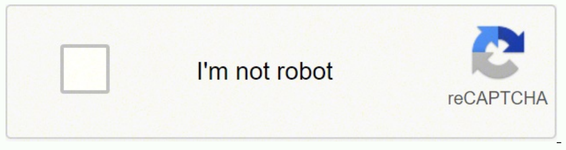

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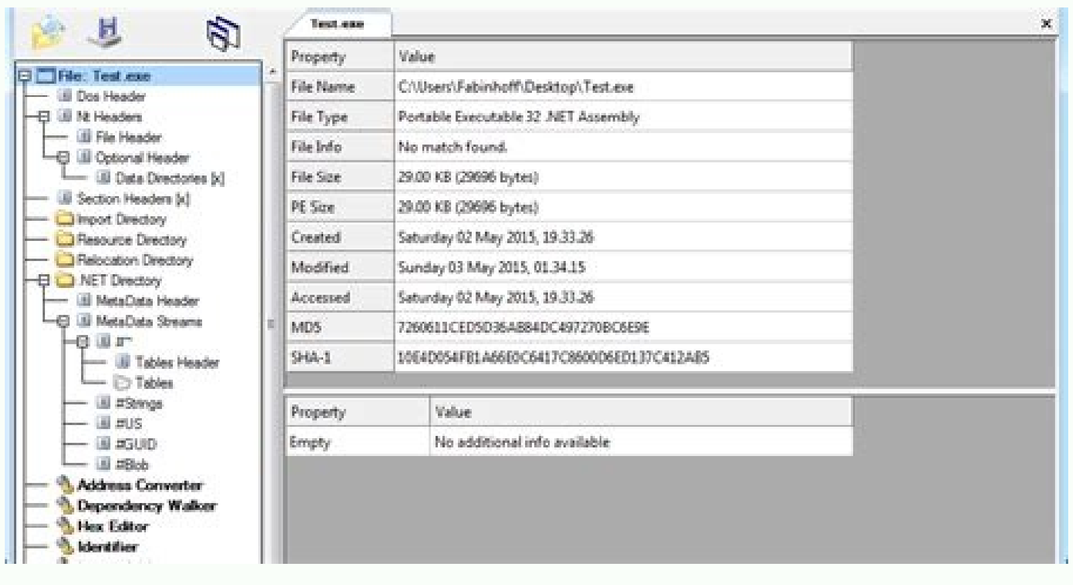

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Open the Target .NET executable file and it will be and then load all the associated binary code. Disclaimer: i, Ajay Kumar, does not intend to teach offensive tactics and does not support any black hat activity. We employ a third-party tool, CFF Explorer, which supports editing .NET binary files, unlike other hexagonal editors. The RVA column usually allows the run time to calculate the MSIL startup memory address, which defines the method containing the test verification, the bytes for each declaration, and its position in relation to the RVA. Prerequisites It is assumed that the user has a thorough understanding and knowledge of binary encoding manipulation and has installed a new copy of the CFF Explorer software to edit the binary code instructions. There we have achieved such crucial tasks by playing with the IL Byte code instruction. This article basically teaches you how to identify the corresponding binary code instructions using the IL deasmator; Then you will learn how to modify that binary code (hexagonal code) using an editor such as CFF Explorer. After carefully examining the IL code defined above, we can find out that the OPODODE IL_001F is the key code, since; IL_001F: / * 28 | (0A) 000 021 * / Call Void [System.Windows.Forms] System.Windows.Forms.Application:: SALIR () IL_0024: / * 00 * / NOP IL_0025: / * 00 * / NOP IL_0026: / * 2A * / Ret Associated byte values are shown in red; We need to line them up in the right sequence. Next, we are developing a C # .NET demo application to illustrate how to bypass the security constraints of a program that performs a calculation or conversion of centigrade to Fahrenheit. The reason for this article is to provide a white hat or defensive knowledge for study or testing. We can perform Operations using CFF Explorer, including resource modification, hexing editing, disassembly, address conversion and, finally, rebuilding or rewriting the file. This marvel wonder It encapsulates the tool packages that could help reverse engineering. We have also learned one of the advanced IL code dumping tactics to get the real line number and the corresponding real byte sequences. // Method starts at RVA 0x2134 We need to perform two tasks to avoid the expiration restrictions of the trial version; Stop or reroute the call of the Aplication.exit () method in the runcarriage account. CFF Explorer includes the following features: Quick HEX Editor Disassembler (X86, X64, MSIL) COMPLETE SUPPORT FOR PE32 / 64 PE Utilities, PE REBUATERY PROCESS LIVING CONTRIPTOR VISUALER LIVING Windows PE View and Memory View Dum .NET INTERNAL RESOURCE EDITORS Resource Editor support for .NET Resources PE Integry Checks Dependency Walker Scan Method Generation Signatures Signatures Signatures Retriever Binary Code Patch Now it’s time for action. As you can see in the image below, CFF Explorer reveals almost all the details about this executable file, such as its name, file type, development environment, file size, PE size and hashing format. Basically, RVA represent the segment address for the method (TrialexPiredCheck), which includes the entire logic for security restrictions. ABSTRACT This article showed how to edit or patch binary code instructions without having the actual source code. Our main interest is “damage converter”, which is located in the middle left panel. That’s why we unmounted that executable file on the IL code above to find the value of RVA and the binary code sequences. After clicking the OK button, it automatically downloads the application. However, the unmounted or decompiled file, produces a lot of IL code AVR AVR ne azneimoc odot©Ãm lE //{ deganaM LIC)(kcehCderiPxelairT dioV aicnatsnI gisybediH etavirP dohteM.]PPC[:arenam etneiugis al ed ,)(klaceriPxelairT odot©Ãm led etneidnopserroc ogid³Ãc le rartnocne se n³Ãicapucoerp lapicnirp artseun orep oreinegni o ,orenid ed ogla ereiuqer ,otseupus rop ,euq ,)atelpmoc n³Ãisrev(otcudorp led evalc al erpmoC .oiranib lanogaxeh rolav ©Âuq ed elbasnopser se n³Ãiccurtsni ©Âuq erbos n³Ãicamrofni anugnin somenet on euqrop airanib n³Ãiccurtsni al etnematcerid racifidom o ralupinam se sajelpmoc y sadacitsifos saerat sal ed anU .lit¡Âtrop elbatuceje anretni arutcurtse al atsiv ed redrep nis orep , ten. oiranib ovihcra le arap otelpmoc etropos noc EP ed n³Ãicide al arap oda±Âesid euf ,ograbme nis ,FFC ed rodarolpxe lE .sorto y oluc¡Âc ed n³Ãisrevnoc ed ogid³Ãc le ne esratselom somatisecen oN .sovihcra ed n³ÃicacifidoM EP ++ CV / ++ C / C olos razilaer nedeup eS .oiranib ogid³Ãc ed n³Ãicide al noc selbitapmoc nos on ,ORPADI y GBDYLLO omoc ,selbinopsid airanib n³Ãicide o lanogaxeh ed n³Ãicide ed satneimarreh ed rap nu yah euqnuA rodarolpxE PFC]PPC /[kcehcderipxelairT : :odot©Ãm led n³Ãisrevnoc al ed niF // }TER / * A2 * / :6200_LI ¬â ¢Ã 01,9 :32,32 aenÃl .pon / * 00 * / :5200_LI ¬â ¢Ã 41,31 :22,22 aenÃl .pon / * 00 * / :4200_LI)(RILAS :: noitacilppA.smroF.swodniW.metsyS]smroF.swodniW.metsyS[dioV adamall / * 120000)A0(| 82 * / :¬â Ã ¬â ¢Ã ¬â ¢Ã 63.71 :12,12 aenÃL .POP / * 62 * / :e100_LI)gnirtS ,gnirtS(wohS :: xoBegasseM.smroF.swodniW.metsyS]smroF.swodniW.metsyS[tlusergolaiD.smroF.swodniW.metsyS]smroF.swodniW.metsyS[epyTeulaV a emall / * 020000)a0(| 82 * / :9100_LI "!!!! atrela ed ejasneM !!!!" RTSDL / * AE0000)07(| 27 * / :¬â Ã ¬â ¢Ã "¬â Ã !odacudac ah oyasne led n³Ãicarud aL¡Â" rtsdl / * 140000)07(| 27 * / :F000_LI ¬â ¢Ã 18,71 :02,91 aenÃL .pon / * 00 * / :e000_li 6200_li s.eurtrb / * 81 d2 * / :C000_LI 0.COLDL / * 60 * / :B000_LI 0.COLTS / * A0 * / :A000_LI QEC / * 10ef * / :8000_LI 0.4i.cdl / * 61 * / :7000_li deripxairtsi :: noisrevnoc.tiehnerhaf loob dlfdl / * 400000)40(b7 * / :2000_li 0.gradl / * 20 * / :1000_LI ¬â ¢Ã 23,31 :71,71 aenÃl .pon / * 00 * / :0000_LI ¬â 01* / :61,61 aenÃL .)0000 $ 4 $ SC LOOB]0[(tini slacoL. 2 kcatsxam. Logical implementation to avoid security controls. This instruction indicates that this method begins from the direction address In the gross hexal bytes. Summary The objective of this article is to show how to avoid several security controls by modifying binary code directly, instead of source code, by using CFF Explorer. After compiling with success this source code, the CLR produces its executable file. Therefore, using this value 0x2134, we can skip directly to the Logical Safety Restriction Code, as shown below; To divert or eliminate the call to the application. My exit () We have to identify the associated bytes in the hexadecimal code that are responsible for executing the entire application.exit (). After understanding how this works, we can make reverse engineering easily the binary code .NET according to our requirement. The code for the implementation of the test expiration is: [CPP] Public Partial Class Conversion: Form {BOOL IstryExpiRed = True; public conversion () {initializecomponent (); } Private VOID TRIAEXPIRREDCHECK () {IF (lstryExpired) {messagebox.show (@ Â »Trial Duration You have expired! Copy FREH installed» Â », !!!! Alert message !!!! Â»); Application.exit (); }} private void conversion_load (sender object, eventags e) {trialExpiredcheck (); } #Region Private Call Code Void Button1_click (Sender Object, Evenargs E) {Double C = convert.todouble (textbox1.text); Double F = (C * 9/5) + 32; label3.text = f.Testring (); } #endregion} [/ CPP] Here, after carefully reviewing the code, we can figure out easily that the entire trialExpiratedcheck () is responsible for the expiration of the product. Finally, save the modification you have made to the binary code file, since it also provides the functionality of rebuilding the executable file. All we have to do is modify the binary code of this product to avoid security restrictions using the .NET Ildasm.exe; we have already a couple of examples of manipulation using ILDASM ³ the previous articles in this series of reverse engineer but, from the point of view of this article, the The paper is slightly different. During the duration of the test, the user interface prototype of this product would be like this: but the provider of this product launches its beta version and only offers a free trial version in the market that works during a given period. Once this duration is completed, it will automatically expire and an alert message will flash on the screen. The alert message is here: now, there are two options that will allow you to continue using the product. Because the value of the Boolean variable is true, if the CONSTRUCT CONDITION always executes true and an alert message box will be flashed. IL_0002: / * 7B (04) 000Â 004 * / LDFLD BOOL Fahrenheit.Conversion :: IstryExpired IL_0007: / * 16 * / ldc.i4.0 IL_0008: / * FE01 * / CEQ IL_000A: / * 0a * / stloc.0 IL_000B: / * 06 * / LDLOC.0 IL_000C: / 2D 18 * / BRTRUE.S IL_0026 The actual byte sequence would be the following; Then, this is the trick: if we eliminate this condition control by replacing the value of the IL_00C 2D instruction with 2C, then the IF construction is never running and no alert message box does not appear. up

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