

# Weekly Report 4

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## Papers Read

- Greenberg, Albert, James R. Hamilton, Navendu Jain, Srikanth Kandula, Changhoon Kim, Parantap Lahiri, David A. Maltz, Parveen Patel, and Sudipta Sengupta. “VL2: a scalable and flexible data center network.” In ACM SIGCOMM Computer Communication Review, vol. 39, no. 4, pp. 51-62. ACM, 2009.

## Summary

The paper describes about VL2, a network architecture to scale huge data centers with support for uniform high capacity between servers, performance isolation between services and Ethernet Layer-2 semantics. Its design is driven by data collected from traffic and error logs for large cloud services. It can be easily deployed since it works on top of existing hardware and does not require any new hardware stack. The efficiency it achieves is 10X compared to traditional data center architectures without any extra increment in cost or other trade-offs.