Case Study: Interactive Visualization for Internet Security

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Abstract

The Internet connectivity is defined by a set of routing protocols which let the routers that comprise the Internet Backbone choose the best route for a packet to reach the destination. One way to improve the security and performance of Internet is to routinely examine the routing data. In this case study, we show how interactive visualization of the Border Gateway Protocol (BGP) data helps characterize a specific routing behavior, identify weaknesses in connectivity which could potentially cripple the Internet, as well as detect and explain an actual anomalous activity.

1 Introduction