

REFERENCES

- Acarali, D., Rajarajan, M., Komninos, N., Herwono, I., 2016. Survey of approaches and features for the identification of HTTP-based botnet traffic. *Journal of Network and Computer Applications* 76, 1–15.
<https://doi.org/10.1016/j.jnca.2016.10.007>
- Aiello, M., Mongelli, M., Papaleo, G., 2013. Basic classifiers for DNS tunneling detection, in: 2013 IEEE Symposium on Computers and Communications (ISCC). Presented at the 2013 IEEE Symposium on Computers and Communications (ISCC), IEEE, Split, Croatia, pp. 000880–000885.
<https://doi.org/10.1109/ISCC.2013.6755060>
- Almulhem, A., 2009. Network forensics: Notions and challenges, in: 2009 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT). Presented at the 2009 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT), IEEE, Ajman, United Arab Emirates, pp. 463–466. <https://doi.org/10.1109/ISSPIT.2009.5407485>
- Białczak, P., Mazurczyk, W., 2020. Characterizing Anomalies in Malware-Generated HTTP Traffic. *Security and Communication Networks* 2020, 1–26.
<https://doi.org/10.1155/2020/8848863>
- Bortolameotti, R., Peter, A., Everts, M.H., Bolzoni, D., 2015. Indicators of Malicious SSL Connections, in: Qiu, M., Xu, S., Yung, M., Zhang, H. (Eds.), *Network and System Security, Lecture Notes in Computer Science*. Springer International Publishing, Cham, pp. 162–175. https://doi.org/10.1007/978-3-319-25645-0_11
- Buric, J., Delija, D., 2015. Challenges in network forensics, in: 2015 38th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO). Presented at the 2015 38th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO), IEEE, Opatija, Croatia, pp. 1382–1386. <https://doi.org/10.1109/MIPRO.2015.7160490>
- cisco, 2018. As Encrypted Malicious Web Traffic Increases, Defenders Need Advanced Tools That Provide Visibility - Cisco Blogs [WWW Document].

URL <https://blogs.cisco.com/security/as-encrypted-malicious-web-traffic-increases-defenders-need-advanced-tools-that-provide-visibility>

Dai, R., Gao, C., Lang, B., Yang, L., Liu, H., Chen, S., 2019. SSL Malicious Traffic Detection Based On Multi-view Features, in: Proceedings of the 2019 the 9th International Conference on Communication and Network Security. Presented at the ICCNS 2019: 2019 the 9th International Conference on Communication and Network Security, ACM, Chongqing China, pp. 40–46.
<https://doi.org/10.1145/3371676.3371697>

DFRWS USA 2001, 2001. A Road Map for Digital Forensic Research.

Eslahi, M., Rohmad, M.S., Nilsaz, H., Naseri, M.V., Tahir, N.M., Hashim, H., 2015. Periodicity classification of HTTP traffic to detect HTTP Botnets, in: 2015 IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE). Presented at the 2015 IEEE Symposium on Computer Applications & Industrial Electronics (ISCAIE), IEEE, Langkawi, Kedah, Malaysia, pp. 119–123. <https://doi.org/10.1109/ISCAIE.2015.7298339>

Ghafir, I., Prenosil, V., Hammoudeh, M., Han, L., Raza, U., 2017. Malicious SSL Certificate Detection: A Step Towards Advanced Persistent Threat Defence, in: Proceedings of the International Conference on Future Networks and Distributed Systems. Presented at the ICFNDS '17: International Conference on Future Networks and Distributed Systems, ACM, Cambridge United Kingdom. <https://doi.org/10.1145/3102304.3102331>

Gourley, D., Totty, B., Sayer, M., Aggarwal, A., Reddy, S., 2002a. HTTP: The Definitive Guide [Book]. O'Reilly Media, Inc., Chapter 4.1.

Gourley, D., Totty, B., Sayer, M., Aggarwal, A., Reddy, S., 2002b. HTTP: The Definitive Guide [Book]. O'Reilly Media, Inc., Chapter 3.

Hootsuite & We Are Social (2019), 2021. Digital 2021 April Statshot Report — DataReportal – Global Digital Insights [WWW Document]. URL <https://datareportal.com/reports/digital-2021-april-global-statshot>

Hwang, C., Kim, H., Lee, H., Lee, T., 2020. Effective DGA-Domain Detection and Classification with TextCNN and Additional Features. Electronics 9, 1070. <https://doi.org/10.3390/electronics9071070>

- J. Clement, 2021. Top retail websites by global traffic 2020 | Statista [WWW Document]. URL <https://www.statista.com/statistics/274708/online-retail-and-auction-ranked-by-worldwide-audiences/>
- Javadianasl, Y., Manaf, Azizah Abd, Zamani, M., 2017. A Practical Procedure for Collecting More Volatile Information in Live Investigation of Botnet Attack, in: Hassanien, A.E., Mostafa Fouad, M., Manaf, Azizah Abdul, Zamani, M., Ahmad, R., Kacprzyk, J. (Eds.), *Multimedia Forensics and Security, Intelligent Systems Reference Library*. Springer International Publishing, Cham, pp. 381–414. https://doi.org/10.1007/978-3-319-44270-9_17
- Joshi, R.C., Pilli, E.S., 2016. Network Forensics, in: *Fundamentals of Network Forensics, Computer Communications and Networks*. Springer London, London, pp. 3–16. https://doi.org/10.1007/978-1-4471-7299-4_1
- Kumar, G., 2016. Denial of service attacks – an updated perspective. *Systems Science & Control Engineering* 4, 285–294. <https://doi.org/10.1080/21642583.2016.1241193>
- Lambion, D., Josten, M., Olumofin, F., De Cock, M., 2020. Malicious DNS Tunneling Detection in Real-Traffic DNS Data, in: *2020 IEEE International Conference on Big Data (Big Data)*. Presented at the 2020 IEEE International Conference on Big Data (Big Data), IEEE, Atlanta, GA, USA, pp. 5736–5738. <https://doi.org/10.1109/BigData50022.2020.9378418>
- Law, F.Y.W., Chow, K.P., Lai, P.K.Y., Tse, H.K.S., 2010. A Host-Based Approach to BotNet Investigation?, in: Goel, S. (Ed.), *Digital Forensics and Cyber Crime, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering*. Springer Berlin Heidelberg, Berlin, Heidelberg, pp. 161–170. https://doi.org/10.1007/978-3-642-11534-9_16
- Leach, P.J., Berners-Lee, T., Mogul, J.C., Masinter, L., Fielding, R.T., Gettys, J., n.d. Hypertext Transfer Protocol -- HTTP/1.1 [WWW Document]. URL <https://tools.ietf.org/html/rfc2616#section-1> (accessed 4.20.21).
- Li, X., 2017. A Review of Motivations of Illegal Cyber Activities. *Kriminol. soc. integr. (Online)* 25, 110–126. <https://doi.org/10.31299/ksi.25.1.4>
- Marnierides, A.K., 2014. Traffic Anomaly Diagnosis in Internet Backbone Networks: A Survey 22.

- Microsoft, 2021. X.509 Public Key Certificates [WWW Document]. URL <https://docs.microsoft.com/id-id/windows/win32/seccertenroll/about-x-509-public-key-certificates>
- Okta.com, 2021. Establishing a SSL/TLS Session - Transport Layer Security | Okta Developer [WWW Document]. URL <https://developer.okta.com/books/api-security/tls/how/>
- Pilli, E.S., Joshi, R.C., Niyogi, R., 2010. A Generic Framework for Network Forensics. IJCA 1, 1–6. <https://doi.org/10.5120/251-408>
- Plohmann, D., n.d. Botnets: Detection, Measurement, Disinfection & Defence 153.
- P.Mockapetris, 1987. <https://www.ietf.org/rfc/rfc1035.txt> [WWW Document]. URL <https://www.ietf.org/rfc/rfc1035.txt>
- Ren, F., Jiang, Z., Wang, X., Liu, J., 2020. A DGA domain names detection modeling method based on integrating an attention mechanism and deep neural network. Cybersecur 3, 4. <https://doi.org/10.1186/s42400-020-00046-6>
- SonicWall, 2021. 2021 SonicWall Cyber Threat Report (No. 1.4). SonicWall.
- Tang, R., Huang, C., Zhou, Y., Wu, H., Lu, X., Sun, Y., Li, Q., Li, J., Huang, W., Sun, S., Pei, D., 2020. A Practical Machine Learning-Based Framework to Detect DNS Covert Communication in Enterprises, in: Park, N., Sun, K., Foresti, S., Butler, K., Saxena, N. (Eds.), Security and Privacy in Communication Networks, Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering. Springer International Publishing, Cham, pp. 1–21. https://doi.org/10.1007/978-3-030-63095-9_1
- The MITRE Corporation, 2015. MITRE ATT&CK® [WWW Document]. URL <https://attack.mitre.org/>
- walter glenn, 2017. What Is the Service Host Process (svchost.exe) and Why Are So Many Running? [WWW Document]. URL <https://www.howtogeek.com/howto/windows-vista/what-is-svchostexe-and-why-is-it-running/>
- what is tlu.dl.delivery.mp.microsoft.com? - Microsoft Community [WWW Document], 2019. URL <https://answers.microsoft.com/en->

us/windows/forum/all/what-is-tludldeliverympmicrosoftcom/0c94d0e5-1e42-49ad-9d77-d13cb6567f9c

whatismybrowser.com, 2021. User Agents - Parser and API - Easily decode any user agent [WWW Document]. URL <https://developers.whatismybrowser.com/>

