Data Center Network Project 4 Proposal

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A. Design and explanation

In this project, I would like to implement a mechanism like device discovery in ONOS which learns the topology of the current network. Based on the topology, tenancy configuration, and leaf-to-host configuration, the controller can determine whether forward the frame and the path to the destination.

B. Benefits of multi-tenancy in data center

1. Shared infrastructure leads to lower costs.
2. Tenant isolation gives a level of security.
3. Service assurance and faster updates for tenants
4. Tenants can create their instances without affecting others.