

Next-Generation Cloud Networking: Optimizing Data Center in Google Cloud with VXLAN & EVPN

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| |  |  |  | | --- | --- | --- | | A group of men standing in front of a black machine  Description automatically generated | | **Capstone Team:**   * Branden Ulm, Project Manager​ * Branden Behrens, EVPN Specialist ​ * Cole Melson, Network Engineer * Lucas Rupp, Network Engineer​ * Michael Long, Cloud Architect​ * Javier Perez-Sanchez, Automation Engineer​   **Sponsor:**  Arista Networks  William Goss – System Engineer | | **Project Overview:**  In this project, the Arista Capstone team was tasked with creating a virtual Leaf/Spine Data Center environment hosted in Google Cloud that leverages VXLAN and EVPN protocols for Layer 2 extensions across a CLOS network. To manage the configuration of network devices from a single location, all devices were integrated into Arista’s CloudVision SaaS environment.  The goal of this project was to not only to complete the above objectives, but also to help grow the industry through the use of non-proprietary solutions and test whether upper-level students can grasp the concepts of VXLAN and EVPN for a potential new course at UW-Stout, to be co-developed by the Arista team. | ***Leaf/Spine Environment with VXLAN & EVPN***    ***Virtual Hardware and Software***  A screenshot of a computer  Description automatically generated | | |