

DR. AHMAD AL HWAITAT

EXPERT OF CYBER SECURITY AND INVESTIGATION OF CYBER OF CRIMES

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Ahmad.Hwaitat1@gmail.com

Amman -Jordan

Dr. Cyber Security in University of Jordan



Professional Cyber Security and Computer Forensic Investigator has eleven years of experience completing forensic investigation . Technical Expert In The Field Of Cyber Crimes And Digital Evidence and incident Management within high profile organizations. Strong proficiency in investigating System, network and Host abnormalities, resolving customer queries, reporting, penetration testing, and security risk development. expert of in:-

- ✓ Risk Assessment
- ✓ Information Security Engineering
- ✓ Cyber Threat Intelligence
- ✓ Vulnerability Management
- ✓ Cyber Forensics Investigation
- ✓ Data Scientist & AI
- ✓ Penetration Testing
- ✓ Information Security Standers & Compliance's
- ✓ SOC Operation

EDUCATION:

- Bachelor's Degree / Computer Science - The University of Jordan
- Master Degree /Computer Science -The University of Jordan , The Title of My Thesis " **A Web Threat Detection and Prevention and An Enhanced Approach "**
- Phd. Degree/ Computer Science - Cognitive domain Cyber security -The University of Jordan, The Title of My Dissertation "**A Digital Forensic Investigation Method under Advanced Persistent Threat in Industrial Espionage in Fog Computing.**

EXPERIENCE & NOTABLE CONTRIBUTIONS

- Part-Time lecturer of cyber security for "Digital Forensics course "for student master degree /The Hashemite university.
- Information security lecturer at the University of Jordan Consulting Center.
- Cyber security lectures in the colleges and institutes of the Public Security Directorate.
- Cyber security lecturer at the Royal Hashemite Court.
- Lecturer on Cyber Security and Human Trafficking at the US Embassy.
- Analyze network and host activity associated with both successful and unsuccessful intrusions by advanced attackers.
- Perform network traffic analysis utilizing raw packet data, net flow, IDS, and custom sensor output.
- Employ advanced forensic tools and techniques for attack reconstruction and intelligence gathering.
- Coordinate resources during enterprise incident response efforts, driving incidents to resolution.
- Identify and evaluate new sources of intelligence and integrate numerous types of cyber security data sources into cyber threat analysis products.
- Produce threat intelligence reports and briefings, that provide situational awareness of cyber threats impacting the company's global network infrastructure, to every level of the organization.
- Conduct threat hunt operations using known adversary tactics, techniques and procedures, as well as indicators of attack, in order to detect advanced threats to the enterprise.
- Provide on-call support for incident response efforts outside of core hours as needed.

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Profile Function

Incident Response and Investigation of Cyber Crimes and Digital Forensics in Cyber crimes cases and Investigation of crimes committed through the Internet include:

- ✓ Investigating Human Trafficking Crimes Through the Internet.
- ✓ Investigation of Communications Crimes.
- ✓ Provide Expertise in Crimes That Occur Through Modern Technologies. Investigating Electronic Impersonation Crimes
- ✓ Investigate The Crimes of Illegal Electronic Messages
- ✓ Investigation of Crimes of Electronic Equipment.
- ✓ Investigation of Software Crimes.
- ✓ International Cooperation with International Bodies in Combating Cybercrime Investigate Any Electronic Crime
- ✓ Investigation of Electronic Crimes That Constitute Infringement
- ✓ Infringement of Intellectual Property Rights.
- ✓ Electronic Piracy On Bank

Certificate of :

- ✓ Certificate of the Encase Analysis and Acquisition Encase and Ftk-Imger "in U.S
- ✓ Certificate of The Investigation of Cyber of Crimes in U.S
- ✓ Certificate of The Investigation of Cyber of Crimes, in TADOC Intelligence Department, Academy Cyber Crime, Turkey
- ✓ Certificate of the Advanced Mobile Device Forensics, Office of Antiterrorism Assistance Bureau of Diplomatic Security U.S. Department of State
- ✓ Certificate of the Cyber Awareness for Prosecutors, Office of Antiterrorism Assistance Bureau of Diplomatic Security U.S. Department of State
- ✓ Certificate of the Advanced Internet and Social Media Investigation, Office of Antiterrorism Assistance Bureau of Diplomatic Security U.S. Department of State
- ✓ Certificate of Risk management (incident Response) , Office of Antiterrorism Assistance Bureau of Diplomatic Security U.S. Department of State
- ✓ Investigating Human Trafficking Via Internet, Criminal investigation Department, Indonesia
- ✓ Certificate of the Intelligence Course, Preventive Security, Turkey
- ✓ Certificate of the Investigation of Cyber Crimes, United Nations Office On Drugs and Crime, UNODC.
- ✓ Certificate of the Risk Management, Office of Antiterrorism Assistance Bureau of Diplomatic Security U.S. Department of State
- ✓ Certificate of the Protection and security of electronic facilities and infrastructure from terrorist attacks, Office of Antiterrorism Assistance Bureau of Diplomatic Security U.S. Department of State
- ✓ Certificate of the Investigation Via Internet, UK Training Project of Cyber Crimes,
- ✓ Certificate of the Offensive Hacking "Advanced Security Training"
- ✓ Certified Ethical Hacker CEH EC Council Offers Certifications

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- ✓ Certificate of the Computer Hacking Forensic CHFI, Investigator CHFI ,Ec-Council,
- ✓ Certificate of the Advanced Network Defense CAND
- ✓ Certificate of the Specialized Training In Combating Human Trafficking and Migration Smuggling, International Criminal Police Organization (Interpol) .
- ✓ Certificate of the Child Protection System, Europe Project UK, Psd
- ✓ Certificate of the CCNA Security, Academy Cisco Network/ Psd,
- ✓ Certificate of the Cyber Security, Academy Cisco Network, Psd
- ✓ Certificate of the CCNA Exploration, Academy Cisco Network /Psd.
- ✓ Certificate of the Internet and Security, Academy Cisco Network, Psd
- ✓ Certificate of the Linux+
- ✓ Certificate of the Training Officers to Investigate Human Trafficking Crimes Via the Internet, United Nations Office On Drugs and Crime, (UNODC).
- ✓ Certificate of the Combating Organized Crime and The Crime of Human Trafficking
- ✓ International Center Migration Policy Development (IOM).
- ✓ Certificate of the Collection Digital Evidence Training Center Criminal Investigation Department, Psd.
- ✓ Certificate of the Leadership and Risk Management, Cooperation with Military and Psd and Intelligence Department.
- ✓ Certificate of the Recruitment of Resources Through Social Networks and Information Analysis, Military Intelligence Department.

Conferences and Workshops

- ✓ Middle East and North Africa Information Security Conference, (MENA ISC 2011).
- ✓ Combating human trafficking and cyber crime 2011.
- ✓ cyber crime & network security & Jordan - Amman 2013.
- ✓ Training officers to investigate human trafficking crimes via the Internet Exchange experiences with the U.S side 2014.
- ✓ Investigation of Cyber Crimes 2014.
- ✓ Investigation Cyber crimes and Tor Browser 2015.
- ✓ Investigation Human Trafficking 2015.
- ✓ Combating human trafficking 2016.
- ✓ Combat Cyber Crimes investigations. 2018
- ✓ Investigation Dark webs 2018
- ✓ Investigation Human Trafficking 2019.
- ✓ Combat Cyber Crimes investigations (Blockchain) Bitcoins .

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Competences:

- ✓ Consultant in The Field of Cyber Crime Investigation and Digital Evidence Development
- ✓ Technical Expert in The Field of Cyber Crimes and Digital Evidence, In The Regular Courts In Jordan
- ✓ Trainer of The Cyber Crime Investigation and Digital Evidence
- ✓ Development at The Training Center / Criminal Investigation
- ✓ Department CID and Public Security Department (PSD) Institutes
- ✓ Trainer in Investigating Human Trafficking Via Internet Training
- ✓ Center / Criminal Investigation Department CID and Public Security
- ✓ Department (PSD) Institutes
- ✓ Trainer in Investigating Human Trafficking Via Internet for THE, AMERICAN BAR ASSOCIATION RULE OF LAW INITIATIVE (ABA)
- ✓ Researcher of Cyber Crime Investigation and Digital Evidence, Development in The University of Jordan
- ✓ Trainer in Investigating Human Trafficking Via Internet and Cyber, Crimes for International Organization for Migration (IOM)

Experience with Computer Forensics Examinations

- Onsite Data Captures Over 150
- Multi-Drive Analysis Projects Over 100
- Drive Examinations Over 2500
- Testimony – Expert Witness

Experience with The Following Computer Forensics Tools

- ENCASE
- FTK accessdata Certified Examiner
- X-WAYS FORENSICS (WINHEX FORENSIC EDITION)
- NetAnalysis
- KALI Linux Forensic
- The Complete Digital Investigation Platform – (MAGNET AXIOM - MAGNET IEF - MAGNET ACQUIRE - MAGNET TRIAGE)

Publications

Aitizaz Ali , Muhammed Fermi pasha , Huey Fang Ong, Mohammed Amin Almaiah , **Ahmad K. Al Hwaitat**, (2022),” Big Data Based Smart Blockchain for Information Retrieval in Privacy -Preserving Healthcare System” International Journal of Big Data Intelligence ,Springer Big Data Intelligence for Smart Applications, pp 77-296 ,volume 994.

Mohammed Amin Almaiah , Ali Al-Zahrani, Omar Almomani and **Ahmad K. Al Hwaitat**, (2021),“Classification of Cyber Security Threats on Mobile Devices and Applications” Artificial Intelligence and Blockchain for Future Cybersecurity Applications.

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Ahmad K. Al Hwaitat, Rizik M. H. Al-Sayyed, Imad K. M. Salah, Saher Manaseer, Hamed S. AlBdour and Sarah E. Shukri , (2021), "Frequencies Wave Sound Particle Swarm Optimisation (FPSO) ", JOURNAL OF EXPERIMENTAL & THEORETICAL ARTIFICIAL INTELLIGENCE <https://doi.org/10.1080/0952813X.2021.1924870>.

Ahmad K. AL Hwaitat , Saher Manaseer , Rizik AL Sayid ,(2019), " A Survey of Digital Forensic Methods under Advanced Persistent Threat in Fog Environment, Journal of Theoretical and Applied Information Technology , Vol.97. No 18, pp. 4934-4954.

Ahmad K. AL Hwaitat , Saher Manaseer , Rizik AL Sayid ,(2019), " A THREAT INTELLIGENCE SCHEME FOR INCIDENT REPORTING AND INVESTIGATION OF SHAMOON ATTACK BEHAVIOUR IN FOG COMPUTING" Journal of Theoretical and Applied Information Technology ,

Ahmad K. AL Hwaitat , Saher Manaseer , Rizik AL Sayid ,(2019), " Investigator Digital Forensics Frequencies Particle Swarm Optimization for Detection and Classification of APT attack in FOG Computing Environment (IDF-FPSO) , Journal of Theoretical and Applied Information Technology.

Ahmad K. AL Hwaitat, Rizik AL Sayid, Mohammed Amin Almaiah , Ali Al-Zahrani, Omar Almomani ,(2020) ,"Improved Security Particle Swarm Optimization (PSO) Algorithm to Detect Radio Jamming Attacks in Mobile Networks", International Journal of Advanced Computer Science and Applications 11(4):614-625.

Ahmad K. AL Hwaitat , Mais Haj Qasem, (2020) , "Security of Data Access in Fog Computing using Location-based Authentication", International Journal of Advanced Trends in Computer Science and Engineering(IJATCSE) , Vol.9 No 1.

Ahmad K. AL Hwaitat , Mais Haj Qasem, (2020), "A survey Li Fi Technology and Internet of Things (IOT), ", International Journal of Advanced Trends in Computer Science and Engineering(IJATCSE) , Vol.9 No 1

Ahmad Kamel AL Hwaitat, Ameen Shaheen, Khalid Adhim, COMPUTER HARDWARE COMPONENTS , Modern Applied Science Canadian , VOL. 12 , No.3 , PP.35-40. ONTOLOGY 9. | 2018.

Ahmad K. Al Hwaitat, Saher Manasser , CENTRALIZED WEB APPLICATION FIREWALL SECURITY SYSTEM Modern Applied Science Canadian , VOL. 12 , No.10 , PP.164-170. | 2018.

Ahmad K. Al Hwaitat, Saher Manaseer , Riad Jabri , DISTRIBUTED DETECTION AND PREVENTION OF WEB THREATS IN HETEROGENEOUS ENVIRONMENT , Modern Applied Science Canadian , VOL. 12 , No.10 , PP. 14-22. | 2018 .

OM Rababah, **AK Al Hwaitat**, S Al Manaseer, HN Fakhouri, R Halaseh , WEB THREATS DETECTION & PREVENTION FRAMEWORK , Communications and Network , Vol.8 No.3, PP.170-178 | 2016

Ahmad K. Al Hwaitat, Saher Manaseer , VALIDATION AND INTEGRITY MECHANISM FOR WEB APPLICATION SECURITY, International Journal of Engineering Research and Science ,Vol.3 , No. 1 , PP. 34-38| 2107.

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Osama M Rababah, **Ahmad K Hwaitat**, Dana A Al Qudah, SENTIMENT ANALYSIS AS A WAY OF WEB OPTIMIZATION , Scientific Research and Essays , Vol.11,NO. 8, pp. 90-96. | 2016

Osama Mohammad Rababah ,Thair Hamtini, Hussam Nawwaf Fakhouri ,Amje d Hudeb, **Ahmad Hwaitat** ,THEORETICAL FRAMEWORK FOR SOCIAL NETWORK MARKETING BASED ON GENETIC ALGORITHM ,Scientific Research and Essays , Vol.11, no. 3, pp. 23-28, | 2016.

Rababah, O.M., **Hwaitat, A.K.**, Al Qudah, D.A. and Halaseh, R , HYBRID ALGORITHM TO EVALUATE E-BUSINESS WEBSITE COMMENTS , Communications and Network ,VOL. 8 ,PP. 137-143| 2016

Amjad A. Hudaib , **Ahmad K. Al Hwaitat** , MOVEMENT PARTICLE SWARM OPTIMIZATION ALGORITHM, Modern Applied Science Canadian , Vol.12 , No.1 ,PP.148-168. | 2018.

Ahmad K. Al Hwaitat, Saher Manaseer , 35 MEASURING PARALLEL PERFORMANCE OF SORTING ALGORITHMS Modern Applied Science Canadian , VOL. 12 , No.10 , PP.23-35 | 2018.