



## ENIGMA HUNTERS

### KAVACH – 2023 (P.S. : KVH-014)

#### (Work Distribution)

Name	Required Expertise
M.LAKSHMIPRASANNA	Packet Sniffing Tools
Anuj kandel Sharma	AES256 Analysis all topics ( Related Papers)
Sambandha Bhattarai	Erlang language and AES256
Shirini J	Reverse Engineering tools
Asadur Zaman Nabin	Erlang language and WeChat expert
Durjoy Majumdar	Team collaboration, Project management, resource gathering and sharing, Overall project co-ordinator.

## Detail Explanation

- 1. M.LAKSHMIPRASANNA :-** There are multiple tools to do packet sniffing like Wireshark, Mitmproxy, Burp Suite, dnschef etc. Find out which sniffer will work best for our project and learn that deeply. Get idea about other tools. (Learn Burp Suite also. We will use that and you are going to be our Burp Suite expert)

2. **Anuj kandel Sharma :-** You are our encryption expert. So we expect you to learn AES256 very deeply as till we know this is the encryption used by WeChat. Kindly research a bit about WeChat and get to know if there is any other possible encryption method. Kindly learn that. Learn decryption methods too. Follow related courses and research papers.

Recommended book – Cryptography and Network Security Principles and Practices by William Stallings  
Cryptography Engineering Design Principles and Practical Applications by Niels Ferguson.

3. **Sambandha Bhattarai:-** Get familiar with Erlang to understand available open-source codes.  
In addition work with Anuj for AES256.

4. **Shirini J:-** You are our Reverse Engineering expert and the whole project's success directly depends on you. We want you to learn Reverse Engineering tools. One of the most popular open-source tools is Oxygen Forensic Detective. You can find out other useful tools which will be useful and learn. Find our research papers related to decrypting AES256 and WeChat and get to know the tools used by them. If you think that tool will help us learn that.

5. **Asadur Zaman Nabin:-** You are our WeChat expert. Learn the working method of WeChat. Review their working policy, data collection policy, terms and conditions and etc. Find out how the app work on phone and desktop on different OS. In addition, get expertise in Erlang to understand the codes of OpenWeChat (Open source project to explore WeChat). Work with Sambandha about Erlang.

6. **Durjoy Majumdar:-** We want you to manage the team's progress, gather related resources, and share in the group. In

addition, get knowledge about all the topics needed for the project so that you can co-ordinate the overall progress.

Resources will be forwarded to the group.

Whenever anyone is getting any resources just feel free to share.

**Note – Everyone summarizes their learning and shares it in the group so that others can just go through that and get ideas about that topic. It will help us to work efficiently and learn efficiently.**