Systems Considerations

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RFC 7258: Pervasive Monitoring Is an Attack

Abstract

Pervasive monitoring is a technical attack that should be mitigated in the design of IETF protocols, where possible.

Status of This Memo

This memo documents an Internet Best Current Practice.

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The Confidentiality Dilemma

On-Path-Analytics

Channel

Platform

Platform

Platform
The Confidentiality Dilemma
Our Reaction So Far

We're gonna need a bigger threat model.

draft-farrell-etc-03

S. Farrell

Trinity College Dublin
July 6, 2019

Abstract

We argue that an organized threat model is needed for Internet protocol development as protocol endpoints can no longer be considered as generally trustworthy for any general definition of "trustworthy."

Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 19 and RFC 2026.

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Systems Considerations

- Suggest looking at bigger picture and starting more principled discussion

- Consolidation/Centralization
  - Need a discussion without sensationalizing issues
  - Technical vs. economic factors

- Control points in the network
  - Censorship by authoritarian regime bad
  - Parental & enterprise control seems useful

- For the user...
  - Applications don’t want to trust the infrastructure
  - Can users trust the applications?
  - Role of operating systems...
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