

I. Summary

We know that legacy deployment of IPv6 has leaked device identities problem. Thus, one of the solutions is privacy extensions to the IPv6 addressing mechanism. But still, it has its problem that will allow an adversary to track all users across the network, correlate users' activities over time, or extract users' precise geolocation. They tried to propose a tool that can allow users with minimal technical expertise to scan their local home networks to identify the IPv6-leaking devices and observe their ISP's prefix rotation policy.

II. Strength

They provide a tool that can view the prefixes assigned to them by their ISP and whether they are rotated on the IPv6-enabled devices that use legacy configurations of the standard. Also, they provided their tool's user-friendly user interface that allows users to easily scan and see devices.

Moreover, this paper is aimed to encourage more users to understand the issue of IPv6 privacy so they can drive the efforts to develop a more privacy-preserving IPv6 ecosystem, therefore, promotion is more important than the substance itself. I think this is a good chance for a normal user to be aware of this issue.

III. Weakness

My perspective is the novelty of this paper's contribution is not very state-of-the-art. Technically, it just provides a tool that is based on some previous technique so it has not had very high technical content. And in this paper, I think some of the terminologies are quite hard to understand and I hope they can describe it more to let me know the situation, the problem they encountered, the proposed method, etc.

IV. Reflection

Their starting point is they want more people to know what some issues or threats about IPv6 that more people used in recent years. Therefore, they provided a tool with a user-friendly UI that can let the user easily detect everything that they should pay attention to. However, if I were the author, I'll use a more approachable perspective or friendly terminology to tell my user what's going on with this issue and what the challenges we face are so that they can attempt to understand this important issue.

In addition, as the author said in the future work section, they tried to let these tools not just work locally and they'll try to use network traffic analysis to analyze more impact, however, some important info they store has some privacy problems. This is another issue they have to consider.