

Gateway Based Trust Relationship Between the Endpoint and the Intermediate Node

draft-du-panrg-gateway-based-trust-relationship-00

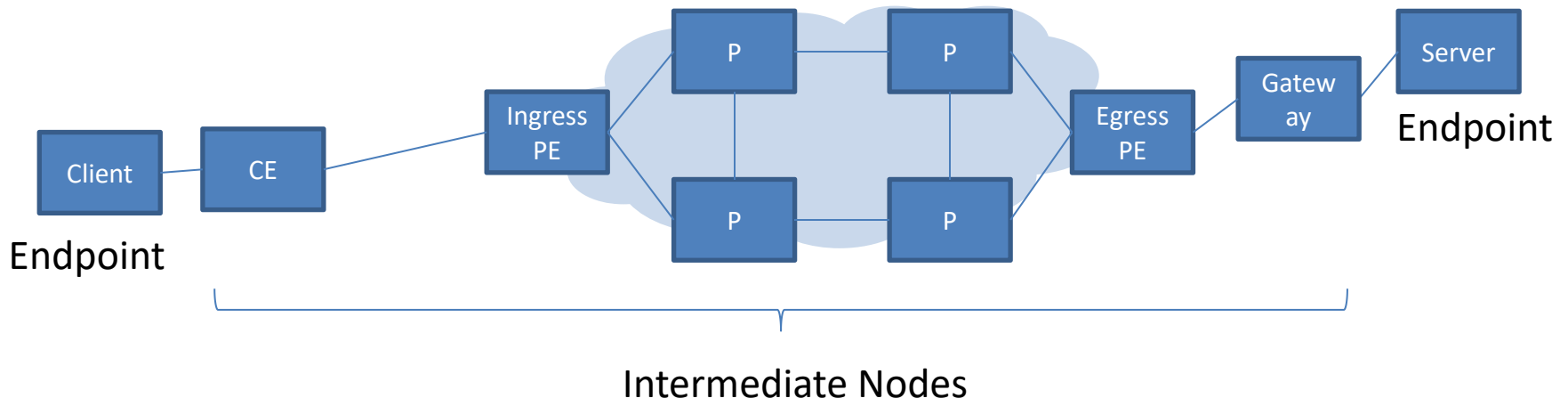
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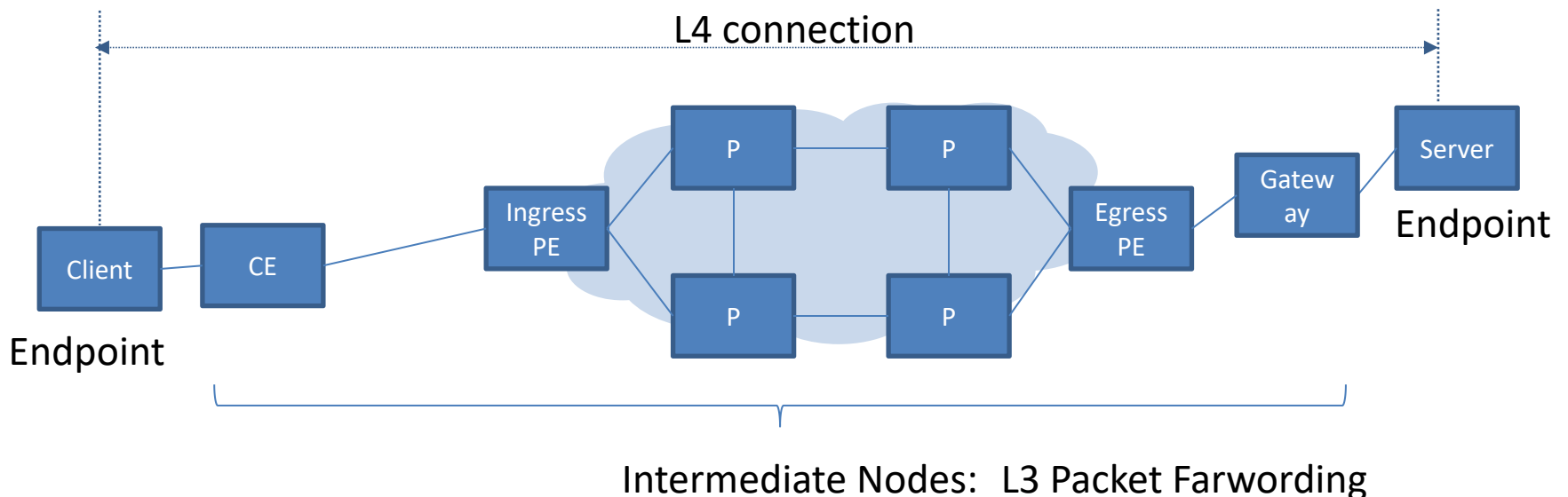
Two Problems

- If getting some information from the network,
 - Can the Endpoint trust the information?
- If receiving a suggestion from the Endpoint,
 - Can the Intermediate Node trust the suggestion, or trust that it is from a valid user?



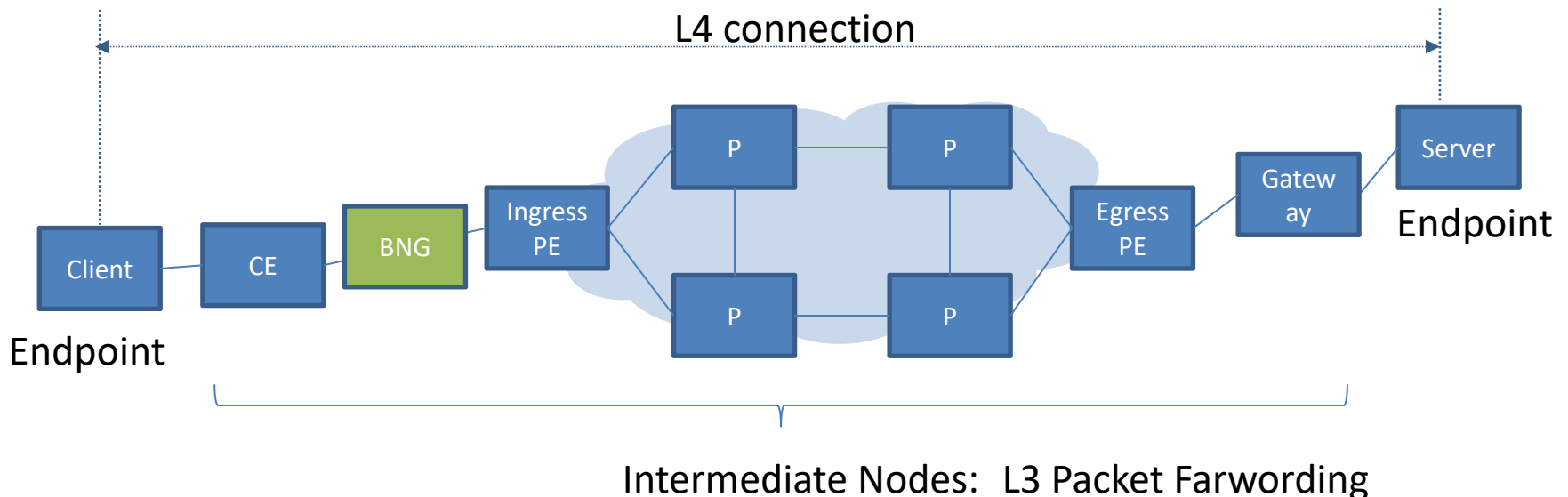
The Reason

- EndPoint: supporting L4 connections
- Intermediate Node: can only support L3 packet forwarding
- Hard to establish a trust relationship between them



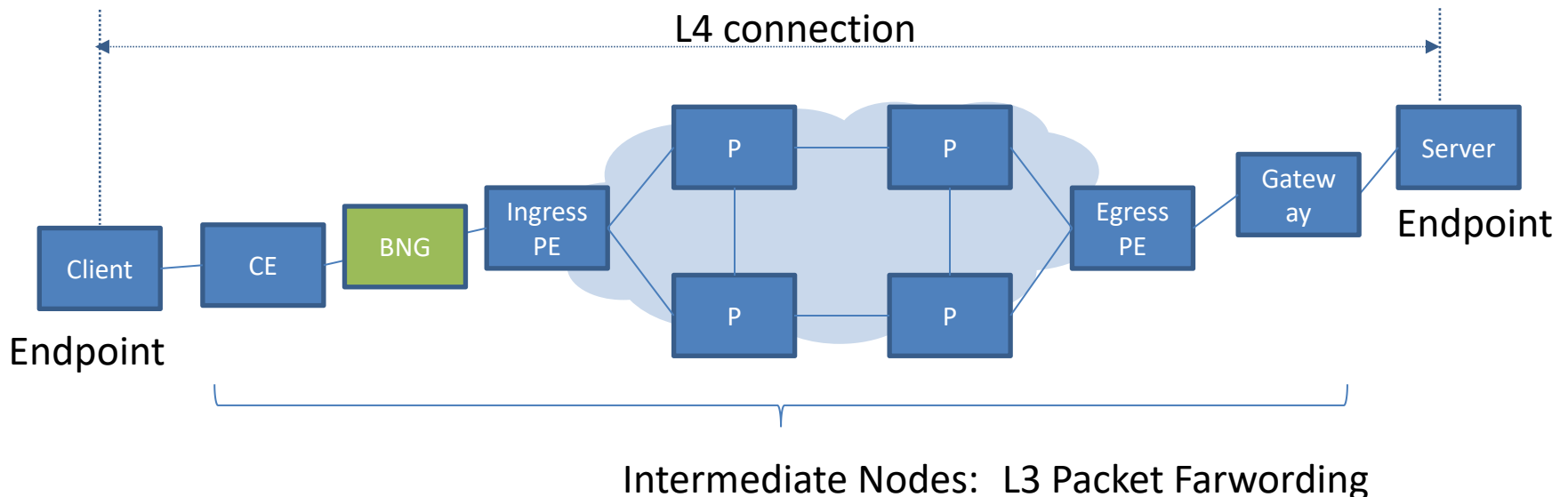
Observations

- We find that the gateway of the Endpoint is able to maintain a per-connection state and a trust-relationship for each user.
 - And the Ingress PE/Headend is the main node to select a path for a flow



A Potential Solution

- From the Ingress PE to the Client
 - Ingress PE makes a signature for the message
- From the client to the Ingress PE
 - BNG makes a signature instead of the Client
 - or put it into an IPSec between the BNG and the Ingress PE



Thanks for listening and
Welcome for comments