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RE & MA Roadmap

How to Enter

In the beginning, you must know more about Cyber security, its tracks, also know the stages of Defending, you need to answer Is Malware Analysis is suitable for you or not?

You need to search a lot and listen to:

You must search & there are some helpful resources:

- [Nakerah Podcast](#)
- [Day in X life](#)
- [Cyber Talents Webinars](#)
- [Radio Hack Podcast](#)
- Wait for CAT Podcast

This [Playlist](#) will answer most of Ur questions.

Motivation

I need u to listen to [that video](#) repeatedly, you see how they describe us, you see our situation, The most motivating thing for you is to hear that Israel as one of the top 5 powerful cyber armies, So you can make a change.

Watch [Zero Day](#) Documentary.

Roadmap

Beginning

- 1) Programming
- 2) Arch & Assembly
- 3) OS Basics

Level UP

- 1) Practical Binary Analysis
- 2) Practical Reverse Engineering
- 3) Practical Malware Analysis
- 4) The Art of Assembly Language
- 5) OS
- 6) OALABS
- 7) Create your own Technical Blog.

Advanced

still not finished.

Helpful Links

It would help you during the journey.

NOTE

Always Remember...all these links, methodologies, checklists, courses, and articles are just a recommendation from me BUT those are not the only way. There is nothing called one and only one methodology or roadmap not by me not by anyone. Finally Remember, you can create your own methodology and roadmap...just choose the suitable for you. [OBJ]

Beginning

Programming

1. C/C++

You must know well what pointers/memory allocation is and become more understanding of low-level concepts in programming.

Here some sources could help you out:

1) [Neso Academy](#) 

2) [Youssef Shawky](#) 

2. Data Structure & Algorithms:

Along with your journey get involved with Problem Solving Communities and improve your skills with programming and data structures & algorithms.

Arch & Assembly

This will help you understand the basics of low-level programming and help you with your analytical skills.

1. [Ahmed Sallam](#) 

2. [OST](#) 

OS Basics

Feel free to watch any of these playlists, it is not mandatory any of these also.

You just need to know the basics of Operating System.

1. [Ahmed Hagag](#) 

2. [Ahmed Younes](#) 

3. [Tami Sorgente](#) 

Level UP

Get Your Hands Dirty!

Practical binary analysis

First three chapters from [it](#)

Practical Reverse Engineering

First two chapters along with the basic analysis (CH1-CH3) from PMA.

The [BOOK](#)

Practical Malware Analysis

At this point, you need to commit yourself to this book and never take a long break from it. The long period you can go is two weeks, it is for your own good.

1) [Practical Malware Analysis](#)

2) Mahara Tech:

a) [Malware Analysis Fundamentals](#) chapters 1:3 in PMA

b) [Reverse Code Engineering](#) chapters 4:7 in PMA

c) [Advanced Malware Analysis](#) chapters 8: -- in PMA

The Art of Assembly Language

Two chapters from [art of assembly](#) along with chapter 4 in [PMA](#)

OS

Windows Internals

After chapter 7 in PMA, take a short break and get well-known about windows internals.

[This course](#) would take at most two weeks from you.

[2001 Windows Internals](#) after finishing PMA, you could know more about internals from this course.

OS

Develop your knowledge about OS and its concepts.

[Play list](#) 

[Operating Systems concepts](#) 

“OALABS” YouTube Channel

Watch the live shows on this YouTube Channel and get more involved with analysis and improve your skills.

[Link](#) 

Create Your Own Technical Blog

After this long journey you must do some analysis and you need to brand yourself and your work plus your skills. This step helps you out doing this.

Down  there helpful links would help you out.

Advanced

still not finished.

Helpful Resources

[Drive Books](#) 

[IDA Pro](#) 

Technical Blogs and Reports

Companies

[Threatmon](#)

[Cloud Sek](#)

[Infosec Institute](#)

[Cyber Solutions](#)

[Vmray](#)

[Blogs Jpcert](#)

[Cyber Geeks](#)

[Zscaler](#)

[Nextron Systems](#)

[Mssp Lab](#)

[Cyble](#)

Egyptians

[Abdallah Elnoty](#)

[CSgae](#)

[Nidal Fikri](#)

[Abdallah Elshinbary](#)

[Aziz Farghly](#)

[Amr Ashraf](#)

[Gameel Ali](#)

[Mohamed Ashraf](#)

[Abdelrahman Eldawi](#)

[0x7ORVS](#)

[JOEZID](#)

Not Egyptians

[RUSSIANPANDA RESEARCH BLOG](#)

[dr4k0nia](#)

[Exploit Reversing](#)

Thanks

Also remember, you can always search for more alternatives or even make your own RoadMap that suits you. As you can see here, this is a pretty nice roadmap made by a fellow CATian!

Best Wishes

Head of RE&MA circle

[Khaled Kayed](#)

Great Thanks To

[Nidal Fikri](#)

[Michelle Khalil](#)

[Yahya Elsify](#)