

DNSSEC trigger

or how to get
DNSSEC on ::1

Wouter Wijngaards
& Olaf Kolkman

Executive Summary

How to get
DNSSEC to your
machine, without
too much of a
headache

`dnssec-trigger`

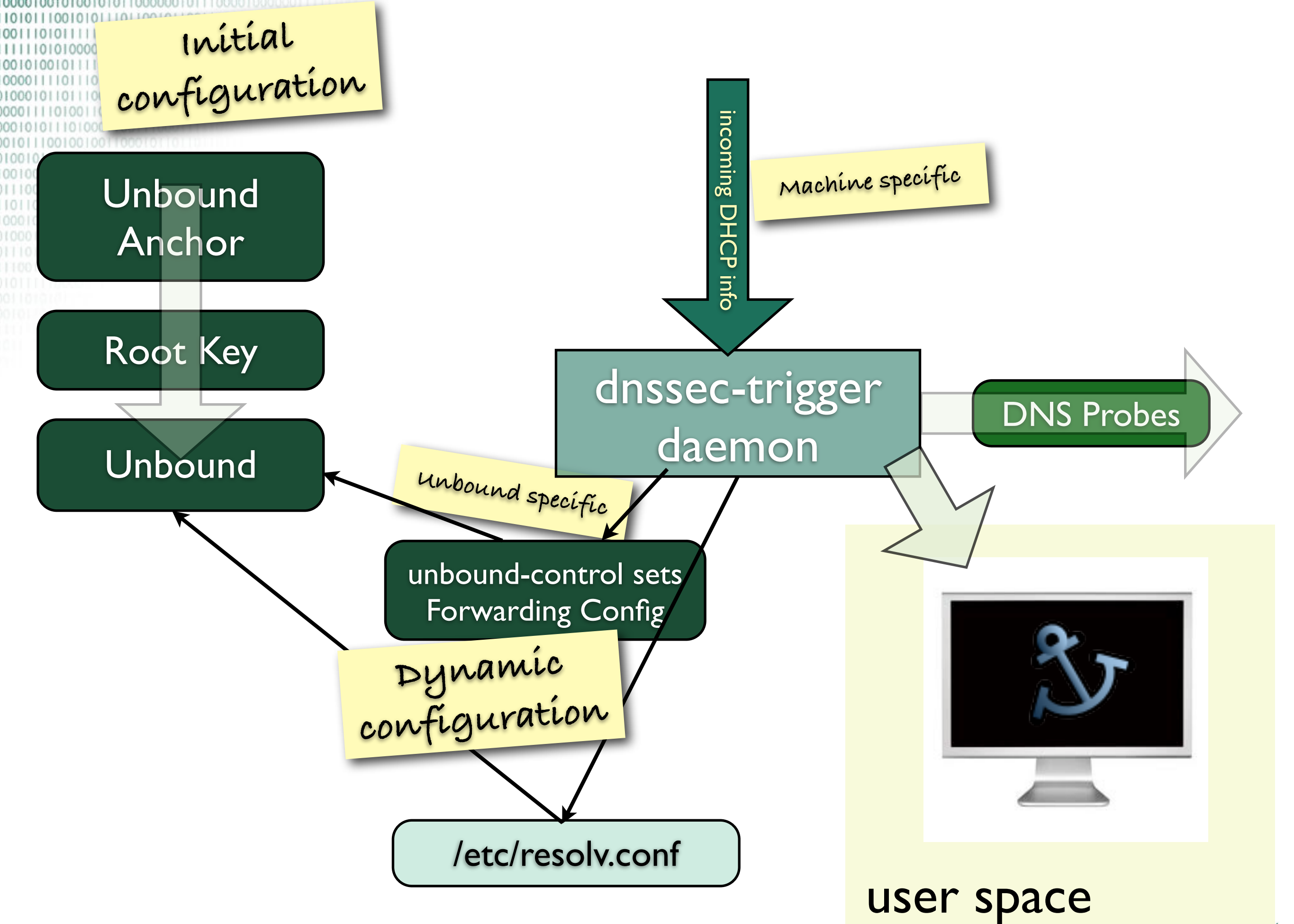
Run Unbound
Locally

Catch reconfigs
(DHCP etc)

Try to penetrate

If all fails call
user





Probing Strategy

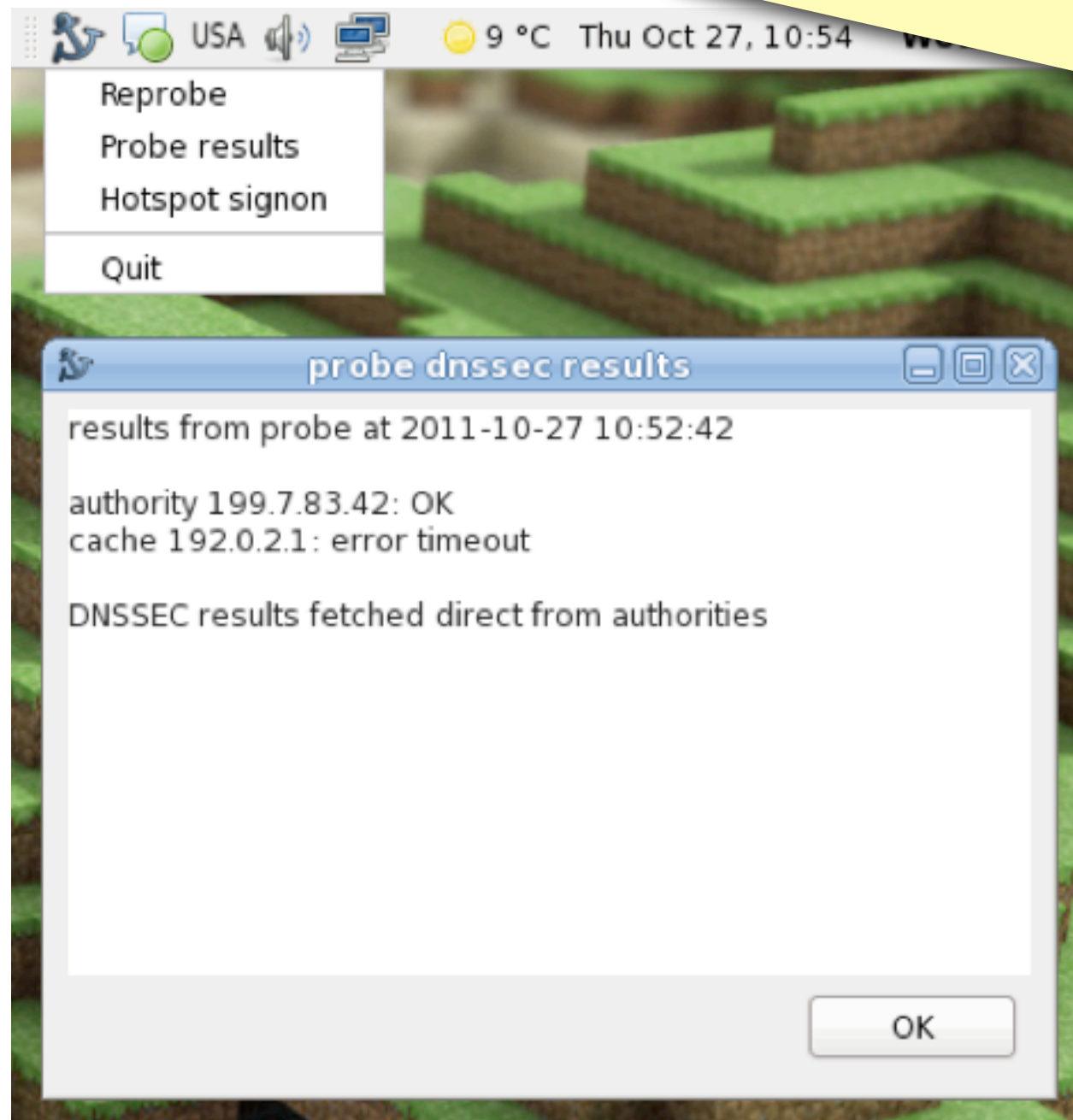
Use cache from DHCP

All IPs in resolv.conf are tried in parallel, first response wins

Full resolver mode, querying authority servers directly

Port 80 and 443 to an NLnet Labs resolver

Normal operation



Probe Expectations

EDNS support

RRSIGs

DNSKEY and DS

Lengthy Packets
(>512)

Transparent Proxy
that is transparent
to DNSSEC

And it will PProbe AGAIN

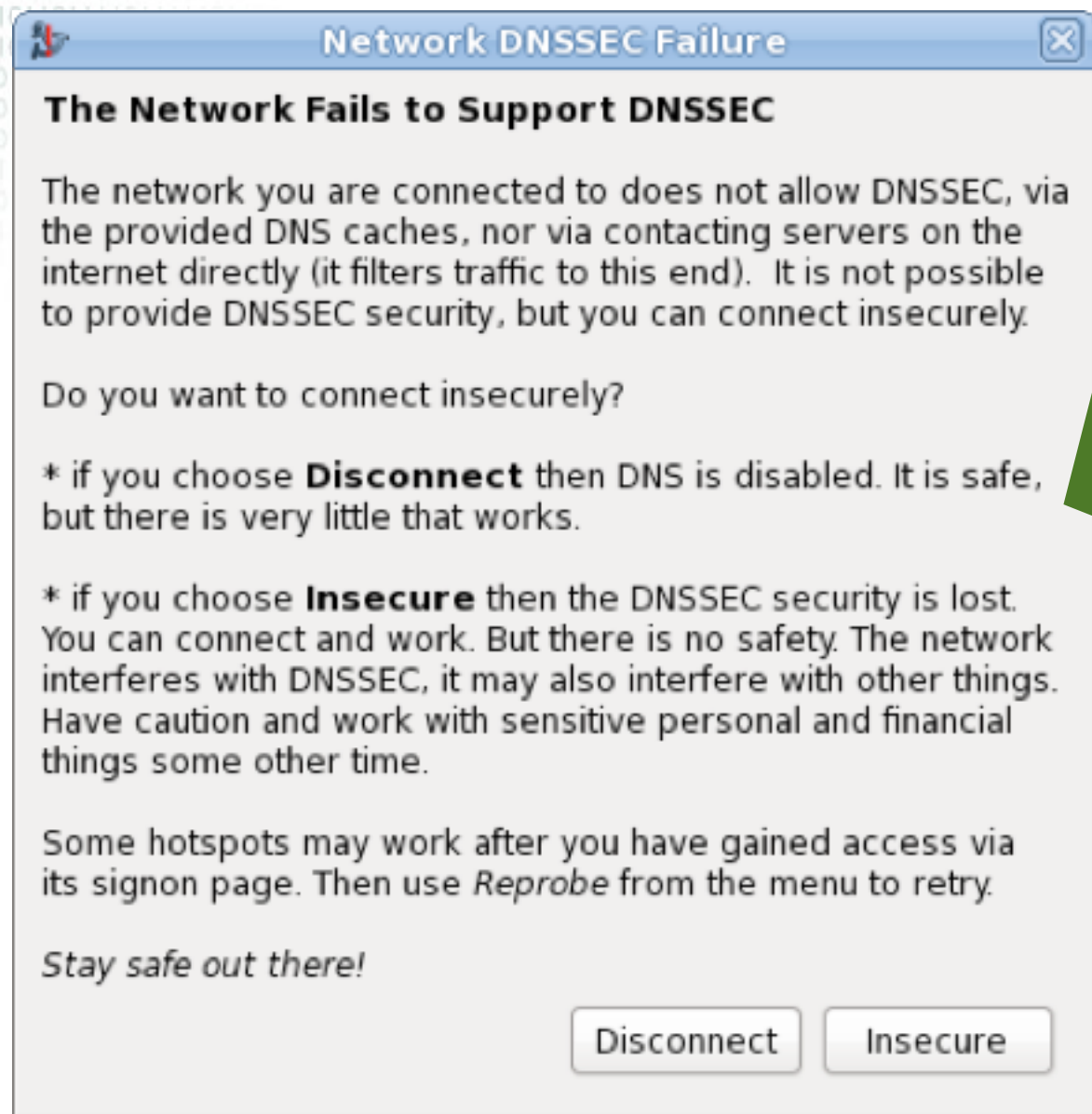
If insecure against
its will

exp backoff

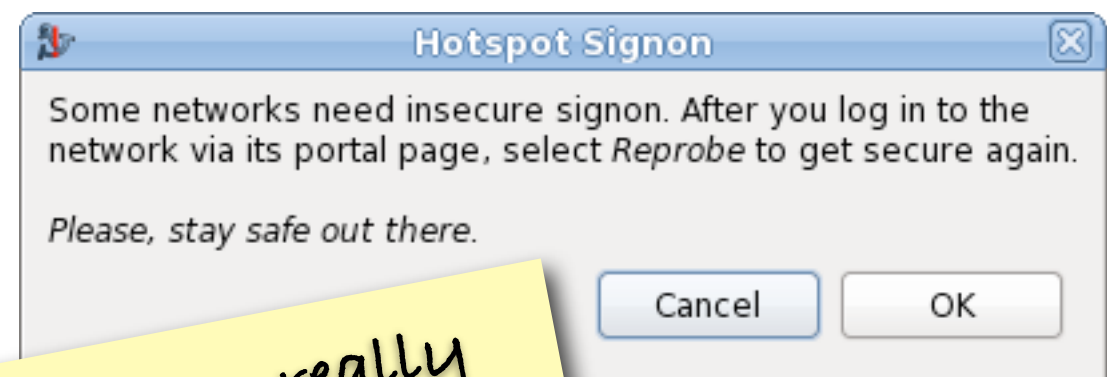
Trouble

No pop ups during
DNSSEC operations

only during
probing
operation



Probe fails to detect
DNSSEC support,
pop-up dialog.



For when you really
have to turn off
DNSSEC validation



Network Manager
Netconfig



WSALookupService
(XP, Vista, 7)



Scripts, ifconfig,
ipconfig



GTK2



Unity



Windows Native



Cocoa OS X



0.7 installer might fail;
ignore the failure message



Mailing list for user experiences

<http://open.nlnetlabs.nl/mailman/listinfo/dnssec-trigger>

Webpage

<http://nlnetlabs.nl/projects/dnssec-trigger/>



If you use our software then consider to support
NLnet Labs' mission Financially:

<http://www.nlnetlabs.nl/labs/contributors/>

NLnet
Labs

© 2006-2010 NLnet Labs