

DNSSEC for Beginners

Session Notes

Welcome!

... to the DNSSEC for Beginners Session! We hope that over the next 60 minutes, whatever your knowledge of DNS and DNSSEC you'll find some useful information that you can use to inform you in your decisions around DNS security and deploying DNSSEC. We're blessed with great speakers (who are some of the world's experts on DNSSEC) and we hope to give you a light-hearted session packed full of useful information.

The Speakers

Roy Arends – Head of Research at Nominet UK. Roy has worked with DNS technologies for over 15 years and helped develop the DNSSEC standard (yes we have him to blame...). Roy now runs the Research Team at Nominet looking at ways of improving the safety and security of the global Internet.

Warren Kumari – Senior Network Security Engineer, Google. Warren has been with Google since 2005. As a senior engineer, Warren is responsible for all aspects of keeping the Google production network both secure and operational. Warren's secondary responsibilities include mentoring other members of his team, and being an active participant in Standards/Internet Evangelism.

Russ Mundy – Principle Network Scientist, Parsons. Russ is one of the world's true experts on DNS and DNSSEC deployment, working at the forefront of the development and deployment of DNSSEC. Russ is a font of knowledge on the wide variety of tools and technologies that can be used to get DNSSEC up and running quickly!

Norm Ritchie – Business Development, ISC. Norm has worked in a number of the world's largest registries and now helps develop and deliver the BIND software that runs over 90% of the worlds DNS resolvers and name-servers.

The Schedule

Outline Concept	Segment	Duration	Speaker
Welcome	Welcome and Introduction	2 mins	Warren
Basic Concepts	Caveman – DNSSEC 5000BC	3 mins	Warren
	DNS Basics	5 mins	Roy
	DNS Chain of Trust - Live	5 mins	Norm
Core Concepts	DNSSEC – How it works	10 mins	Roy
	DNSSEC – Chain of Trust Live	5 mins	Norm
Real World Examples	A sample DNSSEC implementation (what it looks like, s/w etc). A simple guide to deployment.	10 mins	Russ
	A guide to DNSSEC Deployment options: Technologies and vendors.	10 mins	Russ
Summary	Session Round up, hand out of materials, Thank you's	2 mins	Warren

Please get involved!

We hope that the session is fun and informal. Please don't hesitate to ask questions as we go. There will also be plenty of time at the end of the session to talk individually to the speakers or engage in debate.

Further Resources

A guide to the OpenDNSSEC toolset: <http://www.opendnssec.org/>

An excellent resource for available DNSSEC applications and tools: <http://www.dnssec-tools.org/>

Excellent site on DNSSEC articles, protocols, and tools: <http://www.dnssec.net/>

Fantastic Firefox plugin for validating DNSSEC zones: <http://www.dnssec-validator.cz/>

Bloodhound Browser does DNSSEC checking for all DNS lookups and includes DANE support:
<https://www.dnssec-tools.org/wiki/index.php/Bloodhound>

Wikipedia article on DNSSEC: http://en.wikipedia.org/wiki/Domain_Name_System_Security_Extensions

Information on deployment of DNSSEC at the Root: <http://www.root-dnssec.org/>

DNSSEC tools from the Verisign Labs: <http://tools.verisignlabs.com/>