CCSP Hotspot Arpd Command Syntax Specification

Modification History

Revision	Date	Comments
1	09/30/2014	First Draft

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1 Introduction

The GRE-based Hotspot Architecture requires the process of snooping the GRE ARP REQUEST, building and sending back a GRE ARP REPLY packet.

This command utility is called "hotspot_arpd". The command line utility is used by the Utopia handle_gre.sh script. This specification defines the syntax of this command.

2 Design Considerations

This command snoops an ICMP packet with OUTPUT chain and outdev erouter0. It grabs the ICMP payload and check IP header and first 8 bytes of original datagram's data. It handles the ICMP type=3 and Code=3 Destination Unreachable and Port Unreachable.

Payload should be with the following format:

Type (1 octet) + Code (1 octet) + Checksum (2 octets)

Unused (2 octets) + Next-Hop MTU (2 octets)

IP Header and additional data (20+4+14+28)

3 Command Syntax

3.1 General

The command syntax is:

Usage: hotspot_arpd

          -i interface as tunnel endpoint, default erouter0

          -q NFQUEUE queue number

          -v display verbose log

          -d display debug log

4 References

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