

Training Report for the Three Day Training Workshop **on** **Ethical Hacking & Cyber Security Awareness**

Name of the Training : Ethical Hacking
Sponsoring Agency : Zoho
Implementing Agency: Akoo Agency International
Venue : Akoo Conference Hall
Total Participants : 20 persons
Total Duration : 25 hours, spread over 3 days
Reported by : Akoo Reporting Team.

Introduction:

The report on hand is a narration of the events and proceedings of the training workshop on Ethical Hacking that was conducted by Akoo Agency International (AAI) for the cyber department staff of KAI Company. This report provides an overview of workshop. The training was conducted at the AAI premises and the workshop was conducted over three days. The training was organized as per the request from KAI for provision of the workshop for its Cyber department staff.

About Participants:

The participants of the program, who are well experienced in the field of information security, were introduced by the Manager of the KAI.

Time Schedule:

The three day workshop was conducted over three days 12th, 13th and 14th of March 2020. Each day the session started at 9:00 a.m and ended on 04:00 p.m. Each day there were two ten minutes coffee breaks; at 10:20 am and on 2:20 pm. There was an hour lunch break at 12:30 p.m. daily.

Training Goal:

In an effort to train the staff in ethical hacking and make the participants aware of various application frameworks and spread awareness on cyber security, the three day workshop was conducted. For effective ethical hacking, one should know the mind-set of the user too, hence the participants were trained on the Social Engineering. The main goal of the training was to develop interest in cyber security research and advance in cyber security education.

Workshop Contents:

- 1) Ideal state of cyber security education
- 2) Cyber security education research gaps
- 3) Social Engineering
- 4) Bug cloud platforms
- 5) Autospy 3.1.3 for accessing data
- 6) E-mail Spoofing
- 7) Valedictory Function.

Training Procedures In brief:

The training session started with introduction of trainee with the participants which was followed by every individual participant then introducing himself/herself by mentioning their name and their position in the organization. There was a brief pre-test conducted by Akoo Agency which had few questions and was aimed at analyzing the trainees' existing knowledge of the subject matter and how much they already aware of about some of the topics which are to be discussed in the training workshop.

The trainer, in consultation with the trainees, set the basic guidelines to be applicable during the training days in order to maintain a productive and organized training program. The trainees agreed upon several guidelines for the training like putting their phones on silent, coming on time, respecting others' ideas, not interfering when others talk etc. These guidelines were noted down on a flip chart and pasted to the wall for the rest of the workshop.

Then the participants were asked about their expectations from the training and what they expected to learn during the three days. Each trainee shared their views which they also noted down in the space provided in their work books.

These were followed by a keynote lecture about the basics of Ethical Hacking, by Mr.ABC. He explained the various types of hackers and covered the necessity of hats and security hackers. He had covered the conception regarding OWASP TOP 10 non-profit organization which are dedicated to provide unbiased, practical information about application security.

There used to be a tea break every morning at 10:30 am which lasted for fifteen minutes and then a lunch break for one hour at 12:30 pm.

In the second phase of session, the core part of Hacking and case studies were covered. It includes the real time practice of Injections which mainly includes SQL Injection, Server Side Injection, Command Injection and HTML Injection in detail. To illustrate the topic of broken authentication and session management, he explained the practical aspects of insecure login forms, password attacks, session management and session management on administrator portals. The session was followed by vulnerability assessment and software penetration testing.

The second day and third days were about training the participants in social engineering and basics of ethical hacking by briefing on concepts of HTML, PHP that make it easy for exploiting the vulnerability in the code. The participants were briefed on various types of spyware attacks and possible solutions of the same. There was a session on D-Dos Attacks where participants were actively involved in. There were regular assessment of topics covered to test the whether the participants have been able to grasp the concepts.

At the end of the third day of the training there was a post-test conducted by the course trainer which was aimed at gauging the knowledge and understanding of the participants about the topics discussed during the training and how much they had improved after attending the training. The questions asked in the post-test were the same as those in the pre-test in order to exactly know the difference in participants' understanding regarding specific topics before and after the training.

Finally an overall course evaluation was conducted by Akoo Agency was more comprehensive than the daily feedback collected from the participants. This evaluation was intended to obtain participants' views about different aspects of the training –from the venue to the effectiveness and coverage of the topics, and from the trainer's knowledge and preparedness to their overall impression of the whole experience.

Closing of the Program:

After the post-tests were administered and the final course evaluation forms were filled in by the participants, the trainer expressed his closing remarks and a TED talk on Information Security was given by Prof. Dr.ABC to develop interest in research of cyber security and enhance cyber security education among the participants.

Certificates of completion were distributed among the participants at the end of the workshop.

Conclusion:

The training program was conducted successfully and all the participants took active part in all the three days of the training. Akoo Agency suggested that the participants take part in the Online Hackathon, during the month of April 2020 conducted by the Sponsoring agency ZOHO. Participants and delegates involved in the smooth conduction of the program were given a Pen-Drive with videos on Ethical Hacking by ZOHO. The workshop ended on a happy and positive note.

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