : https://riptutorial.com/ko/windbg/topic/1833/windbg-

2: DML ( )

Examples

/

.prefer_dml 1 dmlformat .

.prefer_dml 0 dmlformat .

DML ( ) : https://riptutorial.com/ko/windbg/topic/7987/dml-----

3: /

Examples

WinDbg . .

`.logopen`	
`.logclose`	.
`.dump`	( )

. WinDbg . WinDbg .

`.symfix`	Microsoft .
`.sympath`	
`.reload`	
`.symopt`	
`!sym`	
`x`	
`ln`	

( ) ( ).

`.exr`	
`.lastevent`	
`sx`	
`!analyze`	
`!avrf`	

.

| ()	
`lm`	

, ,

.

~	
r	
k	
d *	
e *	
s	
.formats	
?	
u *	
a	
!address	

.

g	/
gu	
p	
t	( )
bp	
bl	

.

.load	( )
.loadby	
.chain	
.unload	

q	.
qd	

.tlist	
.attach	
.create	
.childdbg	
.detach	
.kill	
.restart	.

WinDbg

.prefer_dml	
.effmach	

.cmdtree	.

.hh	WinDbg .

Windbg

.cmdtree .txt . .

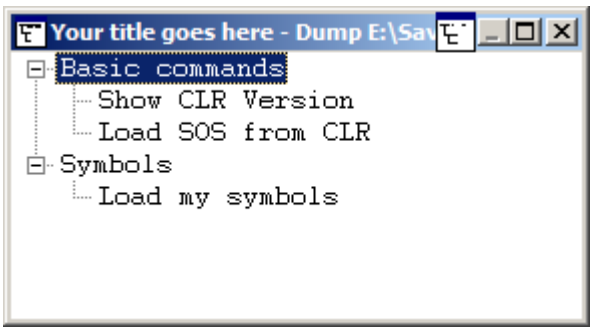
```
windbg ANSI Command Tree 1.0
title {"Window title"}
body
{"Group Heading"}
 {"Name of command to display"} {"command"}
 {"Name of command to display"} {"command"}
{"Group Heading"}
 {"Name of command to display"} {"command"}
```

1. Windbg .
2. {Group Heading} .
3. {Name of command to display} {command} .

```
windbg ANSI Command Tree 1.0
title {"Your title goes here"}
body
{"Basic commands"}
 {"Show CLR Version"} {"lmv m clr"}
 {"Load SOS from CLR"} {".loadby sos clr "}
{"Symbols"}
 {"Load my symbols"} {".sympath+ "c:\DebugSymbols" ; .reload"}
```

UI

```
.cmdtree <path of your .txt file>   .
```



.

/ : https://riptutorial.com/ko/windbg/topic/5384/------

4:

Examples

- .server -
- .clients -
- .endsrv -
- .servers -
- .remote - remote.exe .
- .noshell -

: https://riptutorial.com/ko/windbg/topic/5977/-

5:

Examples

`.exr -1` .

`!analyze -v` .

.NET SOS `!pe` throw .NET .

: https://riptutorial.com/ko/windbg/topic/5389/-

6:

Examples

- ! -
- .process -
- ! peb -
- ! teb -
- ! locks -
- .dump - .

: https://riptutorial.com/ko/windbg/topic/6076/-

7:

Examples

SOS ( ) .NET Microsoft WinDbg . .NET Framework .

`.load x:\full\path\to\sos.dll` . .NET `mscorwks.dll` (.NET CLR 2), `clr.dll` (.NET CLR 4) `coreclr.dll` (Silverlight Universal apps) `coreclr.dll` .

```
.loadby sos clr
.loadby sos coreclr
.loadby sos mscorwks
```

`!help` .

SOSex

SOSex Microsoft Steve Johnson SOS . SOSex .

DLL `.load x:\full\path\to\sosex.dll` .

.NET `!dlk` .

SOSex `!help` .

PyKD

PyKD Python WinDbg . .

DLL `.load x:\full\path\to\pykd.pyd` . PYD Python DLL DLL.

PyKd

PyKD `!help` Codeplex . . Google .

WinDbg . .

`!py` REPL `!py x:\path\to\script.py` . .

```
from pykd import *
```

REPL PyKD . `exit()` `exit()` .

NetExt

NetExt .NET

-

LINQ (`!wselect !wfrom`)
- (`!wdict !whash`)
- ASP.NET / HTTP (`!wcookie` , `!wruntime` , `!whttp`)
-

DLL .load x : \ full \ path \ \ netext.dll.

WinDbg WinDbg :

	.NET (Microsoft)
SOSex	.NET (SOS)
CoSOS	.NET (SOS)
NetExt	.NET ( )
PyKD	
PDE	Windows ( )
PSSCOR	.
SDbgExt	.
MEX	.

CoSOS

CoSOS (SOS) .NET (`!gcview`) (`!wfo !tn`) WinDbg .

DLL `.load x:\full\path\to\cosos.dll` . SOS 32 .

: https://riptutorial.com/ko/windbg/topic/5391/-

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