

Hacking in 2022: Security in Post-Scarcity Internet

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Professional Strategies – S12

Session Abstract

Three critical Internet trends are converging in 2012 and promise to redefine attack and defense on the future Internet: IPv6, DNSSEC and the creation of hundreds of new top-level domains. Two of these technologies are direct responses to the artificial scarcity of names and addresses on the Internet, and one is meant to address the lack of trust we have in the Internet's fundamental architecture. Unfortunately the unexpected secondary effects of these changes have not been appropriately explored, and enterprise IT and risk teams need to come to grips with the fact that the products and processes they have honed over the last decade will not serve them well in the next.

This talk will provide a quick background of these technologies and their direct security impacts. We will then explore the indirect impacts on fraud detection, DDoS prevention, monitoring, botnets, compliance and the future of enterprise architecture. The talk will also include specific suggestions for how enterprises can prepare for these changes and leverage the new Internet infrastructure to improve their security posture.

Target Audience

Skill Level – Intermediate and Advanced

Profile – Strategy, Architecture, Risk, Security, Audit

Occupational Experience – Entry to Senior level Auditors, Managers, and Directors in all industry verticals

COBIT Objectives

- PO 2.1 - Enterprise Information Architecture Model
- PO 3.0 - Determine Technological Direction
- DS 5.7 - Protection of Security Technology
- DS 5.10 - Network Security
- ME2.1 - Monitoring of Internal Control Framework
- ME2.6 - Internal Control at Third Parties
- ME3.0 - Ensure Compliance With External Requirements
- ME4.5 - IT Risk Management

Speaker Bio

Alex Stamos is the CTO of Artemis, the division of NCC Group that is proud to announce the .Secure gTLD. He was the co-founder of iSEC Partners, one of the world's premier security consultancies and also a part of NCC Group. Alex has spent his career building or improving secure, trustworthy systems, and is a noted expert in Internet infrastructure, cloud computing and mobile security. He is a frequently request speaker at conferences such as Black Hat, Defcon, Amazon ZonCon, Microsoft Blue Hat, FS-ISAC and Infragard. He holds a BSEE from the University of California, Berkeley and his personal security writings are available at <http://unhandled.com>.