Megaport Cloud Router.

Creating an Optimised Cloud Connectivity Ecosystem with Megaport Cloud Router in the e-Commerce Industry.

Megaport

About the Company

A leading cloud-based document processing and delivery software provider for e-commerce engaged Megaport services to build out an optimised cloud connectivity ecosystem that would enable easy, fast networking between their MPLS network and between multiple cloud platforms and web applications that power their business.

Case Study Snapshot

❯ Enabled a multicloud network architecture with Megaport Cloud Router (MCR) that allows them to route directly between AWS and Oracle Cloud without having to hairpin traffic back to their WAN.

❯ Gained the ability to connect to more than one hyperscale cloud provider over a single link with MCR managed routing.

❯ Developed a cost and resource efficient strategy for their multicloud and cloud to cloud connectivity with Megaport compared to connecting via an MPLS carrier.

Challenges

The company has an MPLS network in place which is operated through a carrier with limited cloud connectivity options. With critical workloads needing to be delivered to and between multiple cloud platforms - like AWS and Oracle Cloud - and back to their existing network, the team were looking for an optimised networking solution to achieve this. Flexibility is always key for companies seeking a competitive edge within their industry. The ability to change and flex with this growing and evolving business - particularly within their cloud environments - was important, along with the need for the freedom and choice of adding and removing cloud connections along the way. With their MPLS provider, this was a tricky process and their carrier would hold them to their MPLS terms for each connection, therefore not providing the flexibility the company was looking for.

Key points

❯ The company needed a faster and more comprehensive network option for connecting to, and between, their critical cloud platforms.

❯ Making changes to their cloud connections, such as scaling their bandwidth up and down quickly, was a key demand as the company wanted more flexibility and control over their workloads.

❯ The team needed to connect their AWS and Oracle Cloud instances without the typical complexities of building out new physical infrastructure in a data centre and/or having to route their traffic back to hardware to connect the two environments - this process can bring about latency issues.

❯ The ability to route directly between web applications in AWS and Oracle Databases - without routing back over their WAN - would enable the company to get the best performance out of their workloads.

Solution

The company used Megaport Cloud Router (MCR) to facilitate an optimised virtual network between their various cloud platforms and applications.

Key points:

- The company completed a connection via their carrier to a Megaport enabled data centre in Ashburn, VA. This involved an on-net location for the carrier with a 1G interface.

- The team then enabled MCR in Northern Virginia via their Megaport account.

- Next, they established BGP from their MPLS provider edge to their MCR.

- From here, the team created multiple Virtual Cross Connects (VXCs) via their MCR to AWS and then created AWS public VIFs attached to Virtual Private Gateways (VGW) in AWS US-East Region VPC. Peering was managed by the MCR between the MCR and VGW.

- They created a VXC connecting via Oracle Fast Connect to Ashburn OCI region. They then established peering from MCR to Oracle Dynamic Routing Gateway.
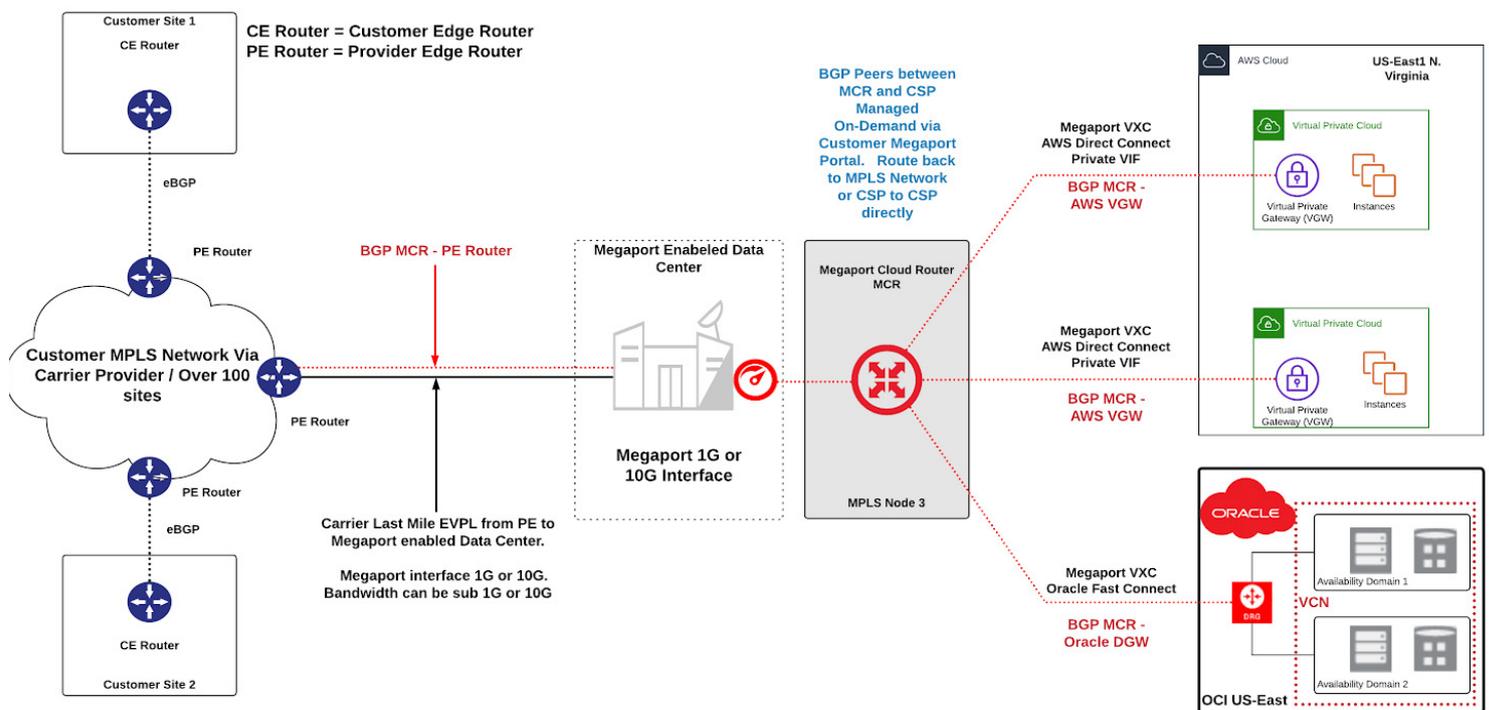

- The team are able to have one peer with an MPLS provider and MCR to support cloud connectivity back to their WAN.

- MCR gives the company the ability to add connections to multiple hyperscale cloud providers on demand via Megaport's automated portal.

- They have enabled a powerful multicloud network architecture whereby they can now route directly between AWS and Oracle Cloud without having to hairpin traffic back to their WAN.

- They have gained the ability to connect to more than one hyperscale cloud provider over a single link with MCR managed routing.

- Connecting to multiple cloud platforms via MCR was a more cost-efficient strategy than connecting to a single cloud platform via the MPLS carrier. The company saved money and resources by choosing a Network as a Service provider for their connectivity.

- The company now has the ability to add further AWS VPCs on demand without having to go through the complex process of setting up peering with their MPLS carrier.

Future Plans

In the future, the company will consider adding Microsoft Azure to their cloud footprint. With Megaport, this can easily be done simply by adding another VXC from their network to Microsoft Azure. The team are also looking to make overall changes to their network with Megaport at the core of the migration. The flexibility of Megaport services unlocks a multitude of possibilities for the company to expand their existing solution and integrate new services.
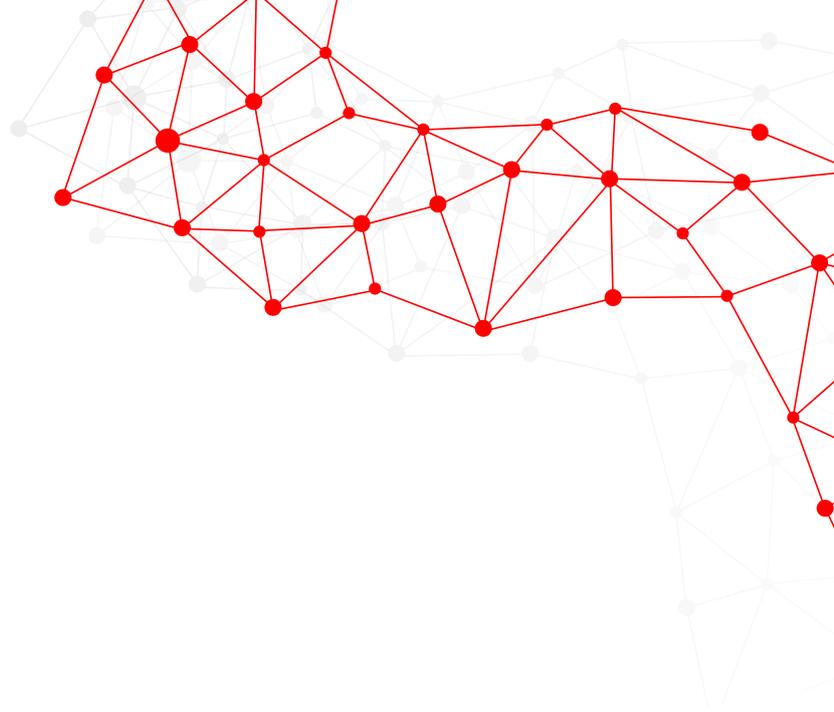
More information

We make connectivity easy

Megaport is the highly scaled Network as a Service (NaaS) organisation utilising 100 Gbps technology to deliver dedicated access to cloud services. The Company's Software Defined Network (SDN) enables the interconnection of enterprises and service providers across hundreds of data centre locations around the globe. Fast, flexible, and dynamic, Megaport's connectivity solution is transforming the way businesses reach leading cloud services from Microsoft, Google, Oracle, Amazon Web Services, Nutanix, SAP, IBM, Salesforce, and Alibaba.

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