



REIMAGINE MULTICLOUD

A TOOLKIT FOR
FASTER, SIMPLER
CONNECTIVITY.



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EASIER MULTICLOUD IS POSSIBLE.

95% of IT leaders say multicloud is a strategic priority in 2022. But is your multicloud network ready for the years ahead?

There are so many benefits of having multicloud in 2022: almost infinitely scalable compute and storage, artificial intelligence (AI) and machine learning (ML) capabilities, and the ability to take advantage of innovative services today's hyperscalers offer.

But as you expand your multicloud, there are downsides – the more clouds you're using, the more complex and difficult it becomes to manage. And the time, effort, and cost required to run your growing network can add up quickly.

To manage costs, optimize performance, and benefit fully from the flexibility and scalability of multicloud networking, here are some best practices to consider.

MAKING THE MOST OF MULTICLOUD.

Considering these best practices when deploying your multicloud environment can help you greatly reduce costs, while improving the security and reliability of your network.

Choose private multicloud connectivity for security and performance

Using internet-based VPN tunnels is a common multicloud connectivity method, but it's far from the most cost-efficient. A flexible virtual cloud routing service can instead:

- Virtualize your multicloud connectivity to reduce costs associated with the purchase, setup, and maintenance of physical network infrastructure.
- Allow you to scale up and scale down your bandwidth on demand, in line with Cloud Service Provider (CSP) allowances, so you only pay for what you use.
- Increase your bandwidth to a higher capacity. While internet VPN tunnels often hit capacity at 1.25 Gbps, requiring multiple connections to achieve higher bandwidth, a Megaport Cloud Router (MCR) will provide connections up to 10Gbps.

Architect for redundancy, high availability, and business continuity

Having a single point of failure in your multicloud network can spell disaster for your enterprise. Deploying a reliable virtual cloud router enables you to:

- Quickly and easily run redundant links to your cloud providers simultaneously, so that if one connection fails, there's another instantly ready to handle your traffic. We always recommend that our customers use both a primary and secondary connection.





- Aim for 100% uptime SLAs to protect your network from downtime.
- Access advanced IP routing capabilities so you can privately peer between providers as needed.

Enhance your cloud-to-cloud performance

When it comes to achieving an efficient multicloud network, routing between clouds is just as important as routing to and from clouds. Using a virtual cloud router, you can:

- Connect your clouds privately and eliminate hairpinning to and from your on-premises environment when migrating workloads, significantly lowering latency and improving network speed.
- Manage your data migration between clouds online.
- Reduce the amount of physical infrastructure you have to manage.

Boost your security with private connectivity

As cyberattacks become more advanced, so should your multicloud network. Avoid your data traversing the public internet, which can be vulnerable to cyberattacks. Instead, opt for a virtual routing service that complies with global and local compliance regulations that prove their committed to protecting your data, including ISO/IEC27001: Information Security Management.

Increase your agility by using on-demand NaaS

As your business grows, your multicloud network will likely grow, too. Future-proof your multicloud setup so your business and your network are ready for scale.

- Look for a global and neutral Network as a Service (NaaS) platform that offers a large number of physical and virtual Points of Presence (PoPs) to support your expansions and reduce the need to provision and maintain physical equipment across a growing number of locations.
- Choose a cloud router that is already API-integrated with major CSPs such as AWS, Microsoft Azure, and Google Cloud Platform to facilitate near real-time connectivity and end-to-end setup.

Simplify your network management

Making your growing multicloud network easier to manage gives your team more time to focus on the important things.

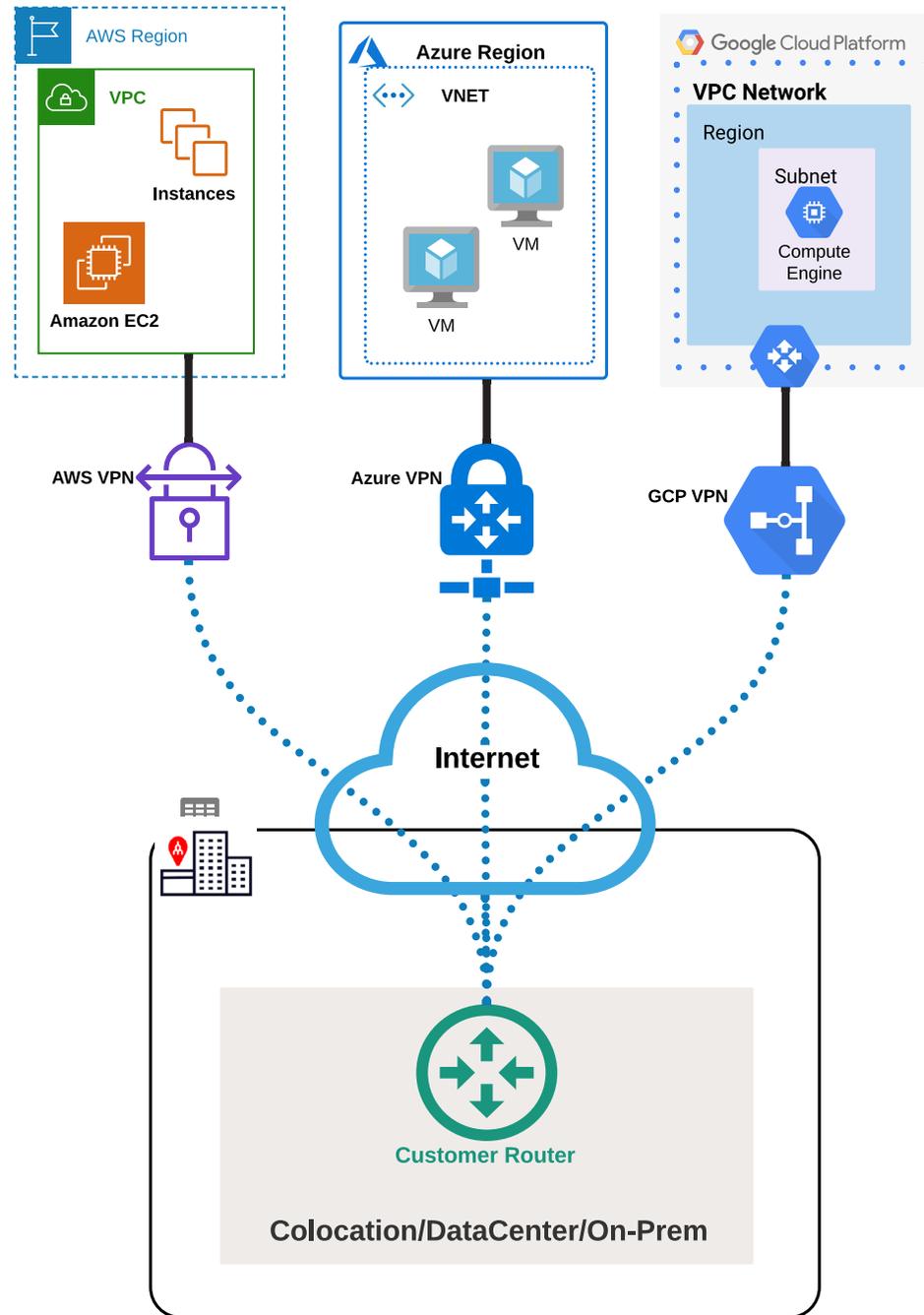
- Use a service provider that has built its platform from the ground up with on-demand provisioning via an online portal, giving you the unhindered ability to make network changes on-demand and define your own routing.
- Simplify your network management further by using data center operators and managed service providers that offer a multi-tenant Software as a Service (SaaS) workload orchestration platform, like Megaport ONE.



EXAMPLES OF OPTIMIZED MULTICLOUD.

Before: Multicloud with a VPN

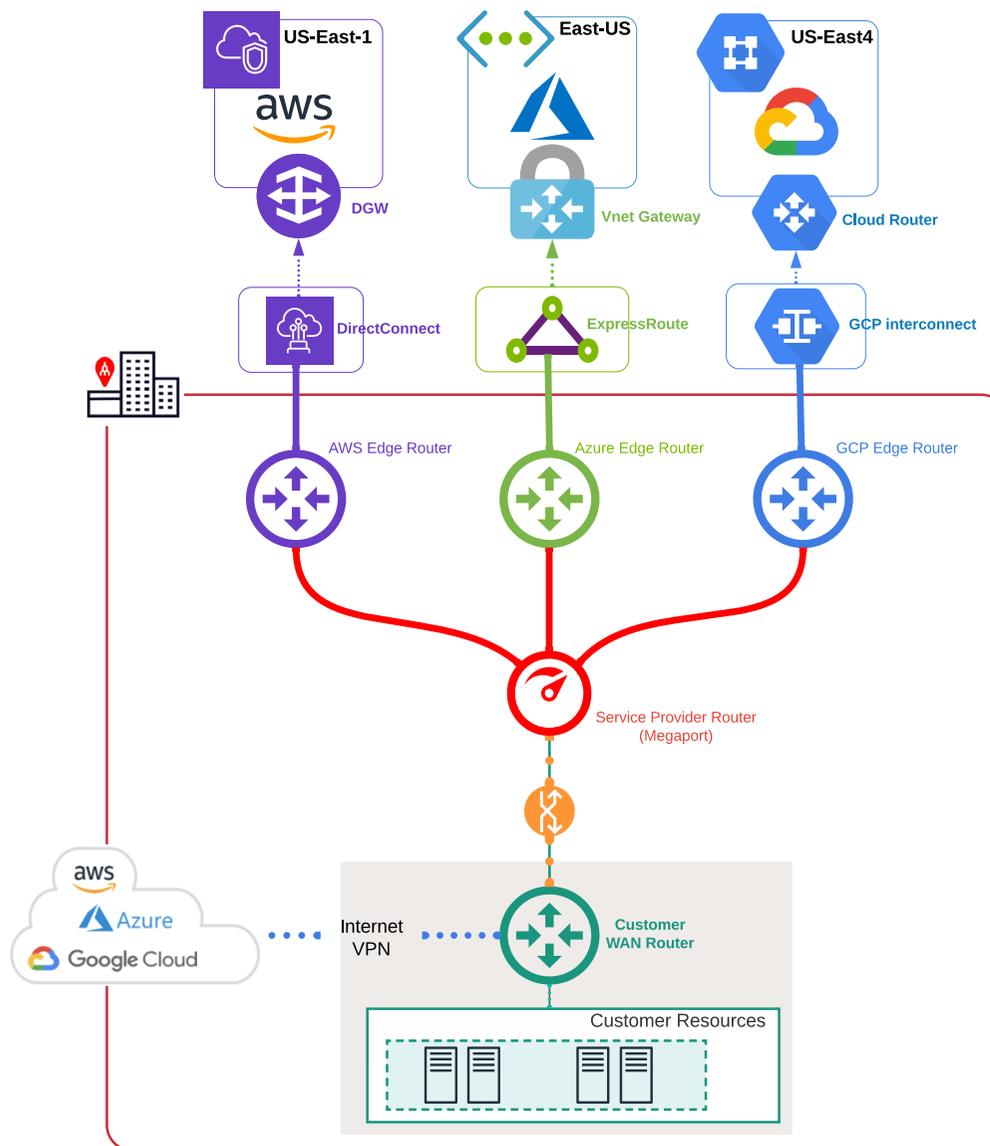
This is a typical example of a business using internet-based VPNs for its multicloud setup. Traffic that needs to migrate between clouds will need to hairpin via equipment in the business' data center or on-premises infrastructure



EXAMPLES OF OPTIMIZED MULTICLOUD.

After: Multicloud with a cloud router

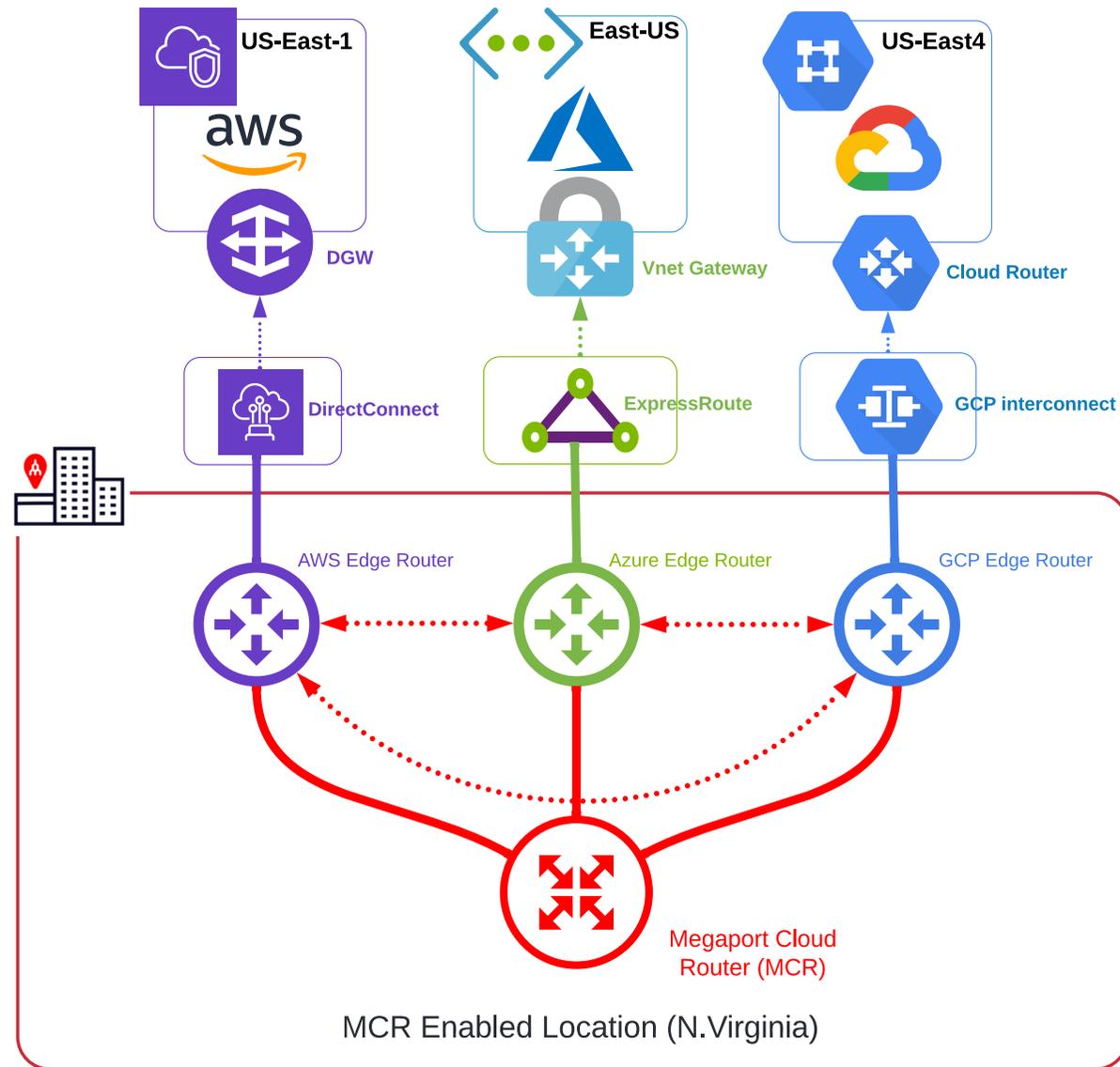
Multicloud with a cloud router connects your clouds at Layer 3 for scalability, security, and simplified network management. Here's an example of how you can use a cloud router to virtually connect AWS, Microsoft Azure, and Google Cloud Platform.



EXAMPLES OF OPTIMIZED MULTICLOUD.

After: Cloud-to-cloud routing with MCR

Use MCR for high-performance cloud-to-cloud routing. Provision more MCRs as your multicloud network grows and interconnect them to integrate your network. Here's an example of how you can interconnect multiple AWS and Google Cloud Platform PoPs with multiple MCRs.



“With Megaport, we know we have dedicated lines — and that’s vital for ensuring reliable levels of latency between clouds, especially when we’re expecting higher volumes of traffic. I don’t have to set up big routers to handle peaks; I can just add bandwidth to our Virtual Cross Connects through the Megaport portal.”

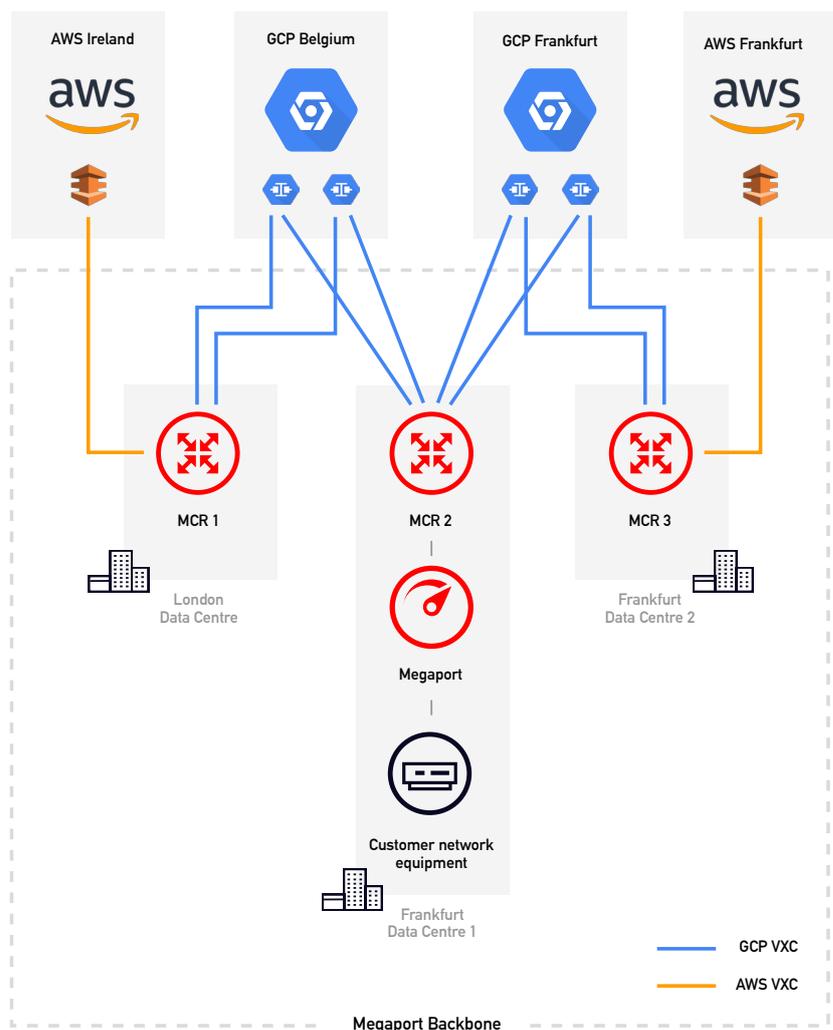
– Staff Engineer, a leading online travel broker

USE CASE

How a leading online travel agency used MCR for multicloud cloud-to-cloud routing

Before using MCR, a leading online travel broker was struggling to move data effectively between its AWS and Google Cloud environments. With up to 100 million daily search queries on its site, public internet connectivity was insufficient to support workload migrations and peaks in demand.

Now, with MCR, the company benefits from secure and reliable cloud-to-cloud connectivity to support its traffic fluctuations and workload migrations, as well as stable latency that can support peaks in demand.



MAKE MULTICLOUD EASIER WITH MCR.

Megaport Cloud Router (MCR) provides virtual routing capabilities for on-demand private connectivity at Layer 3 from key routing zones around the world. Without physical infrastructure, customers can leverage cloud-to-cloud networking, private peering between leading public cloud, IaaS, and SaaS providers, and direct connectivity to any provider on the Megaport Software Defined Network. There is no need to own and maintain equipment, and no public IP addresses or Autonomous System Numbers to procure. MCR is a standalone product but can be used in conjunction with physical ports.



Route Filtering

Easily control which routes are advertised without acquiring multiple MCRs or investing in customer premises equipment.



Virtual Networking

Born in the cloud? Access advanced IP routing capabilities with virtualized infrastructure.



Managed Layer 3 Connectivity

Connect to any cloud or service provider and service providers on the Megaport Ecosystem.



Cloud to Cloud Networking

Seamless, agile connectivity between Cloud Service Providers without the need for physical infrastructure.



Hybrid Cloud at Layer 3

Instantly connect your private infrastructure to leading public IaaS, PaaS, and SaaS providers on the Megaport Ecosystem



Localized Traffic

Regionalize your routing decisions within a zone for higher network performance.

More information



Megaport Enabled Locations



Access our Doc Portal



Access Megaport Portal



Megaport Videos



Megaport Cost Estimator



Contact Us

Reimagine connectivity.

Megaport is a leading provider of Network as a Service (NaaS) solutions. The company's global Software Defined Network (SDN) helps businesses rapidly connect their network to other services via an easy-to-use portal or our open API. Megaport's network offers greater agility, reduced operating costs, and increased speed to market compared to traditional networking solutions. Megaport partners with the world's top cloud service providers, including AWS, Microsoft Azure, and Google Cloud, as well as the largest data centre operators, systems integrators and managed service providers in the world. Megaport is an ISO/IEC 27001-certified company.

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