

Network Covert Channel Patterns

Current State and Methodology

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The talk briefly covers the fundamentals of network covert channels, followed by a discussion of hiding patterns. Hiding patterns are abstract descriptions of covert channel techniques that — among other advantages — aid the development of a better taxonomy in the research domain. The talk presents novel countermeasures for selected hiding patterns and reviews the scientific methodology in the domain. Finally, results of a replication study will be presented.