

REFERENCES

- Accenture. (2018). *AT-A-GLANCE Unlocking the value of improved cybersecurity protection THE EXPANDING THREAT LANDSCAPE AND NEW BUSINESS INNOVATION*. 2018–2019.
- Almohannadi, H., Awan, I., Al Hamar, J., Cullen, A., Disso, J. P., & Armitage, L. (2018). Cyber threat intelligence from honeypot data using elasticsearch. *Proceedings - International Conference on Advanced Information Networking and Applications, AINA, 2018-May*, 900–906.
<https://doi.org/10.1109/AINA.2018.00132>
- Ambre, A., & Shekhar, N. (2015). Insider threat detection using log analysis and event correlation. *Procedia Computer Science*, 45(C), 436–445.
<https://doi.org/10.1016/j.procs.2015.03.175>
- Bahrami, P. N., Dehghantanha, A., Dargahi, T., Parizi, R. M., Choo, K. K. R., & Javadi, H. H. S. (2019). Cyber kill chain-based taxonomy of advanced persistent threat actors: Analogy of tactics, techniques, and procedures. *Journal of Information Processing Systems*, 15(4), 865–889.
<https://doi.org/10.3745/JIPS.03.0126>
- Bhardwaj, A., & Goundar, S. (2019). A framework for effective threat hunting. *Network Security*, 2019(6), 15–19. [https://doi.org/10.1016/S1353-4858\(19\)30074-1](https://doi.org/10.1016/S1353-4858(19)30074-1)
- Caltagirone, S., Pendergast, A., & Betz, C. (2013). The Diamond Model of Intrusion Analysis. *Threat Connect*, 298(0704), 1–61. Retrieved from <http://oai.dtic.mil/oai/oai?verb=getRecord&metadataPrefix=html&identifier=ADA586960%5Cnhttps://www.threatconnect.com/wp-content/uploads/ThreatConnect-The-Diamond-Model-of-Intrusion-Analysis.pdf>
- Debnath, B., Solaimani, M., Gulzar, M. A. G., Arora, N., Lumezanu, C., Xu, J., ... Khan, L. (2018). LogLens: A real-time log analysis system. *Proceedings - International Conference on Distributed Computing Systems, 2018-July*, 1052–1062. <https://doi.org/10.1109/ICDCS.2018.00105>
- Ertaul, L., & Mousa, M. (2018). Applying the Kill Chain and Diamond Models to

- Microsoft Advanced Threat Analytics. *252 Int'l Conf. Security and Management SAM18*, 252–258.
- Fernandes, G., Joel, J., Lemes, M., Jr, P., Fernando, L., & Jalal, C. (2018). A comprehensive survey on network anomaly detection. *Telecommunication Systems*. <https://doi.org/10.1007/s11235-018-0475-8>
- Fiessler, A., Lorenz, C., Hager, S., Scheuermann, B., & Moore, A. W. (2017). HyPaFilter: Enhanced Hybrid Packet Filtering Using Hardware Assisted Classification and Header Space Analysis. *IEEE/ACM Transactions on Networking*, 25(6), 3655–3669. <https://doi.org/10.1109/TNET.2017.2749699>
- Fuchs, M., & Lemon, J. (2020). *A SANS Survey SANS 2020 Threat Hunting Survey Results*. (December).
- Gao, P., Shao, F., Liu, X., Xiao, X., Qin, Z., Xu, F., ... Song, D. (2020). *Enabling Efficient Cyber Threat Hunting With Cyber Threat Intelligence*. Retrieved from <http://arxiv.org/abs/2010.13637>
- Hajisalem, V., & Babaie, S. (2018). A hybrid intrusion detection system based on ABC-AFS algorithm for misuse and anomaly detection. *Computer Networks*, 136, 37–50. <https://doi.org/10.1016/j.comnet.2018.02.028>
- He, P., Zhu, J., He, S., Li, J., & Lyu, M. R. (2016). An evaluation study on log parsing and its use in log mining. *Proceedings - 46th Annual IEEE/IFIP International Conference on Dependable Systems and Networks, DSN 2016*, 654–661. <https://doi.org/10.1109/DSN.2016.66>
- Javeed, D., Khan, M. T., Ahmad, I., Iqbal, T., Badamasi, U. M., Ndubuisi, C. O., & Umar, A. (2020). An Efficient Approach of Threat Hunting Using Memory Forensics. *International Journal of Computer Networks and Communications Security*, 8(5), 37–45. [https://doi.org/10.47277/ijcncs/8\(5\)1](https://doi.org/10.47277/ijcncs/8(5)1)
- Jeon, K. S., Park, S. J., Chun, S. H., & Kim, J. B. (2016). A study on the big data log analysis for security. *International Journal of Security and Its Applications*, 10(1), 13–20. <https://doi.org/10.14257/ijasia.2016.10.1.02>
- Ju, A., Guo, Y., Ye, Z., Li, T., & Ma, J. (2019). HeteMSD: A Big Data Analytics Framework for Targeted Cyber-Attacks Detection Using Heterogeneous Multisource Data. *Security and Communication Networks*, 2019. <https://doi.org/10.1155/2019/5483918>
- Khan, M. A., Karim, M. R., & Kim, Y. (2019). A scalable and hybrid intrusion

- detection system based on the convolutional-LSTM network. *Symmetry*, 11(4).
<https://doi.org/10.3390/sym11040583>
- Kreps, J. (2015). *I ♥ Logs*. O'Reilly Media, Inc.
- Le, T. (2015). A recommended framework for anomaly intrusion detection system (IDS). *Lecture Notes in Informatics (LNI), Proceedings - Series of the Gesellschaft Fur Informatik (GI)*, 246, 1829–1840.
- Liao, H. J., Richard Lin, C. H., Lin, Y. C., & Tung, K. Y. (2013). Intrusion detection system: A comprehensive review. *Journal of Network and Computer Applications*, 36(1), 16–24. <https://doi.org/10.1016/j.jnca.2012.09.004>
- Mansfield-Devine, S. (2017). Threat hunting: assuming the worst to strengthen resilience. *Network Security*, 2017(5), 13–17. [https://doi.org/10.1016/S1353-4858\(17\)30050-8](https://doi.org/10.1016/S1353-4858(17)30050-8)
- Martínez-Álvarez, R. P., Giraldo-Rodríguez, C., & Chaves-Diéguez, D. (2018). Large scale anomaly detection in data center logs and metrics. *ACM International Conference Proceeding Series*, 1–4. <https://doi.org/10.1145/3241403.3241442>
- Rahayu, S. S., & Robiah, Y. (2018). *An Enhancement of Cyber Threat Intelligence Framework Comparative Study of Cyber Threat Intelligence Framework Framework An Enhancement of Cyber Threat Intelligence*. (November).
- Rastogi, R., Akash, S., Shobha, G., Poonam, G., Pratiba, D., & Singh, A. (2017). Design and development of generic web based framework for log analysis. *IEEE Region 10 Annual International Conference, Proceedings/TENCON*, 232–236. <https://doi.org/10.1109/TENCON.2016.7847996>
- Sakr, S., Maamar, Z., Awad, A., Benatallah, B., & Van Der Aalst, W. M. P. (2018). Business process analytics and big data systems: A roadmap to bridge the gap. *IEEE Access*, 6, 77308–77320. <https://doi.org/10.1109/ACCESS.2018.2881759>
- Services, E. E. (2015). *Data Sciene and Big Data Analytics*. Retrieved from <http://library1.nida.ac.th/termpaper6/sd/2554/19755.pdf>
- Shah, N., Willick, D., & Mago, V. (2018). A framework for social media data analytics using Elasticsearch and Kibana. *Wireless Networks*, (December). <https://doi.org/10.1007/s11276-018-01896-2>
- Shamimul Islam, Haidar Ali, Ahsan Habib, Nur Nobi, Mahbub Alam, D. H. (2018). Threat minimization by design and deployment of secured networking model. *Journal of Electronics and Information Engineering*, 8(2), 96–106. Retrieved

from <http://ijeie.galaxy.com.tw/contents/ijeie-v8-n2/ijeie-v8-n2.pdf>

- Shin, H. (2016). *13.2018_네트워크 보안 관제를 위한 로그 시각화 방법-A log Visualization method for network security monitoring.*
- Skopik, F., Settanni, G., & Fiedler, R. (2016). A problem shared is a problem halved: A survey on the dimensions of collective cyber defense through security information sharing. *Computers and Security, 60*, 154–176.
<https://doi.org/10.1016/j.cose.2016.04.003>
- Strom, B. E., Battaglia, J. A., Kemmerer, M. S., Kupersanin, W., Miller, D. P., Wampler, C., ... Wolf, R. D. (2017). *Finding cyber threats with ATT&CK-based analytics.* (June), 1–47. Retrieved from
<https://www.mitre.org/sites/default/files/publications/16-3713-finding-cyber-threats-with-att%26ck-based-analytics.pdf>
- Subba, B., Biswas, S., & Karmakar, S. (2017). Enhancing performance of anomaly based intrusion detection systems through dimensionality reduction using principal component analysis. *2016 IEEE International Conference on Advanced Networks and Telecommunications Systems, ANTS 2016.*
<https://doi.org/10.1109/ANTS.2016.7947776>
- Terzi, D. S., Terzi, R., & Sagioglu, S. (2017). Big data analytics for network anomaly detection from netflow data. *2017 International Conference on Computer Science and Engineering (UBMK), 9(5)*, 592–597.
<https://doi.org/10.1109/UBMK.2017.8093473>
- Tounsi, W., & Rais, H. (2018). A survey on technical threat intelligence in the age of sophisticated cyber attacks. *Computers and Security, 72*, 212–233.
<https://doi.org/10.1016/j.cose.2017.09.001>
- Yen, T. F., Oprea, A., Onarlioglu, K., Leetham, T., Robertson, W., Juels, A., & Kirda, E. (2013). Beehive: Large-scale log analysis for detecting suspicious activity in enterprise networks. *ACM International Conference Proceeding Series*, 199–208. <https://doi.org/10.1145/2523649.2523670>
- Yoo, S., Jo, J., Kim, B., & Seo, J. (2020). Hyperion: A Visual Analytics Tool for an Intrusion Detection and Prevention System. *IEEE Access, 8*, 133865–133881.
<https://doi.org/10.1109/ACCESS.2020.3010789>
- Zhang, L., & Huang, M. (2016). A firewall rules optimized model based on service-grouping. *Proceedings - 2015 12th Web Information System and Application*

Conference, WISA 2015, 142–146. <https://doi.org/10.1109/WISA.2015.47>

Zhu, J., He, S., Liu, J., He, P., Xie, Q., Zheng, Z., & Lyu, M. R. (2019). Tools and Benchmarks for Automated Log Parsing. *Proceedings - 2019 IEEE/ACM 41st International Conference on Software Engineering: Software Engineering in Practice, ICSE-SEIP 2019*, 121–130. <https://doi.org/10.1109/ICSE-SEIP.2019.00021>

