

Weighted Highest Random Weight (HRW) and its Applications

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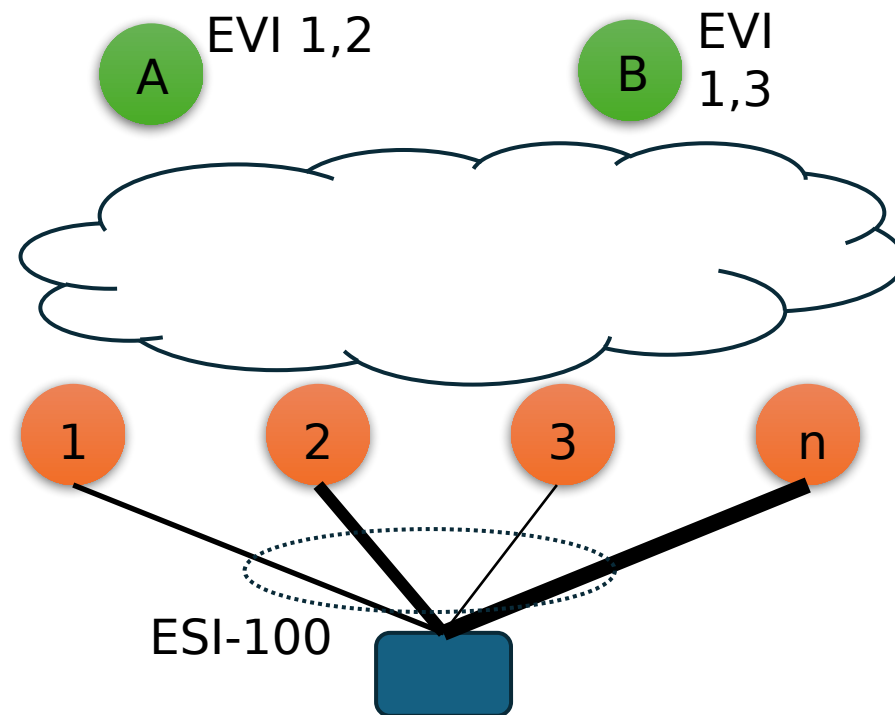
History

1. Initial work Was presented in IETF 104
2. Got adopted in to working group Feb 2023

Recap Problem Statement

- There are multiple use cases where the EVPN network is required to perform load balancing.
 - EVPN DF Election in A/A Deployments with DMZ link bandwidth
 - DF election among peer with heterogeneous bandwidth availability towards access network
- There is a Requirement to have load-balancing hash choices that not only distribute the load evenly in the network but also take care of different other parameters (Bandwidth, Weight, Preference....).
- Minimum disruption to ongoing service in case of new addition or removal of device in network

EVI 1,2,3.....
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Recap Proposed Solution

- Extension to well-known HRW algorithm such that
 - Need to re-compute the score for only the server whose weight changed. Other's scores do not change
 - minimal disruption properties of the HRW
 - When a Node is added/removed or changed, only the scores for that node change

Next Step

- Subject: Re: [Shepherding AD review] review of draft-ietf-bess-evpn-mh-pa-10 ([mailarchive](#)) Raised requirement to have more clarification around HRW.
- Since this draft is a working group draft and deals with HRW, it would be beneficial to include clarifications here. We will work with Gunter/Wen to address the comments in this draft if there is real need.

Thanks