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Describe tunnelling and encapsulation in mobile IP

written 5.8 years ago by

modified 22 months ago by

M meghalikalyankar (/u/14607/meghal • 2.1k)

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Subject: Mobile Communication and Computing

Topic: Mobile Network

Difficulty: Low



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1 Answer



written 5.8 years ago by

M meghalikalyankar (/u/14607/meghal • 2.1k)

Tunnelling and encapsulation

! [A tunnel establishes a virtual pipe for data packets between a tunnel entry and a tunnel endpoint. Packets entering a tunnel are forwarded inside the tunnel and leave the tunnel unchanged. Tunneling, i.e., sending a packet through a tunnel is achieved by using encapsulation

Encapsulation is the mechanism of taking a packet consisting of packet header and data and putting it into the data part of a new packet. The reverse operation, taking a packet out of the data part of another packet, is called de-capsulation.

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Types of Encapsulation Three types of encapsulation protocols are specified for Mobile IP:

- 1. **IP-in-IP encapsulation:** required to be supported. Full IP header added to the original IP packet. The new header contains HA address as source and Care of Address as destination.
- 2. **Minimal encapsulation:** optional. Requires less overhead but requires changes to the original header. Destination address is changed to Care of Address and Source IP address is maintained as is.
- 3. **Generic Routing Encapsulation (GRE):** optional. Allows packets of a different protocol suite to be encapsulated by another protocol suite.

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