

IPv4 Header Option For User Identification In CGN Scenario

draft-chen-intarea-v4-uid-header-option-00

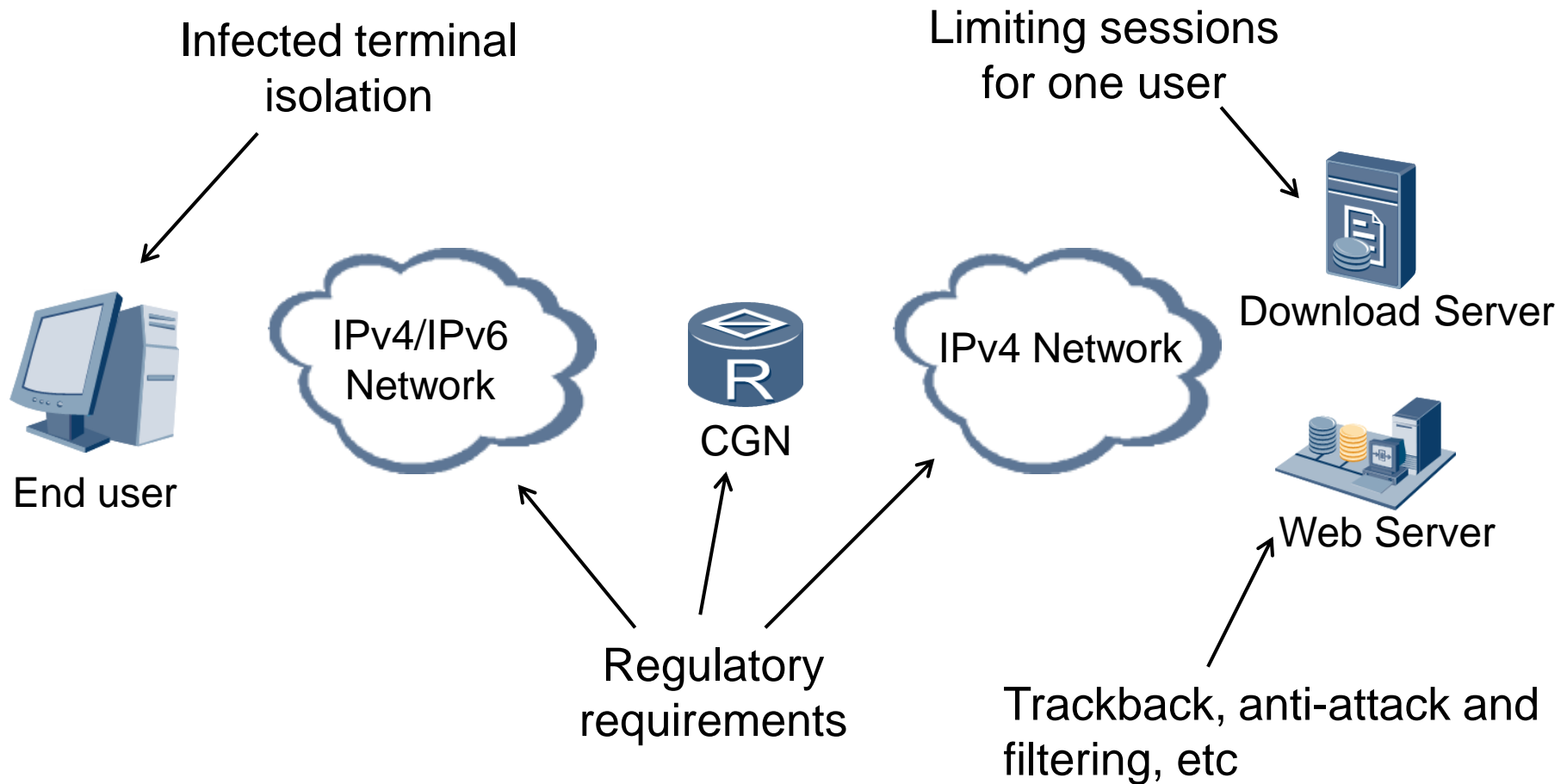
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User Identification In CGN Scenario (negatively affected by CGN)



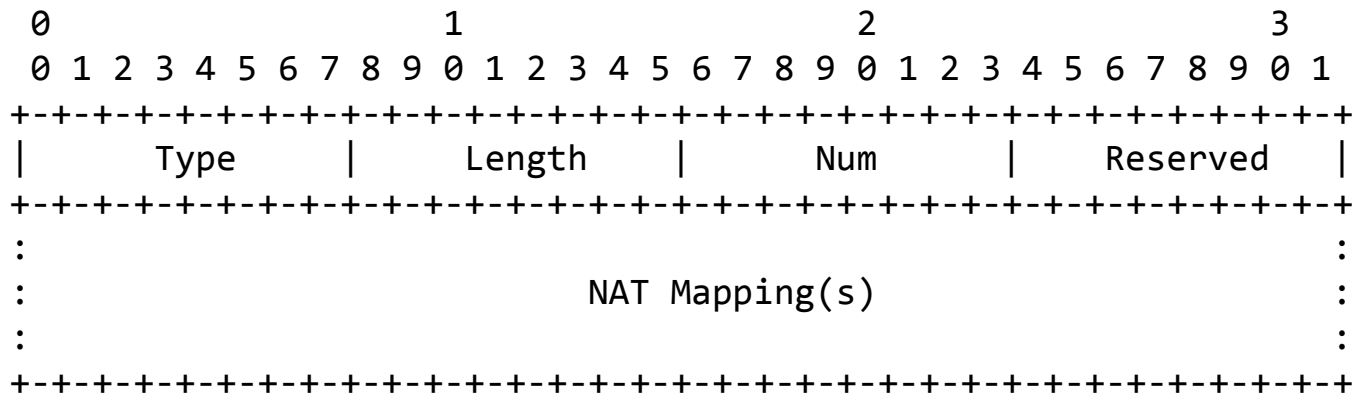
User Identification In CGN Scenario

■ Proposed solution:

- CGN inserts an IP option into IP packets before NAT translation to identify packet source

— source info could be IPv4 addr, IPv6 addr, tunnel ID + context ID, etc.

- Resolves regulatory and operational requirements in the source network.



User Identification In CGN Scenario

■ Pros

- Implemented at IP layer, supporting all IP based applications

■ Cons

- Packet dropped by middle routers
 - “fixing the situation would be feasible, and would involve a minority of edge ASes.”

<http://www.eecs.berkeley.edu/Pubs/TechRpts/2005/EECS-2005-24.html>

- Packets with any options will be processed by CPU in some existing router implementations

Solution: routers to forward packets with this option directly, without passing the packets to CPU