

WinDbg by examples

Advanced techniques in debugging .Net apps

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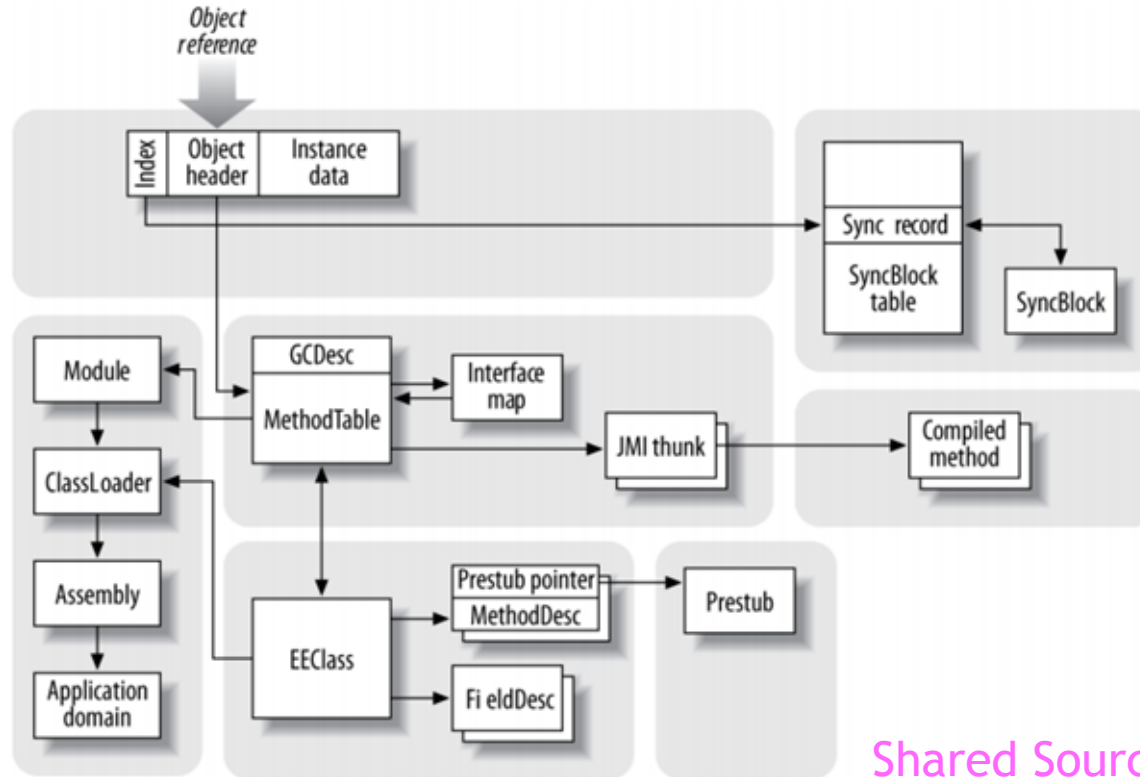
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[illegible]

How to use WinDbg?

- Install WinDbg from WDK or SDK
- Attach to process or open memory dump (crash dump)
- Load extensions: sos, sosex or netext
- Execute commands: !DumpHeap, !ClrStack, !Threads, !runaway, !FinalizeQueue or !Help
- Analyze output

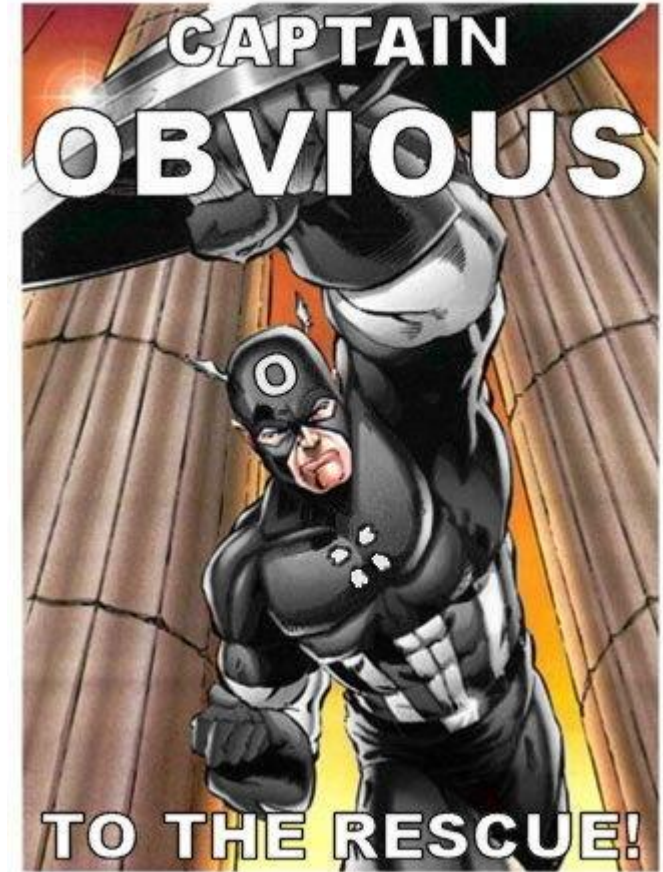
Internal structure of CLR objects in memory



[Shared Source CLI Essentials](#)

Demo

- Case of unexplained redirect
- Case of high CPU usage
- Case of high memory consumption



Summary

WinDbg is useful for:

- Post mortem debugging
- Debugging on production server
- Understanding internals of applications and frameworks

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