

Bloodhound: DNSSEC and DANE for the End-User

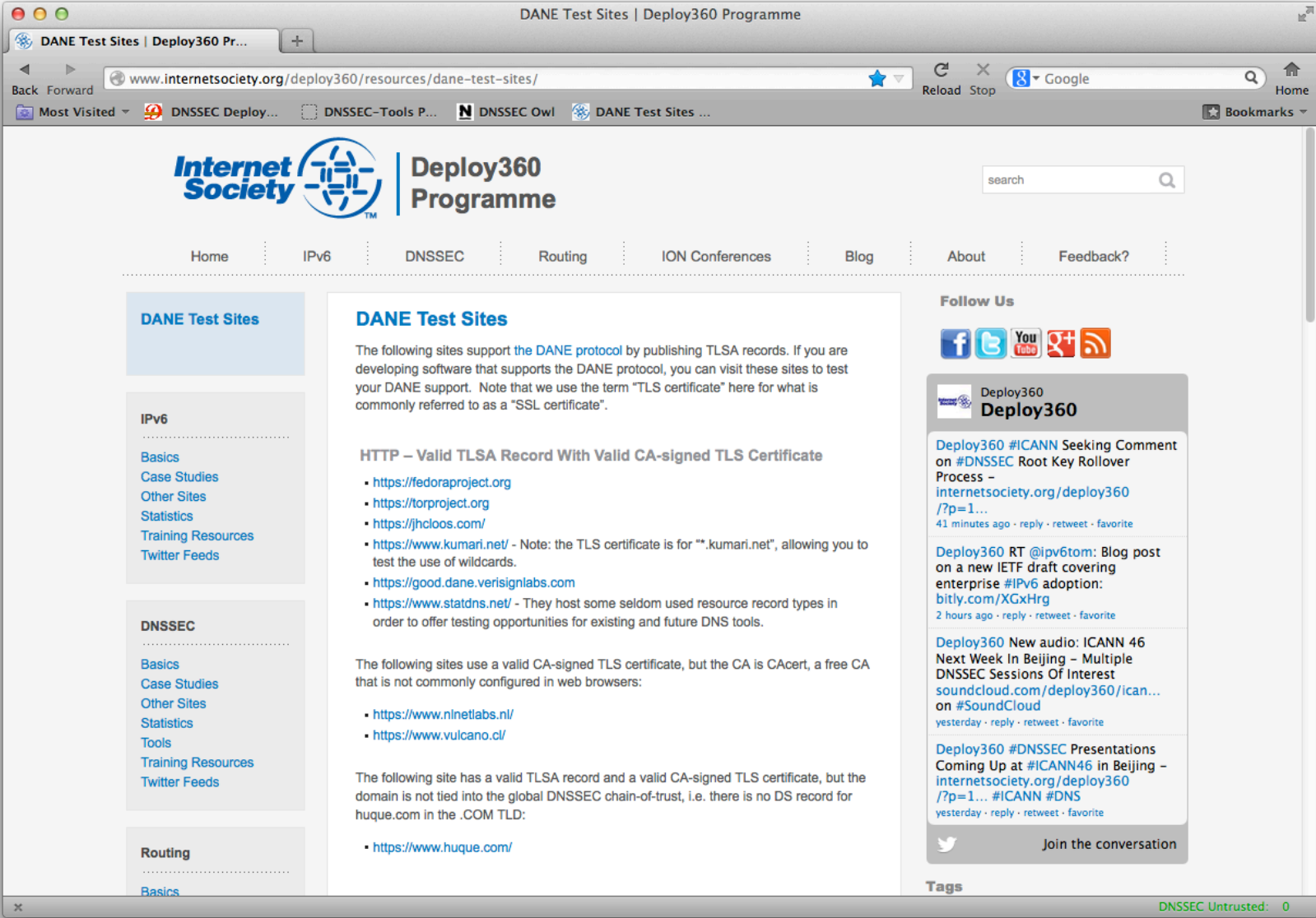
Russ Mundy

Parsons

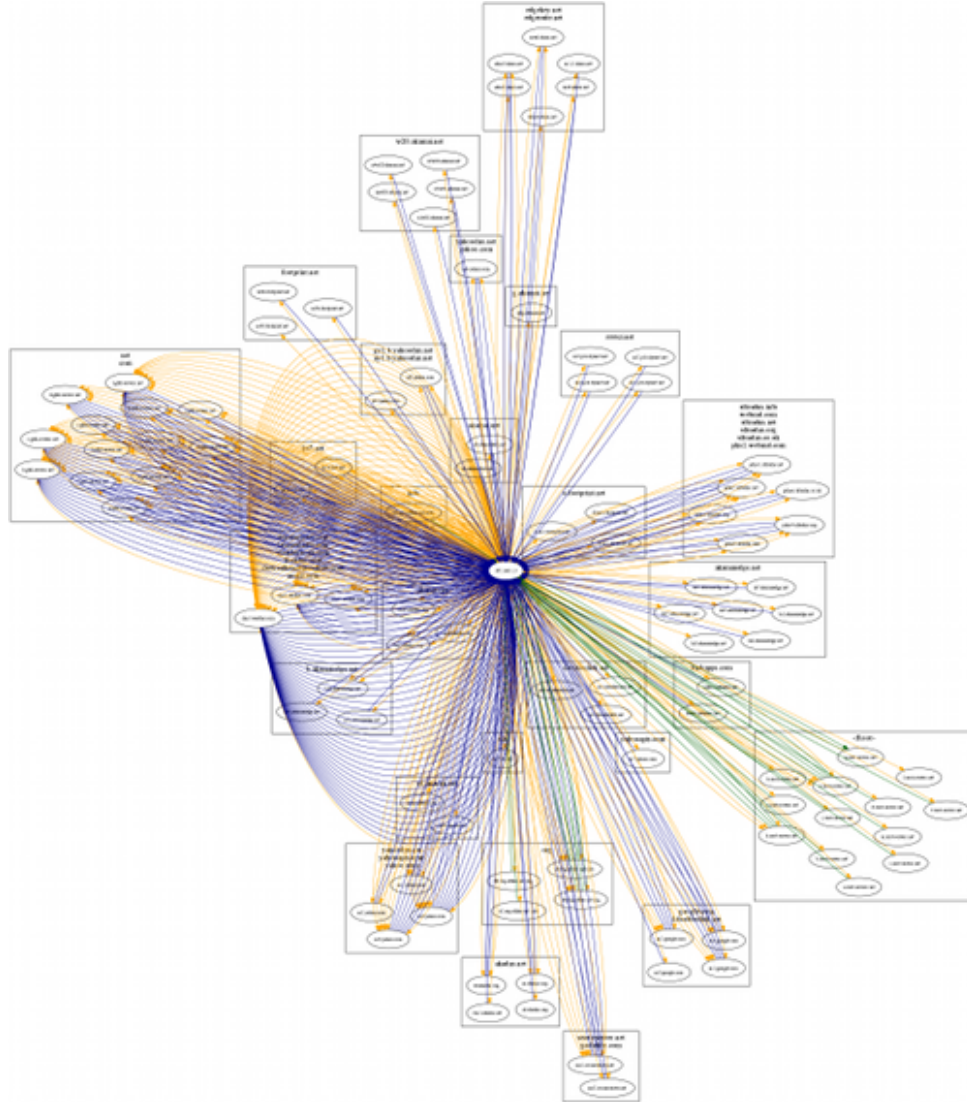
April 10, 2013

DNSSEC Innovation: BLOODHOUND

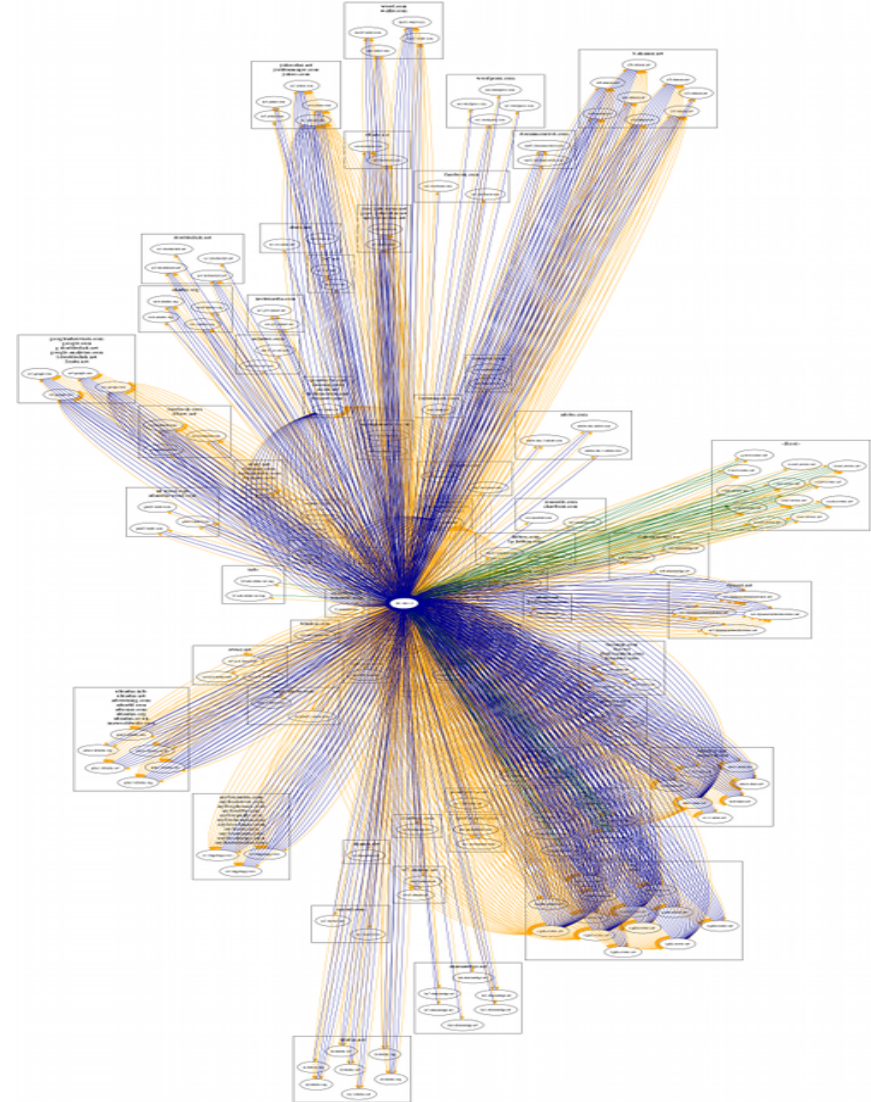
- Mozilla-based DNSSEC enabled browser with DANE support
 - DNSSEC checking of all names on a page
 - Support for validation of certificates using the DANE protocol
- Available at:
<https://www.dnssec-tools.org/>
 - Many other tools available
 - All DNSSEC Tools are **FREE!!**



Parsons 1 address = multiple DNS lookups

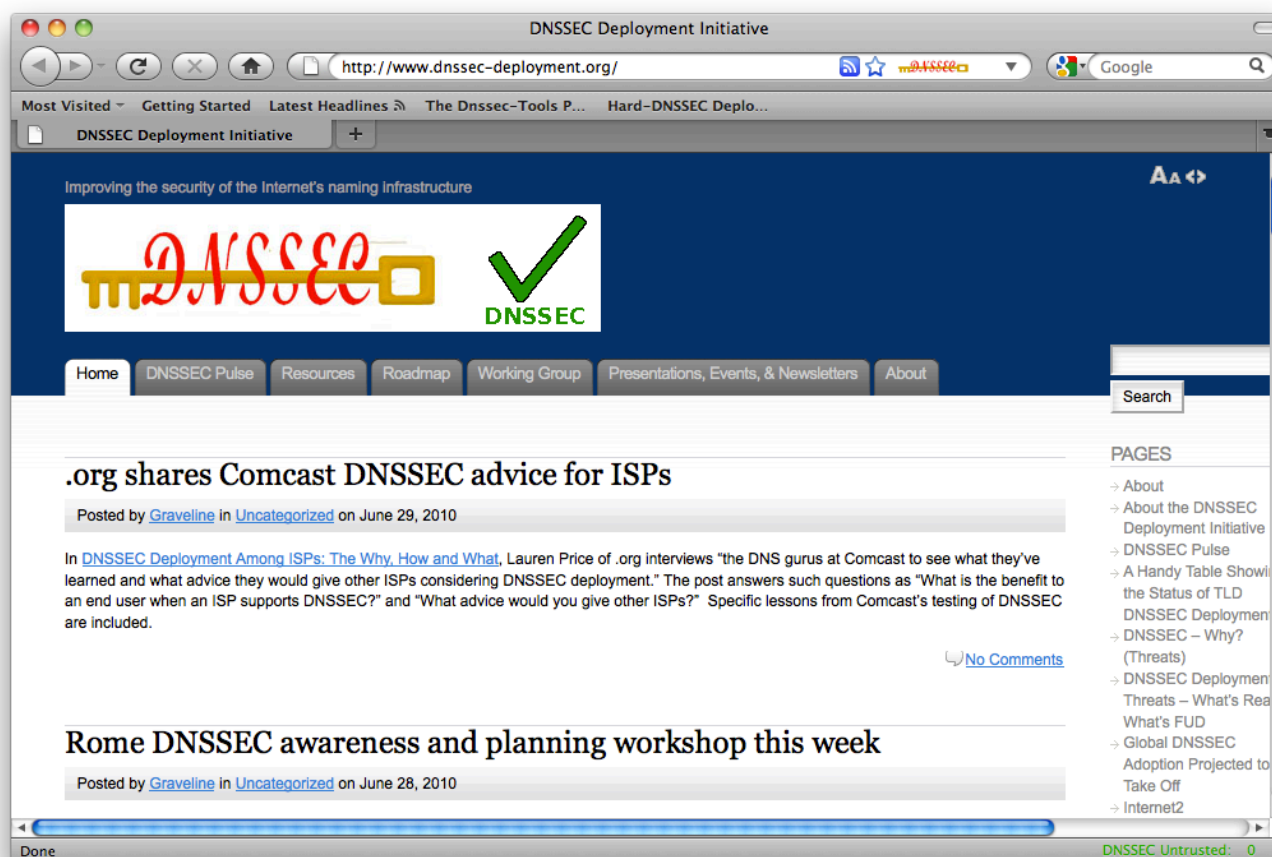


www.weather.com

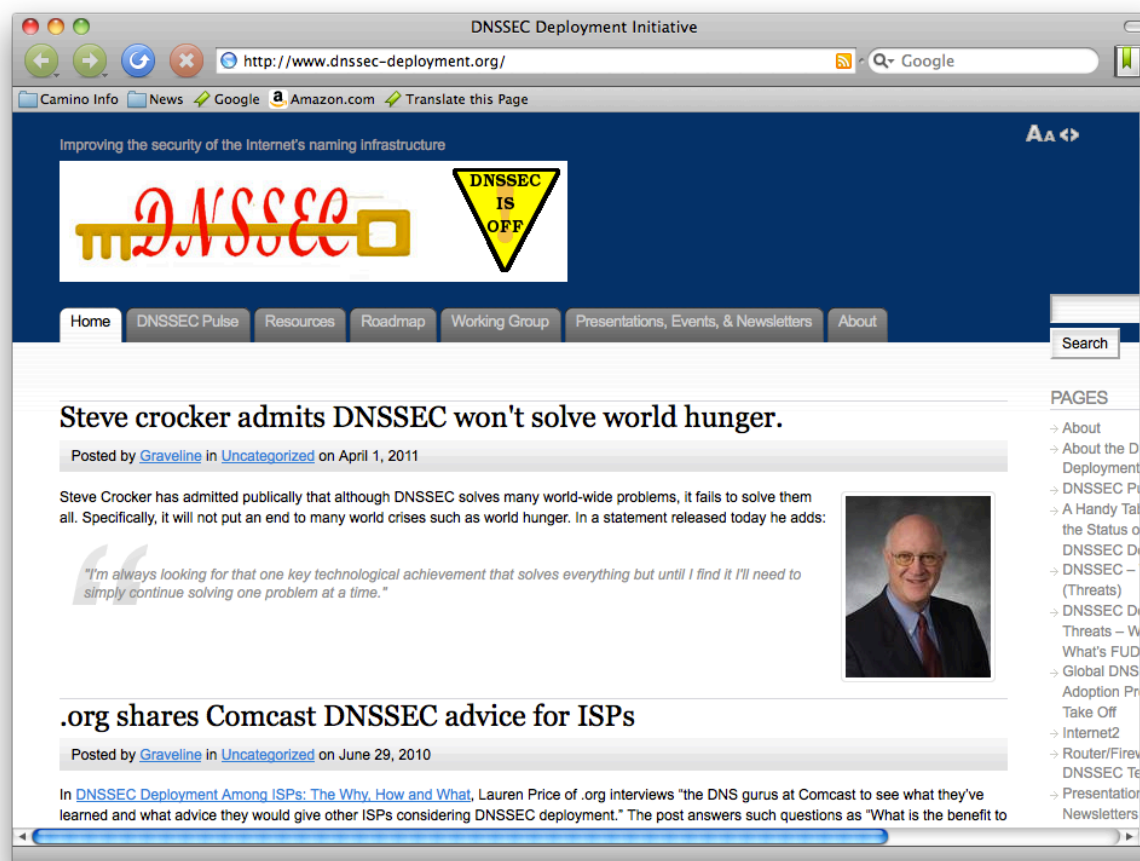


www.foxnews.com

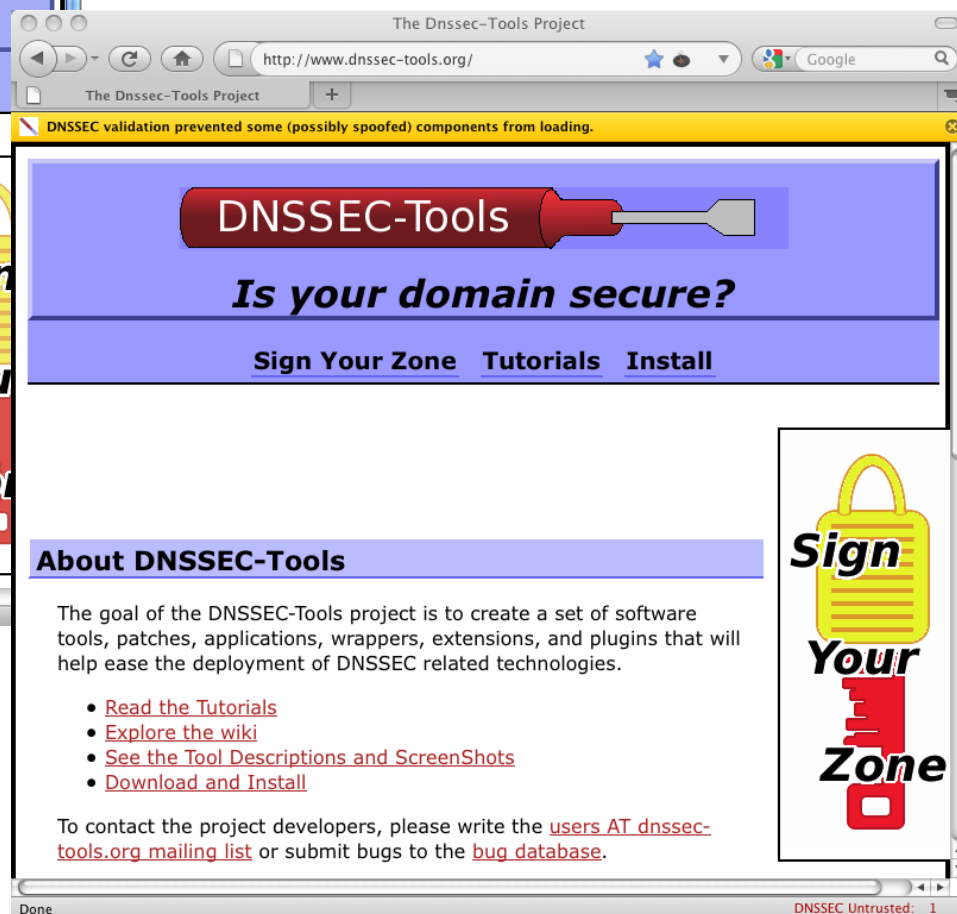
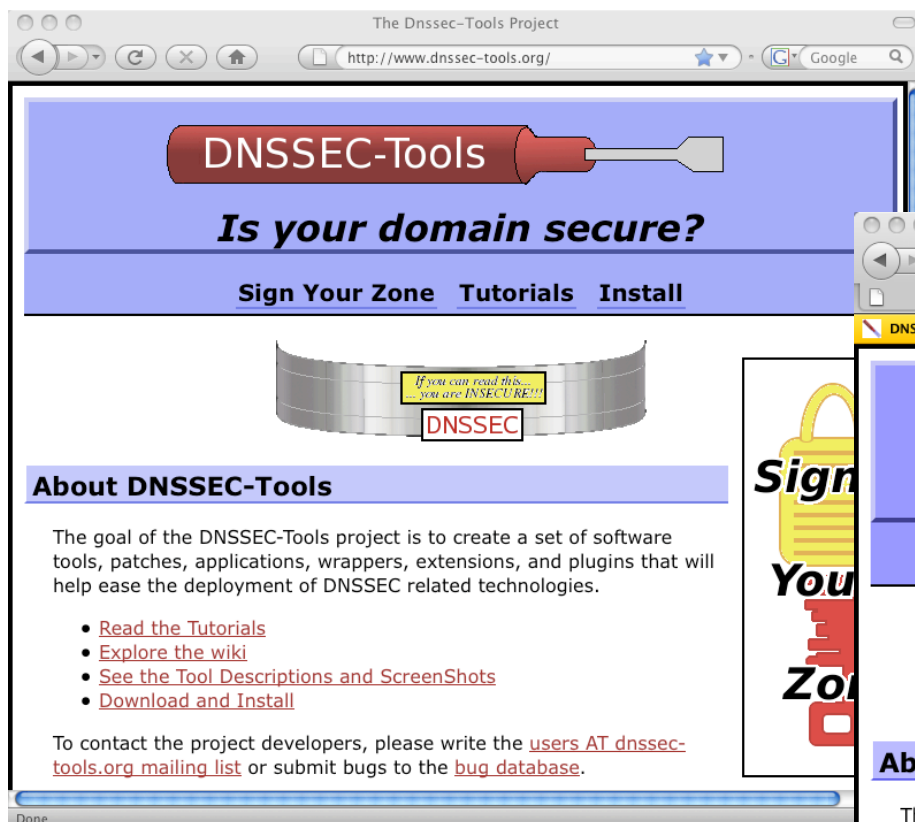
Valid Web Site Content



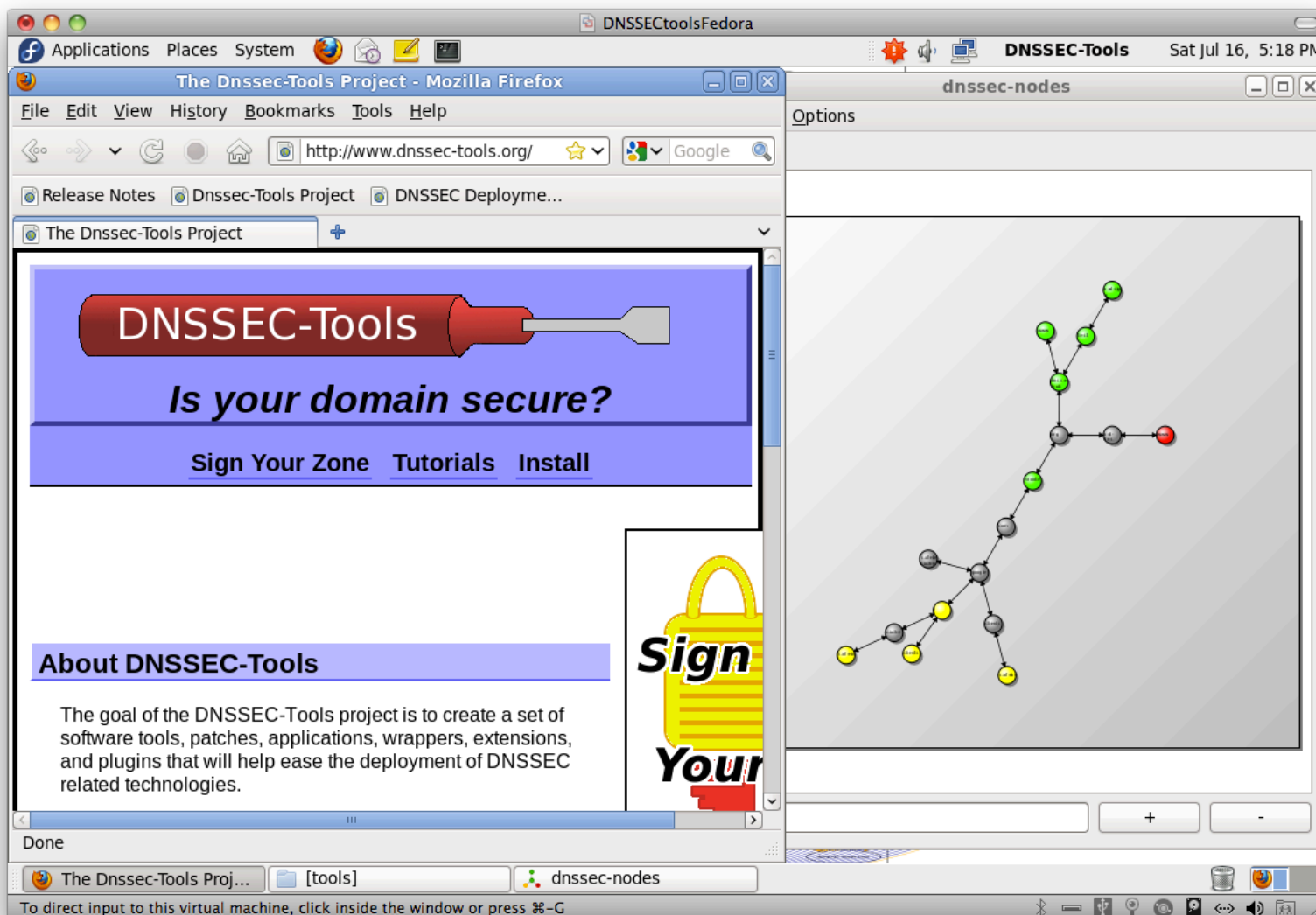
INVALID Web Site Content From DNS Based Attack



Bloodhound in Action



“Seeing” DNSSEC Better



The screenshot shows a virtual machine window titled "DNSSECToolsFedora". Inside, a Mozilla Firefox browser displays the "The Dnssec-Tools Project" website. The website has a blue header with the text "DNSSEC-Tools" and "Is your domain secure?". Below this are links for "Sign Your Zone", "Tutorials", and "Install". A section titled "About DNSSEC-Tools" explains the project's goal: "The goal of the DNSSEC-Tools project is to create a set of software tools, patches, applications, wrappers, extensions, and plugins that will help ease the deployment of DNSSEC related technologies." A yellow shopping bag icon with the text "Sign Your" is also visible.

To the right of the browser window is a window titled "dnssec-nodes" showing a diagram of a DNSSEC node structure. The diagram consists of a central node connected to several other nodes, some of which are highlighted in green and red. The diagram is set against a light gray background with a grid pattern.