

Abdelrahman Esmail

Sr. Engineer-Threat Research

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Security Engineer with 5+ years' experience in per-sales, threat analysis, and network signature rules.

Proven track record in managing large-scale projects from both sales and R&D perspectives.

Work Experience

Sr. Threat Detection and Response

Apr 2023 – Present

Trend Micro | Cairo, Egypt

- Developed, designed, and refactored threat models that correlated with hybrid, on-premise, container, and cloud environments to give 360 visibility for customers.
- Tracked new APT group's activities on Kibana and Splunk to track zero-day attacks and exploited in the wild CVEs to provide customer coverage in less than 24 hours.
- Built a new XDR telemetry schema for container environments which helped to co-relate container activities from K8s, Openshift, and ECS orchestrations with other cloud, endpoint, and workload activities.
- Developed tools to help in daily testing for regression, FP, and unit testing with Atomic-Red-Script.

Sr. Threat Detection and Response

Jan 2023 – Mar 2023

Trend Micro | Cairo, Egypt

- Led the initiative to redesign, optimize, and maintain vulnerability network signature rules and decoders, resulting in a 20% performance improvement and a 35% reduction in false positives
- Led the weekly end-to-end release process of signatures to the customers.
- Managed customer escalations related to Deep Security IPS signatures for security incidents, and false positives/negatives with the same weekly sprint.
- Conducted vulnerability research and performed simulations for IPS signatures, addressing undisclosed items from ZDI and other Trend-labs, resulting in IPS coverage for 2 weeks before the vendor's official patch.

Threat Detection and Response

May 2020 – Mar 2023

Trend Micro | Cairo, Egypt

- Designed and fine-tuned sophisticated network signature rules which need more research work with new network protocols for C1WS.
- Vulnerability research, verification, and reproduction for n-day, 0 days, and undisclosed items from Trend-labs.

- Administered Customer issues and inquiries on an average of 4 working days.

Technical Sales

Dec 2018 – May 2020

Trend Micro | Riyadh, Saudi Arabia

- Assist customers' technical requests and take care of any technical issues
- Build strong customer relationships, especially with key customer stakeholders and sponsors
- Provide technical support for customers to support per-sales and post-sales processes
- Address all product-related queries on time
- Train customers to use products effectively
- Report on product performance
- Identify solutions to reduce support costs
- Analyze customers' needs and suggest upgrades or additional features to meet their requirements
- Establish best practices
- Always strive to provide exceptional customer experience
- Manage customer expectation and lead them to customer satisfaction
- Make sure all deliverables arrive in good order, on time, and fulfill customers' requirements
- Take initiatives in identifying growth opportunities
- Collaborate with our team to achieve sustainable growth
- Identify customer security and connectivity requirements, and propose Trend Micro solutions to address these needs. Solutions include but are not limited to Data-center, Network, and User Security.
- Confirms Trend Micro's products meet the prospect's requirements and assist sales in technical qualification during the qualifying process.
- Work with a customer's technical contacts during evaluation/demonstration periods, respond to their technical issues/questions and act as the liaison between the customer and engineering as well as product management and marketing.
- Understanding customer IT/Security infrastructure and business requirement
Strategic Solution selling
- Solution Demonstrations and Proof of Concepts
- Business Solution Proposals, RFI/RFP specification preparations
Having Strong understanding of Trend Micro portfolio, including but not limited to Deep Security, DDI, DDEI, DDAN, OfficeScan, SMEX, SMLD, IMSVA, IWSVA, CAS and HES.

Trainee

Oct 2018 – Nov 2018

Trend Micro | Cairo, Egypt

- Graduate of rigorous 8-week Trend Micro Certified Program in IT security.
- Gained practical, hands-on experience and product certification with Trend Micro's market-leading hybrid cloud security, network defense and endpoint protection solutions.

- Developed team and presentation skills, and deeper knowledge of networking, virtualization, Advanced persistent threat and cloud computing

Student

Sep 2014 – Jun 2018

Faculty of Computer and Information Science, Ain Shams University | Cairo, Egypt

Projects

Recomendation Scan Automation

Jan 2022 – May 2022

Update legacy code to Python3 and OSs infrastructure, to be fully automated for windows update and deal with latest Deep security installation update with 1 click. the cycle reduced from ~7 hours to less than 1 hour)

Atomic Red Script Automation

Feb 2023 – May 2023

Build a fully regression automation to test Trend Micro container security rules against malicious attacks on different Cloud Providers (AWS-EKS, AWS-ECS, GCP, Azure, OpenStack)

CISA KEV Parity Check

Mar 2024 – Sep 2024

A report contains the full information for Vulnerability listed in CISA KEV with Trend Micro current coverage for all possible solutions. The result will be pdf contains Trend Micro current score coverage and KEVs missing with available POCs/exploitation with old cases.

Core Skills

Customer Service, Intrusion Detection, Host Intrusion Prevention, Kubernet, Wireshark, TCP/IP, OWASP, Vulnerability Signatures, falco , Snort, Suricata, CEH, OSCP, Amazon Web Services (AWS), Microsoft Azure, Amazon ECS, Amazon EKS, Kubernetes, Presentations, Network Traffic Analysis, Malware Analysis, Reverse Engineering , Static Analysis, Dynamic Analysis, Mitre, Sigma, Yara, Linux, Windows Server, Azure

Education

Faculty of Computer and Information Science Ain Shams

Jan 2014 – Jun 2018

Bachelor of computer science

Mostafa Kamel
high school | Mathematics Section.

Jan 2011 – Jan 2013

Languages

Arabic (NATIVE), English (PROFESSIONAL)

Awards

ZDI Acknowledgment Feb 2024

Trend Micro ZDI

- ZDI Acknowledgment for tracking the Water Hydra Targets Traders on SmartScreen Zero-Day.
- ZDI Acknowledgment for tracking campaigns "Void Banshee Targets Windows Users Through Zombie Internet Explorer in Zero-Day".

Trend Micro Internal CTF - Technical Day Jan 2023

Trend Micro

2nd place in Trend Micro Capture the flag internal competition for Trend Micro employees (R&D, System Engineers).

Employee of The Year Deep Security Labs Dec 2022

Trend Micro

The Best Trend Micro Threat Researcher for implementing and upgrade from legacy systems

Cyber Talents Egypt CTF May 2018

Cyber Talents

5th place in Egypt Capture the flag competition under team name Code4Duty.

Cyber Talents Egypt CTF Apr 2017

Cyber Talents

9th place in Egypt Capture the flag competition under team name Flag3nters.

Certificates

McKinsey Forward Program

McKinsey & Company

AWS Certified Developer – Associate Sep 2024

Amazon Web Services (AWS)

CNSS Certified Network - ICSI

ICSI

AZ-301 Microsoft Azure Architect Design Apr 2022

Microsoft

Microsoft Certified: Azure Solutions Architect Expert Apr 2022

Microsoft

AZ-300 Microsoft Azure Architect Technologies	Mar 2022
Microsoft	
Amazon Web Services SysOps Administrator - Associate	Dec 2022
Amazon Web Services (AWS)	
Amazon Web Services Solutions Architect Associate	May 2022
Amazon Web Services (AWS)	
Apex One Certified Master	May 2021
Trend Micro	
Deep Discovery Advanced Threat Detection 2.1 Certified Professional	Nov 2020
Trend Micro	
OfficeScan XG Certified Professional	Nov 2020
Trend Micro	
XGen Endpoint Launch Essentials for Technical Sales	Nov 2020
Trend Micro	
Advanced Threat Centric Education – Intermediate v3	
Trend Micro	
Deep Security 11 Certified Professional	Oct 2020
Trend Micro	
Hybrid Cloud Security Essentials for Technical Sales	Jan 2021
Trend Micro	
Cybersecurity Specialization	
Coursera	
Cybersecurity Specialization	
University of Maryland, College Park	
Cryptography	
Coursera	
Hardware Security	
Coursera	
Software Security	
Coursera	

Publications

Silent Intrusions: Godzilla Fileless Backdoors Targeting Atlassian Confluence	Jan 2024
TrendMicro	
Cryptojacking via CVE-2023-22527: Dissecting a Full-Scale Cryptomining Ecosystem	Jan 2024
TrendMicro	
CVE-2024-38112: Void Banshee Targets Windows Users Through Zombie Internet Explorer in Zero-Day Attacks	Jan 2024
TrendMicro	

CVE-2024-21412: Water Hydra Targets Traders With Microsoft Defender SmartScreen Zero-Day Jan 2024

TrendMicro

Interests

Capture The Flag, Reading, Problem Solving, APT Tracking, Threat Intelligence , Coding