TAP Privacy

Abstract

1 Introduction

2 Background

3 Design

4 Implementation

5 Evaluation

6 Discussion

7 Related Work

TAP security & privacy. Privacy in trigger-action systems [1], analysis of IFTTT recipes [3, 4], Walnut [2]

8 Conclusion

References

[1] Yunang Chen, Amrita Roy Chowdhury, Ruizhe Wang, Andrei Sabelfeld, Rahul Chatterjee, and Earlence Fernandes. 2021. Data Privacy in Trigger-Action Systems. In *42nd IEEE Symposium on Security and Privacy, SP 2021, San Francisco, CA, USA, 24-27 May 2021*. IEEE, 501–518. https://doi.org/10.1109/SP40001.2021.00108

[2] Sandy Schoettler, Andrew Thompson, Rakshith Gopalakrishna, and Trinabh Gupta. 2020. Walnut: A low-trust trigger-action platform. *CoRR* abs/2009.12447 (2020). arXiv:2009.12447 https://arxiv.org/abs/2009.12447

[3] Milijana Surbatovich, Jassim Aljuraidan, Lujo Bauer, Anupam Das, and Limin Jia. 2017. Some Recipes Can Do More Than Spoil Your Appetite: Analyzing the Security and Privacy Risks of IFTTT Recipes. In *Proceedings of the 26th International Conference on World Wide Web, WWW 2017, Perth, Australia, April 3-7, 2017*, Rick Barrett, Rick Cummings, Eugene Agichtein, and Evgeniy Gabrilovich (Eds.). ACM, 1501–1510. https://doi.org/10.1145/3038912.3052709

[4] Blase Ur, Melwyn Pak Yong Ho, Stephen Brawner, Jiyun Lee, Sarah Mennicken, Noah Picard, Diane Schulze, and Michael L. Littman. 2016. Trigger-Action Programming in the Wild: An Analysis of 200, 000 IFTTT Recipes. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems, San Jose, CA, USA, May 7-12, 2016*, Jofish Kaye, Allison Druin, Cliff Lampe, Dan Morris, and Juan Pablo Hourcade (Eds.). ACM, 3227–3231. https://doi.org/10.1145/2858036.2858556