

An Open Internet Subdomain for HIP Deployment

HIP Piloting Requirements

Software with support for

- Host Identity Protocol (RFC 5201)
- Using ESP with HIP (RFC 5202)
- End-Host Mobility and Multihoming (RFC 5206)
- HIP Rendezvous Server (RFC 5203, RFC 5204)
- HIP DNS Extension (RFC 5205)

- HIP Proxies for Legacy Applications (RFC 5338) and GPRS/3G networks (MERCONE Project)
- HIP Firewall (HIIT)
- HIP Extensions for NAT (draft-ietf-hip-nat-traversal-05.txt)

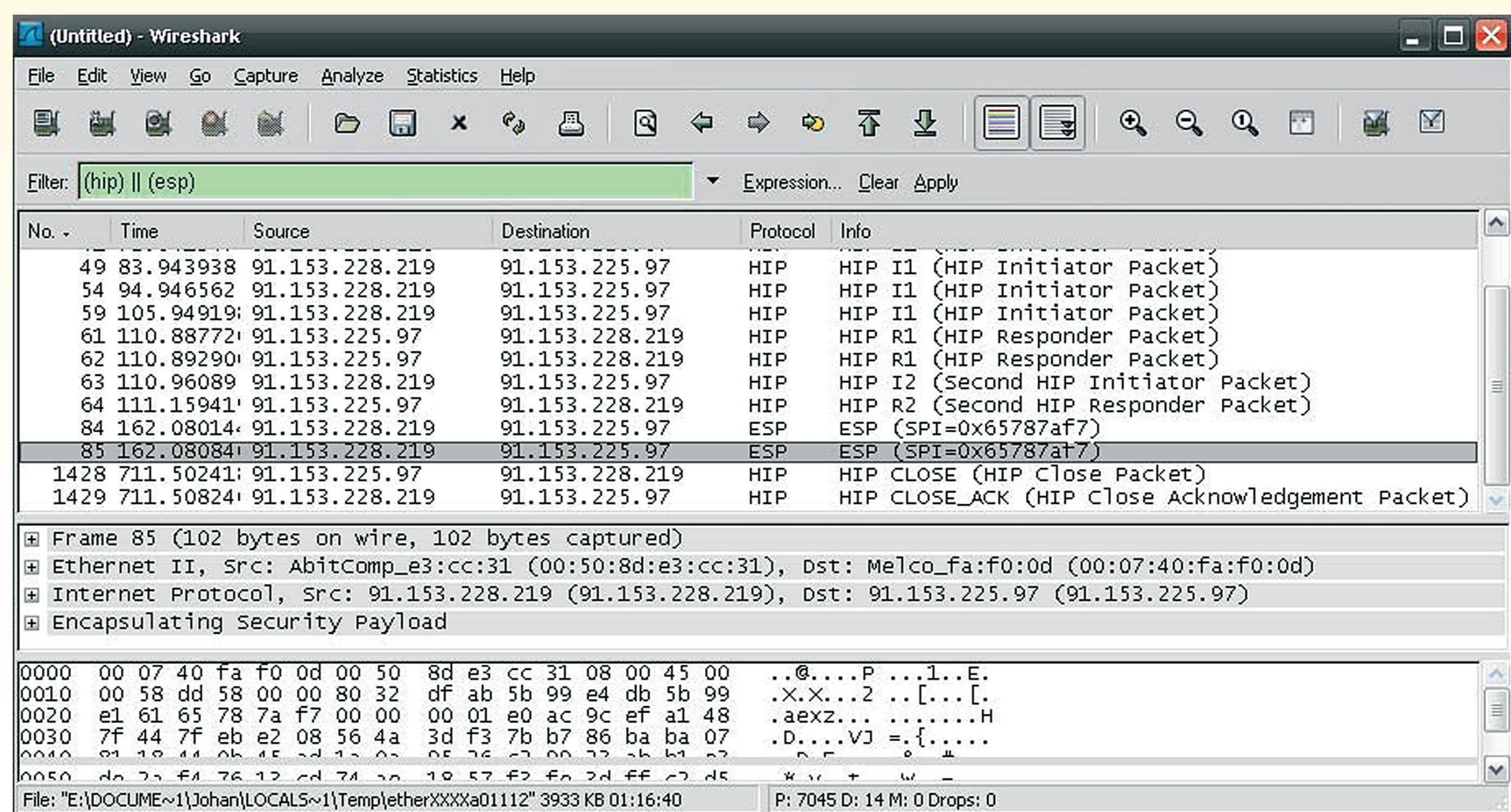
Debugging tools

- Logging
- Wireshark Patched with HIP Support

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HIP Communication (Open-HIP 0.5) between two Windows XP Computers Captured Using Wireshark

The test was first run with default configuration, with encryption enabled in ESP.



Open Internet Domain hip.arcada.fi

32 IP addresses starting at 193.167.36.192, Gateway: 193.167.36.222

hip.arcada.fi (193.167.36.221)

FreeBSD 6.1 (HIP patched kernel):

- hip4inter with publicly available RVS (Rendezvous Server)
- DNS server with HIP DNS Extension
- DHCP server for IP addresses 196.167.36.211...214
- WWW server with public WWW pages

rvs.hip.arcada.fi

DNS CNAME for public RVS in hip.arcada.fi.

wlan.hip.arcada.fi (193.167.36.220)

WLAN router

hipvshost.hip.arcada.fi (193.167.36.193)

Linux (Ubuntu 8.10): VMWare server for virtual host computers for general purpose use / internal testing.

Currently hosting:

- limu1.hip.arcada.fi (193.167.36.201), Linux (Ubuntu 8.10): InfraHIP with RVS, OpenVPN server
- limu2.hip.arcada.fi (193.167.36.202), Linux (Ubuntu 8.10): InfraHIP, VLC video streaming klient / server
- limu3.hip.arcada.fi (193.167.36.203), Linux (Ubuntu 8.10): InfraHIP
- oh1.hip.arcada.fi (193.167.36.204), Linux (Slackware 12.2.0 with kernel patch): OpenHIP with RVS
- wim.hip.arcada.fi (193.167.36.210), Windows XP SP3: OpenHIP, VLC video streaming klient / server
- fm1.hip.arcada.fi (193.167.36.196), FreeBSD 6.1: hip4inter with RVS
- fm2.hip.arcada.fi (193.167.36.197), FreeBSD 6.1: hip4inter
- fm3.hip.arcada.fi (193.167.36.198), FreeBSD 6.1: hip4inter

Installed HIP Software in the Open Internet Domain hip.arcada.fi

InfraHIP 1.03	http://infrahip.hiit.fi/index.php?index=download
OpenHIP 0.5.1	http://sourceforge.net/project/showfiles.php?group_id=132288
Hip4inter.net	http://hip4inter.net/ (requires license agreement)
Patch: HIP support to Wireshark	http://sourceforge.net/project/showfiles.php?group_id=132288&package_id=152401&release_id=501589
Patch: HIP RR support to the Bind DNS Server	http://openhip.cvs.sourceforge.net/openhip/patches/bind/