

Forum:[Hack Forums](#)

Thread: [Malware Development Languages](#)

emperorwurm - June 13, 2024, 4:04 pm

Hello this would be my first post aside from my greets post. I would like to ask what are the best or most suitable programming languages for malware development for starters? Maybe making a RAT or botnet.

I have many languages under my belt already such as most .NET languages (VB, C#, ASP and etc), C/C++, x86 Assembly with NASM and FASM, PHP, JavaScript, Python, Rust and a lot more based on personal experience. I hope I don't get hated and thanks for replying if you do give a reply.

happygonutty - June 15, 2024, 5:43 pm

(Jun 13, 2024 04:04 PM)emperorwurm Wrote: [\[CITE\]](#) Hello this would be my first post aside from my greets post. I would like to ask what are the best or most suitable programming languages for malware development for starters? Maybe making a RAT or botnet.

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emperorwurm - June 15, 2024, 9:56 pm

(Jun 15, 2024 05:43 PM)happygonutty Wrote: [\[CITE\]](#) You already have the answers in your post my friend. I think you just need to go find existing projects, reverse them or make them more stronger. Also, we have the market section where you could give some RATs, botnets or any tool you need a try. Some vendors also give free vouchers so don't hesitate to contact them.

For real? I dunno. I still think I lack of what is needed. ?

happygonutty - June 16, 2024, 6:01 am

(Jun 15, 2024 09:56 PM)emperorwurm Wrote: [\[CITE\]](#) For real? I dunno. I still think I lack of what is needed. ?

Yes just strive more and do some more research then in a couple of weeks (or even days) then you might achieve this feat. You are already an experienced developer so I believe that you won't have problems in learning and won't struggle. ?

secret_code - June 16, 2024, 7:56 am

im finding hard to believe you have all that langs under your belt and don't know which one is better for MD

emperorwurm - June 16, 2024, 8:18 am

(Jun 16, 2024 06:01 AM)happygonutty Wrote: [\[CITE\]](#) Yes just strive more and do some more research then in a couple of weeks (or even days) then you might achieve this feat. You are already an experienced developer so I believe that you won't have problems in learning and won't struggle. ?

Ok thanks! I will do that [happygonutty](#)!

(Jun 16, 2024 07:56 AM)secret_code Wrote: [\[CITE\]](#) im finding hard to believe you have all that langs under your belt and don't know which one is better for MDI do freelancing that is why I know a bunch but I have not yet used these languages for personal gain so I am finding ways on how to do it with malware. The reason? For personal purposes and just so I could have the feeling of achievement. ?

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(Jun 16, 2024 08:18 AM)emperorwurm Wrote: [\[CITE\]](#) Ok thanks! I will do that [happygonutty!](#)

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well, it's nice to see people getting interested in MD recently, before proceeding, remember this is a long path, you probably might fall into the category of 95% of failed malware developers, which start with the idea and abort it at half way because they realize is not all bread and butter, im saying this because i want you as anyone else interested, to make sure you know what you going to do, and what are the pros and cons of this, you said you have many langs under your belt, what about core concepts such as cryptography and anti-viruses? have you got any knowledge on those? you must first make sure you have a very strong understanding of cryptography and then AV evasion techniques, without even one of those, you will be toasted, malware dev is not just about coding, you first must understand how AVs work just like folks writing AV software otherwise you stand no chance in evading those, for example, if you dont even know the difference between polymorphic and metamorphic malware, you might need to study malware first from here

https://defcontoronto.com/wp-content/uploads/2022/10/malware_development_for_dummies_Jake_Adelson.pdf, and cryptography from here

<http://repository.futminna.edu.ng:8080/jspui/bitstream/123456789/12180/1/CST903%20ADVANCED%20CRYPTOGRAPHY.pdf>, you have a pretty good programming experience since you mention assembly and c++, this was a professional advice given from someone working in the field for more than 15 years, 5 years in advanced cryptography and steganography and 8+ years of AV evasion experience, you can thank me later

emperorwurm - June 16, 2024, 9:17 am

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Nahh I am thanking you now. As an experienced developer who wants to dabble with malware development, that is the sole reason why I am here and thanks for being nice and sharing your thoughts and insights about malware development. I will look into the links you have sent later on but I would consider the techniques you have suggested and learn more. I forgot who posted this but I saw this on some thread just a few hours ago....

<https://github.com/lolsecs/LolSec>

And from that account and have been looking at 2 PDFS. Botnet Bible and Botnet Tutorial and currently studying the other contents of that post. If you have more resources please do share, I am more than willing to learn and willing to exchange knowledge and techniques as well in programming.

secret_code - June 16, 2024, 9:22 am

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to be honest, you shouldn't jump into something named with "bible" as the name says, it will be overwhelming, as you're a beginner, you need to start from something more user-friendly, have a look at the links i shared with you, be careful what you start with, there are great chances you might struggle or get down to your knees while learning those and eventually abort, the resources you stated are good after you have learned the basics and understood the building blocks, you can't jump into something specific without knowing the generics first, when people do that, they usually end up only leaving without results...

(Jun 16, 2024 06:01 AM)happygonutty Wrote: [\[CITE\]](#) Yes just strive more and do some more research then in a couple of weeks (or even days) then you might achieve this feat. You are already an experienced developer so I believe that you won't have problems in learning and won't struggle. ?

i doubt that, honestly, if you do malware development you will also understand how long is the way from just coding to malware, malware is about 70% experience, 20% skills and 10% coding

emperorwurm - June 16, 2024, 11:24 am

(Jun 16, 2024 09:22 AM)secret_code Wrote: [\[CITE\]](#) to be honest, you shouldn't jump into something named with "bible" as the name says, it will be overwhelming, as you're a beginner, you need to start from something more user-friendly, have a look at the links i shared with you, be careful what you start with, there are great chances you might struggle or get down to your knees while learning those and eventually abort, the resources you stated are good after you have learned the basics and understood the building blocks, you can't jump into something specific without knowing the generics first, when people do that, they usually end up only leaving without results...

I have already compiled most of the source codes I obtained from GitHub written in C# and I am looking for more challenging source codes aside from what I have. I am not that overwhelmed at all since I always read lots and as I say I am a very experienced developer already especially in software development so it won't be a problem, its just this time I get my hands in malware development.

happygonutty - June 16, 2024, 4:53 pm

Just keep moving forward and don't hesitate to post threads and ask questions to everyone OP. We don't bite and we are totally nice.

Like what secret_code just says, you already have way a lot under your belt and he has already given you what you need which is a path.

Py_Dev - June 18, 2024, 12:57 am

Delphi is also solid. Lower the level, the better.

emperorwurm - June 18, 2024, 5:20 am

(Jun 18, 2024 12:57 AM)Py_Dev Wrote: [\[CITE\]](#) Delphi is also solid. Lower the level, the better.

Delphi is kinda low level but is it still used? I did research few nights ago and they say writing in Delphi makes it stronger and more undetectable since its very rare. Most of the malware I see in news are progressing to Go, Rust and Nim. Are there latest threats written in Delphi?

secret_code - June 18, 2024, 6:08 am

(Jun 18, 2024 05:20 AM)emperorrworm Wrote: [\[CITE\]](#) Delphi is kinda low level but is it still used? I did research few nights ago and they say writing in Delphi makes it stronger and more undetectable since its very rare. Most of the malware I see in news are progressing to Go, Rust and Nim. Are there latest threats written in Delphi?

don't, there are 1k+ reasons to avoid using delphy for malware development[exe size, abstraction, limited low-level calls, stealth issues, etc...), just go for langs such as C/C++, they are still choice n1 for folks writing malware professionally

happygonutty - June 18, 2024, 1:12 pm

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There are some truth in what you are trying to say and yes C/C++ would always still be the number 1 choice but for malware development, your malware has to be unique. Either you use an unusual language for its uniqueness or you have an outstanding crypter that could make your malware undetectable. A good example would be those in the market section my friends.

secret_code - June 18, 2024, 2:11 pm

(Jun 18, 2024 01:12 PM)happygonutty Wrote: [\[CITE\]](#) There are some truth in what you are trying to say and yes C/C++ would always still be the number 1 choice but for malware development, your malware has to be unique. Either you use an unusual language for its uniqueness or you have an outstanding crypter that could make your malware undetectable. A good example would be those in the market section my friends.

yeah... sorry my english is not so sharp atm, but is not that bad right? :)

happygonutty - June 18, 2024, 2:14 pm

(Jun 18, 2024 02:11 PM)secret_code Wrote: [\[CITE\]](#) yeah... sorry my english is not so sharp atm, but is not that bad right? :)

Yeah its all good and I can understand you my friend. English is not my mother tongue either, just happen to be using it since birth since I am in a country that English is widely and MUST be used in order to get work and good projects. ?

secret_code - June 18, 2024, 2:15 pm

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where are u from ?

happygonutty - June 18, 2024, 2:16 pm

(Jun 18, 2024 02:15 PM)secret_code Wrote: [\[CITE\]](#) where are u from ?

Its a mystery! Hahahaha. I don't like sharing personal information in the internet and never will so I am very sorry. ?

secret_code - June 18, 2024, 2:40 pm

(Jun 18, 2024 02:16 PM)happygonutty Wrote: [\[CITE\]](#) Its a mystery! Hahahaha. I don't like sharing personal information in the internet and never will so I am very sorry. ?

oh yeah i understand i respect your privacy

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there latest threats written in Delphi?

Well its all objective. It all depends what the malware is. If you are creating a botnet, delphi aka object pascal has cross platform ability. From windows, macos, ios, and android using firemonkey framework it could be very useful in that aspect. If you are developing malware to target windows, c/c++ will always be the best option. Many crypters use delphi stubs.

Governor - June 19, 2024, 6:12 am

(Jun 18, 2024 12:57 AM)Py_Dev Wrote: [\[CITE\]](#) Delphi is also solid. Lower the level, the better. Delphi is indeed decent. You can make GUI's and Kernel drivers with it

Personally I am using the OG's C, C++. I write EFI drivers in x86 Assembly, rest mainly a mix out of C and C++

robot-2007 - June 19, 2024, 3:07 pm

vere gooooooooooooooooooooo

Sajuuk - June 20, 2024, 7:26 pm

Hmm... there certainly are a lot of tutorials on how to make every kind of malware with C++. Surely that's not the best language to use for projects of the sort. There must be another way. ?

I Roll the Nickles - July 17, 2024, 1:35 pm

(Jun 16, 2024 09:13 AM)secret_code Wrote: [\[CITE\]](#) well, it's nice to see people getting interested in MD recently, before proceeding, remember this is a long path, you probably might fall into the category of 95% of failed malware developers, which start with the idea and abort it at half way because they realize is not all bread and butter, im saying this because i want you as anyone else interested, to make sure you know what you going to do, and what are the pros and cons of this, you said you have many langs under your belt, what about core concepts such as cryptography and anti-viruses? have you got any knowledge on those? you must first make sure you have a very strong understanding of cryptography and then AV evasion techniques, without even one of those, you will be toasted, malware dev is not just about coding, you first must understand how AVs work just like folks writing AV software otherwise you stand no chance in evading those, for example, if you dont even know the difference between polymorphic and metamorphic malware, you might need to study malware first from here

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<http://repository.futminna.edu.ng:8080/jspui/bitstream/123456789/12180/1/CST903%20ADVANCED%20CRYPTOGRAPHY.pdf>, you have a pretty good programming experience since you mention assembly and c++, this was a professional advice given from someone working in the field for more than 15 years, 5 years in advanced cryptography and steganography and 8+ years of AV evasion experience, you can thank me later

Thanks for sharing these resources. Very useful for someone trying to learn.

hublabuddah - July 18, 2024, 12:02 pm

(Jun 20, 2024 07:26 PM)Sajuuk Wrote: [\[CITE\]](#) Hmm... there certainly are a lot of tutorials on how to make every kind of malware with C++. Surely that's not the best language to use for projects of the sort. There must be another way. ?

Ideally you would use pure C without CRT. C++ for malware is strange choice

Disease - July 18, 2024, 1:17 pm

(Jul 18, 2024 12:02 PM)hublabuddah Wrote: [\[CITE\]](#) Ideally you would use pure C without CRT. C++ for malware is strange choice

As with any sort of development it's a matter of considering what you're familiar with, what's convenient, and what's most capable.

secret_code - July 18, 2024, 1:49 pm

(Jul 18, 2024 12:02 PM)hublabuddah Wrote: [\[CITE\]](#) Ideally you would use pure C without CRT. C++ for malware is strange choice

No c++ is not actually strange option :), in fact i've seen more malware written in C++ instead of C, but the point here is another,

C and C++ are actually both well balanced, but "in my opinion" there is no better then CCA(C, C++, Assembly) intersections, for malware actually it might be better to use CCA combinations, i guess because each one of C, C++ and assembly are better in different areas, so you should combine them, selecting the one that better does the job in that area, one example might be:

assembly = initial stubs, steganography injection, etc...

C = where assembly size hits threshold

C++ = where modular code or OOP is better to use, since C does not provide OOP, C++ is better here.

so seems to me that in fact one without the other is kind of worst played... for the OP, don't stuck with one language, pick the best one that does the job!

(Jul 18, 2024 01:17 PM)Disease Wrote: [\[CITE\]](#) As with any sort of development it's a matter of considering what you're familiar with, what's convenient, and what's most capable.
this one is the answer... nice take!

HALx86 - July 20, 2024, 10:29 pm

I think Golang has a lot of opportunity in malware. The language can compile down for use on Windows or Linux. There's a lot of libraries to use to speed up development. It makes difficult things like parallel programming and encryption easy. Plus it looks horrible when reverse engineering, even before using go tools like Garble to add obfuscation.

Just adding alternatives for those who don't want to do C or C++ :)

Lookdadon - August 18, 2024, 6:53 pm

low programming languages

c# is just completely handicaped in this point of view?