



Multicloud Network Blueprints

Build your ideal multicloud network.

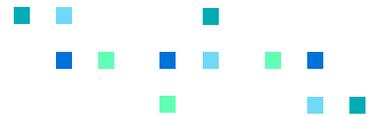


Multicloud Network Blueprints

Through Megaport's Software Defined Network (SDN), enabling multicloud has never been easier for your enterprise. By leveraging Megaport's dedicated, private connection, connecting to your suite of clouds is fast, secure, and scalable. With cloud-to-cloud connectivity, your data can move between your various clouds directly, without having to stop off at a data center first – reducing latency and boosting application performance.

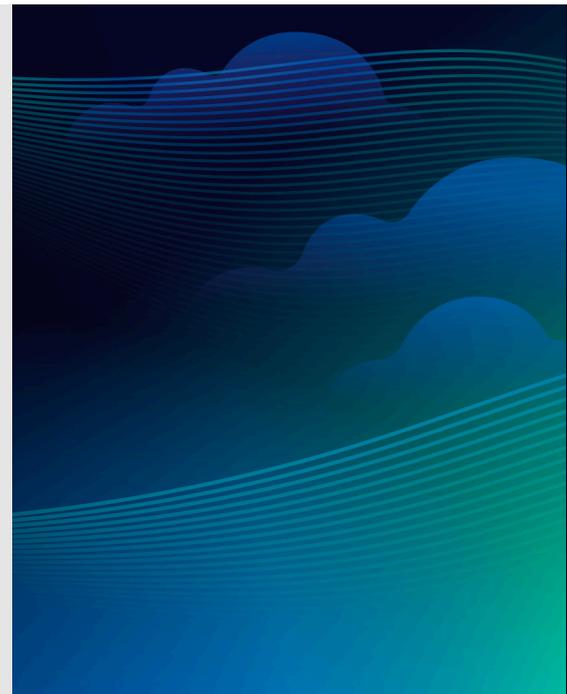
These blueprints are designed to help your enterprise visualize the ideal network architecture required for your operations, depending on your unique needs. While we've chosen leading cloud service providers (CSPs) to illustrate, these architectures can be adjusted to include the variety of cloud services used by your enterprise.

Need a bit more help? If you can't find the right architecture below or want to discuss your specific needs, please reach out to our knowledgeable team of Solution Architects. We can get you started on your multicloud journey and answer any other network virtualization questions you may have.



WHICH DESIGN IS RIGHT FOR YOU?

- 1. Do you need connectivity back to a data center?**
View the hybrid multicloud network blueprints.
- 2. Do you need connectivity back to a data center, and need your clouds to be able to communicate with each other?**
View the hybrid cloud-to-cloud network blueprints.
- 3. Are you cloud-native (i.e. do not rely on data centers) but want to establish cloud-to-cloud traffic?**
View the cloud-native multicloud network blueprints.
- 4. Do your branches/site locations need direct multi-cloud access?**
View the branch-to-multicloud network blueprints.





1. Hybrid Multicloud Design

A hybrid multicloud design allows your enterprise to connect your data center(s) to multiple clouds without the need for traffic to flow directly between the clouds.

The following scenarios depict different levels of built-in redundancy.



BENEFITS

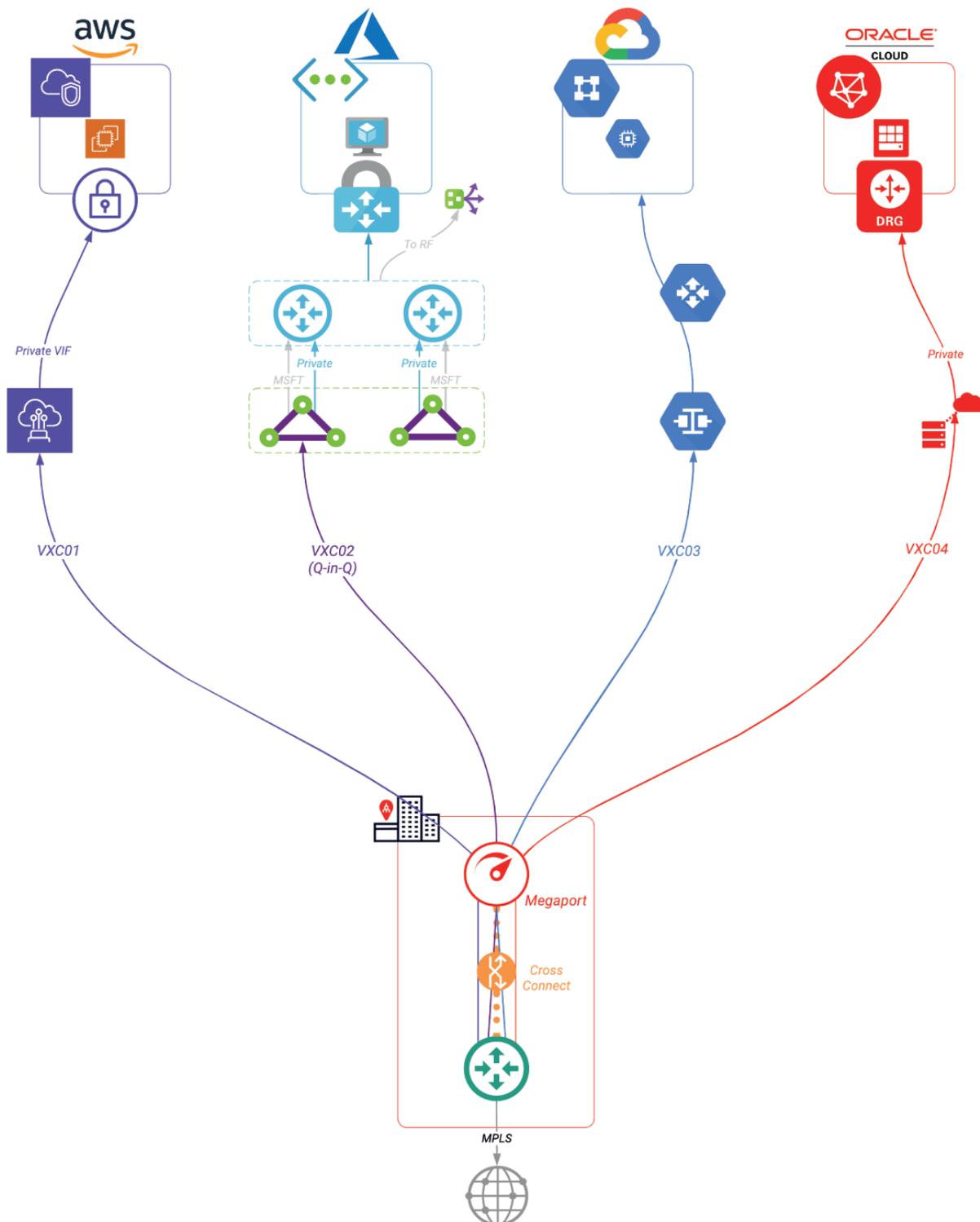
- Private, scalable connectivity to clouds of your choice
- Connectivity deployed within minutes
- Data does not travel via internet VPN tunnel, which can result in poor latency, inconsistent bandwidth, and exposure to public internet.
- Different levels of resilience can be facilitated easily by choosing diverse ports, data centers, and locations or regions



HYBRID MULTICLOUD DESIGN

BLUEPRINT 1:

Hybrid multicloud, non-redundant

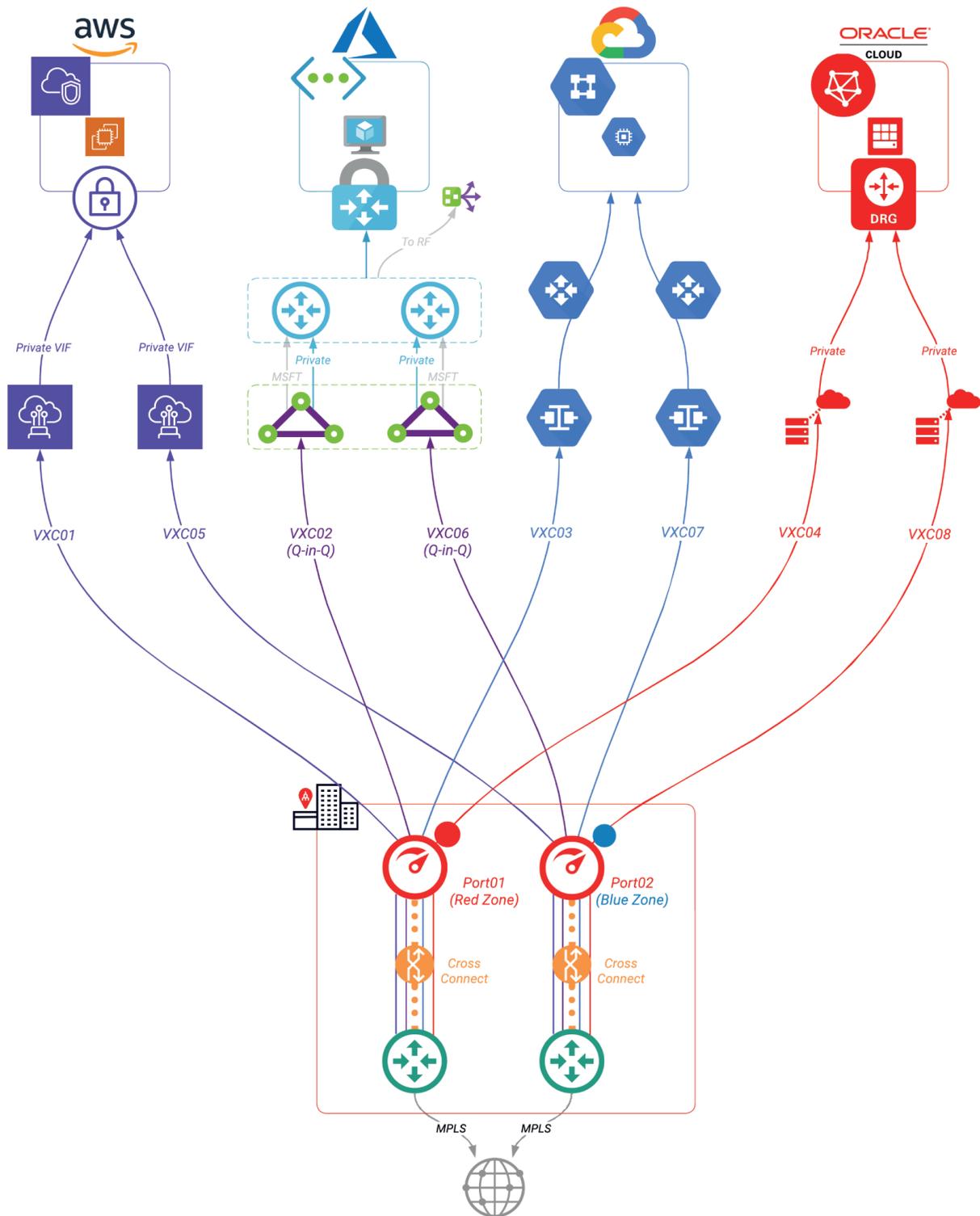




HYBRID MULTICLOUD DESIGN

BLUEPRINT 2:

Hybrid multicloud, redundant
(single location)

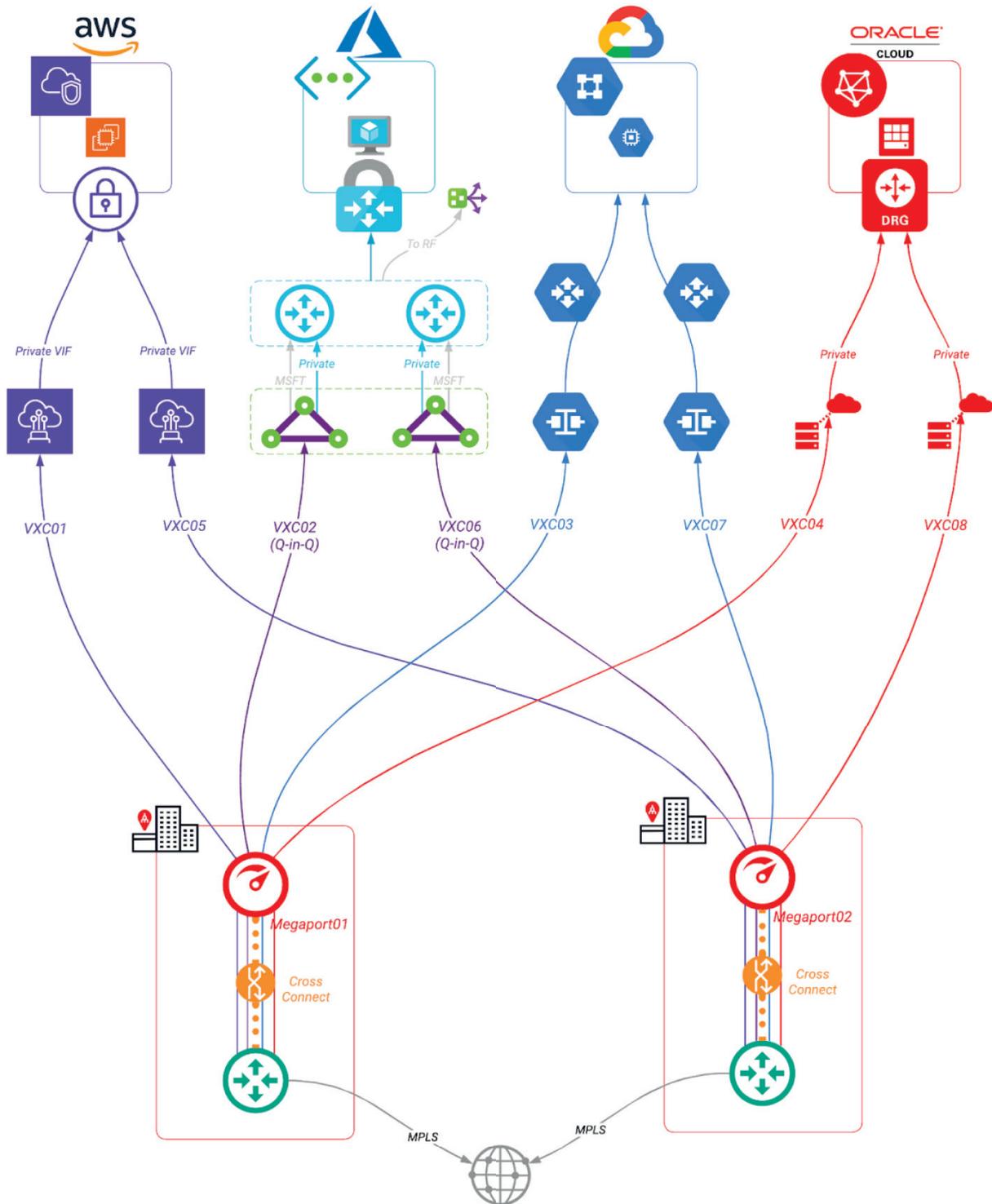




HYBRID MULTICLOUD DESIGN

BLUEPRINT 3:

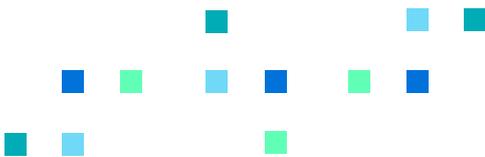
Hybrid multicloud, additional redundancy
(multiple locations or regions)





2. Hybrid Cloud-to-Cloud Design

Hybrid cloud-to-cloud design involves connecting your data center(s) to multiple clouds and enabling these clouds to communicate with each other.



BENEFITS

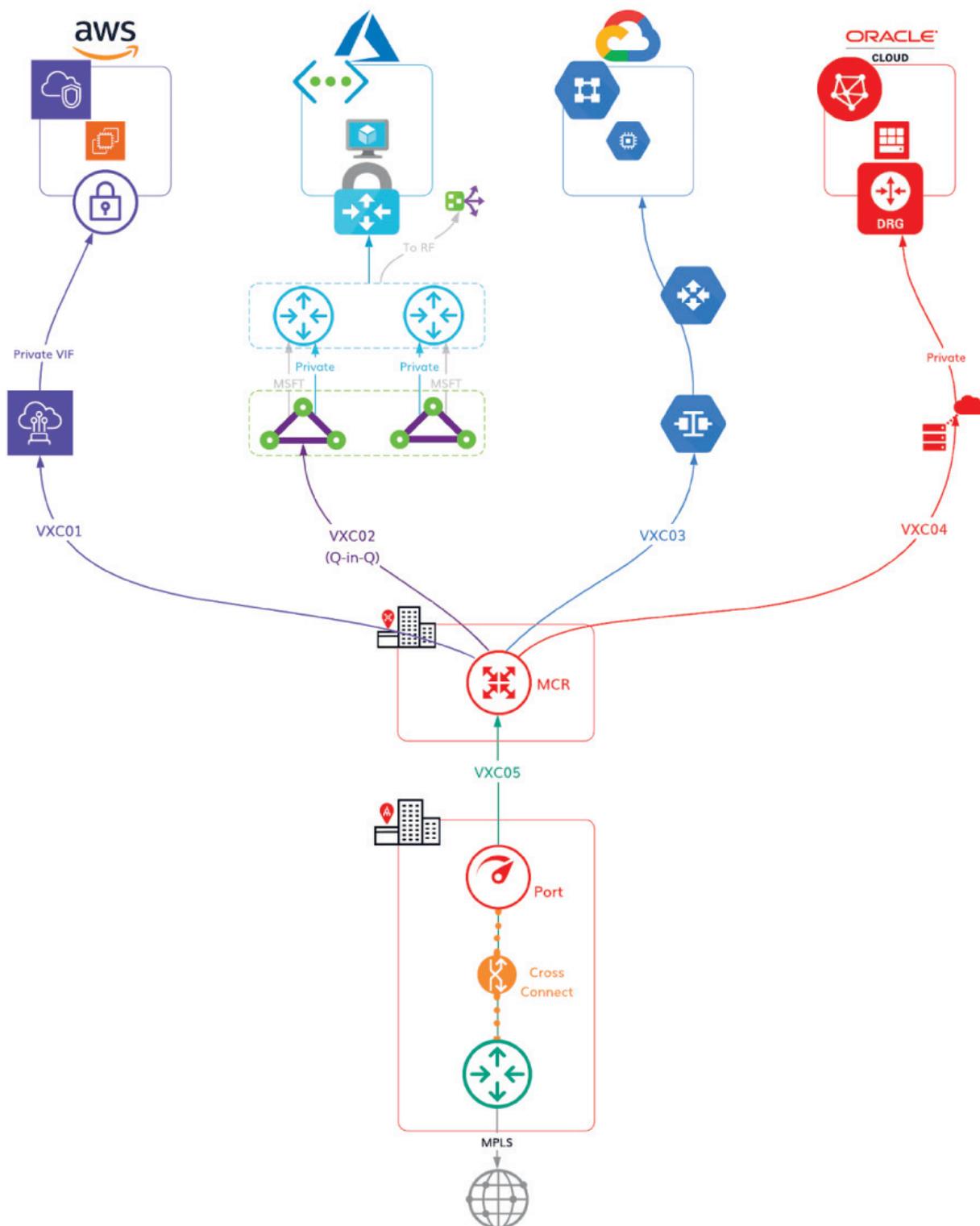
- Reduced latency due to removed need to hairpin traffic via a data center
- Significantly lowered egress fees
- No physical hardware required – instead, routing is virtual
- Improved network performance due to virtual routing typically being in the same vicinity as the cloud on-ramp
- Reduced latency due to removed need to hairpin traffic via a data center
- Fine-tuned control through route filtering capabilities
- Different levels of resilience can be facilitated easily by choosing diverse ports, data centers/locations, or regions



HYBRID CLOUD-TO-CLOUD DESIGN

BLUEPRINT 4:

Hybrid cloud-to-cloud,
non-redundant

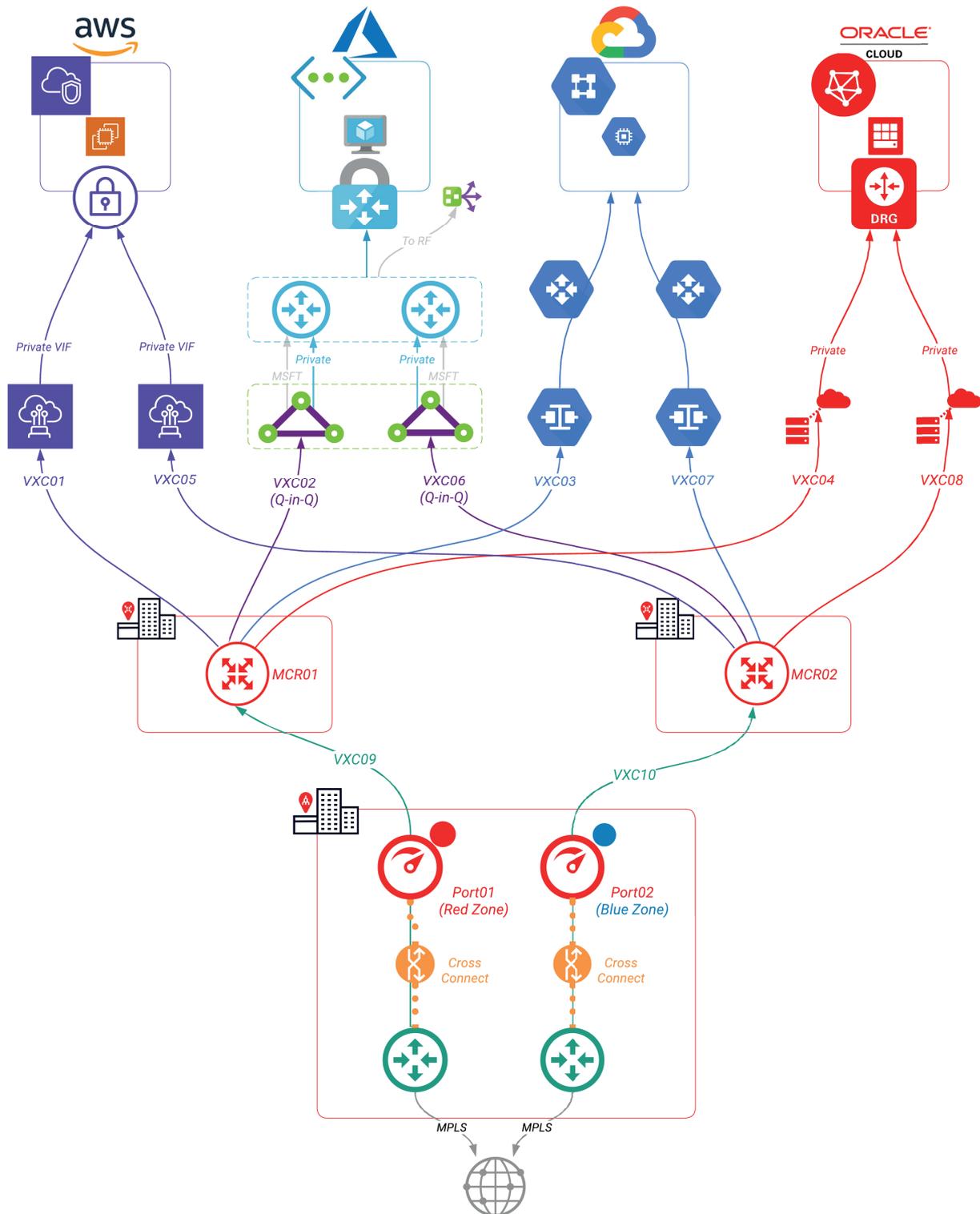




HYBRID CLOUD-TO-CLOUD DESIGN

BLUEPRINT 5:

Hybrid cloud-to-cloud, redundant
(single location)

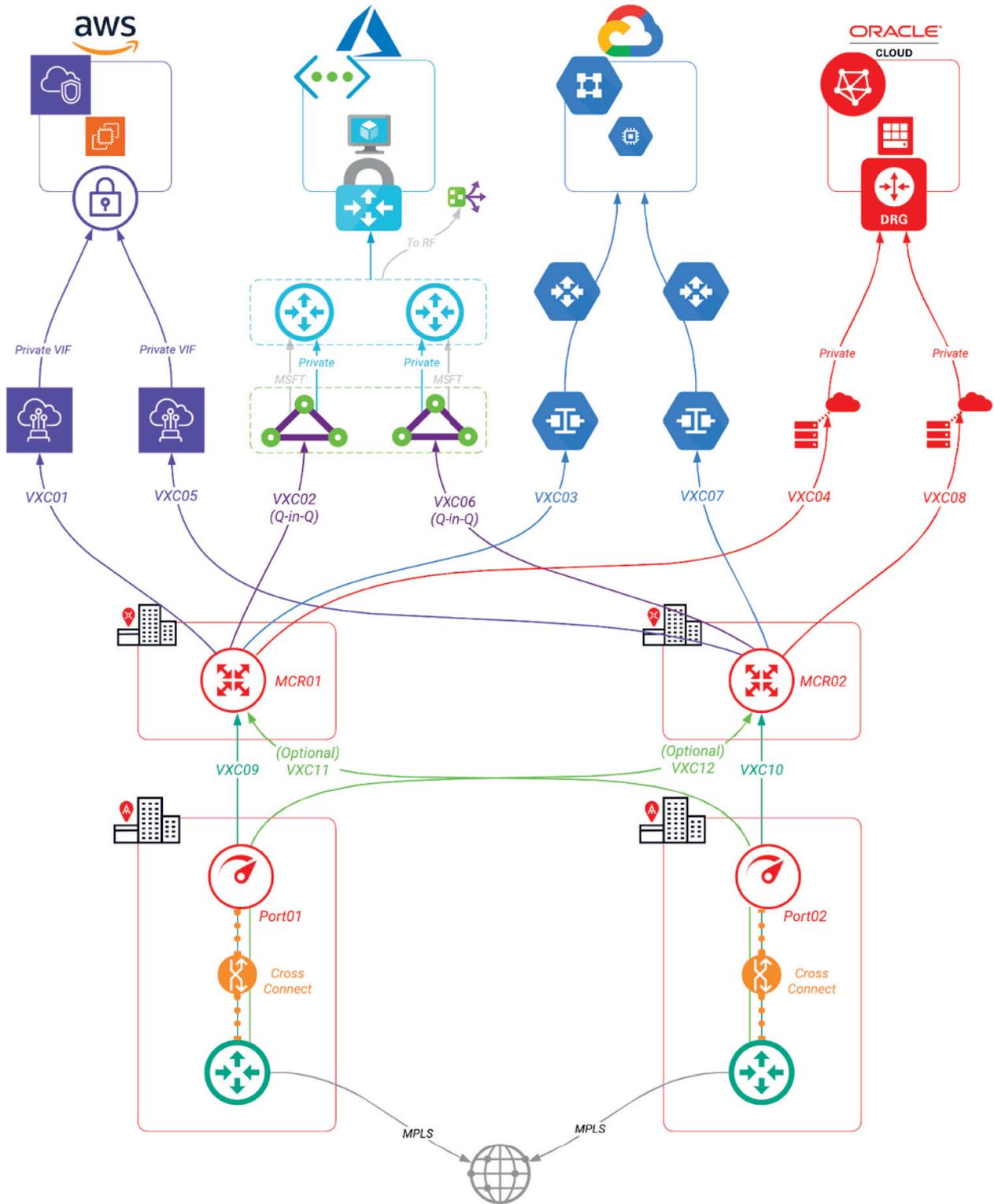




HYBRID CLOUD-TO-CLOUD DESIGN

BLUEPRINT 6:

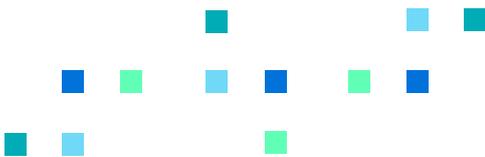
Hybrid cloud-to-cloud, additional redundancy
(multiple locations or regions)





3. Cloud-Native Multicloud Design

Cloud-native multicloud designs are a typical setup for a born-in-the-cloud organization that doesn't require connectivity back to a data center and benefits from a fully virtualized cloud architecture.



BENEFITS

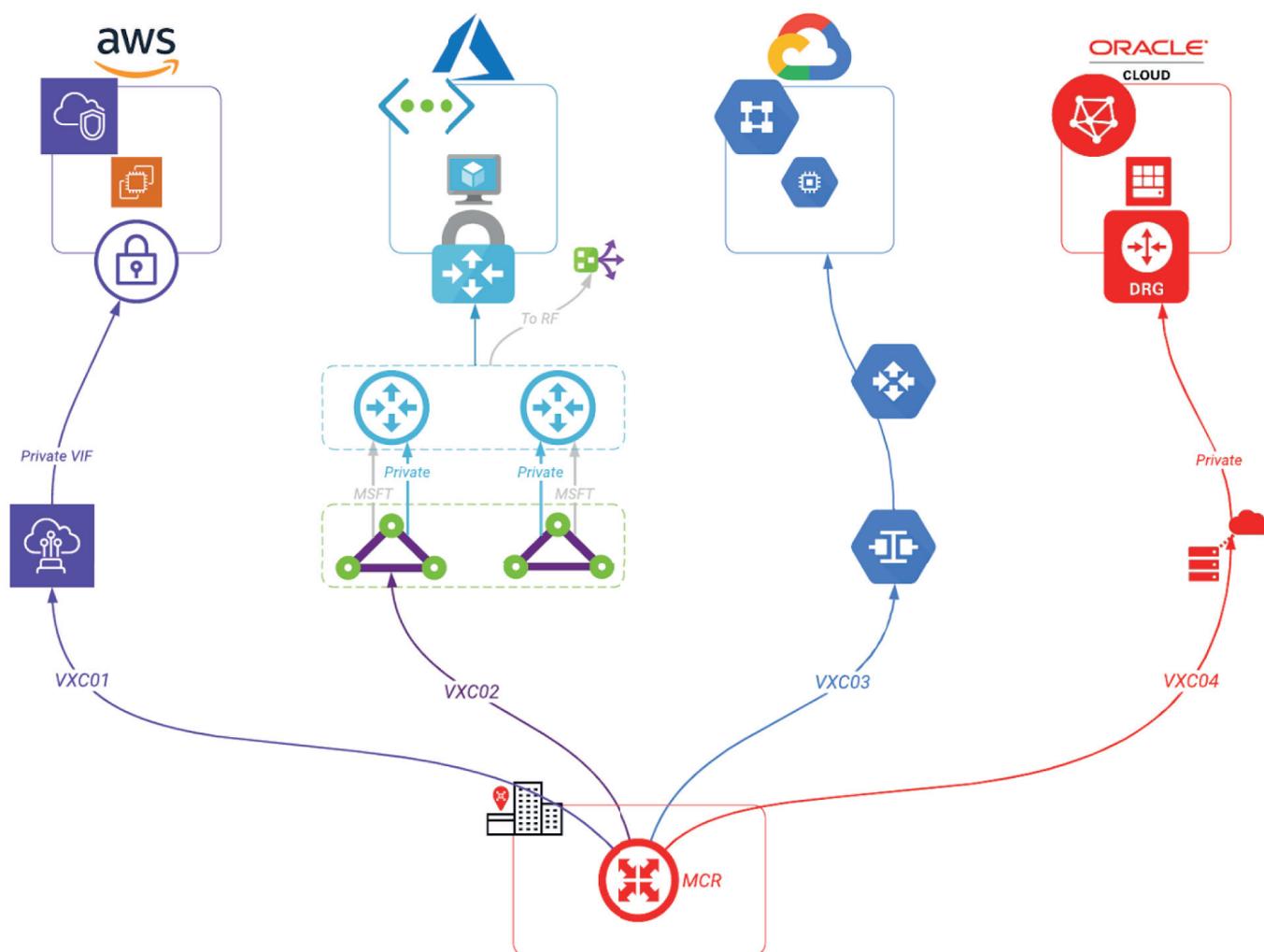
- Private, scalable connectivity to clouds of your choice
- Connectivity deployed within minutes
- Different levels of resilience can be facilitated easily



CLOUD-NATIVE MULTICLOUD DESIGN

BLUEPRINT 7:

Cloud-native, non-redundant

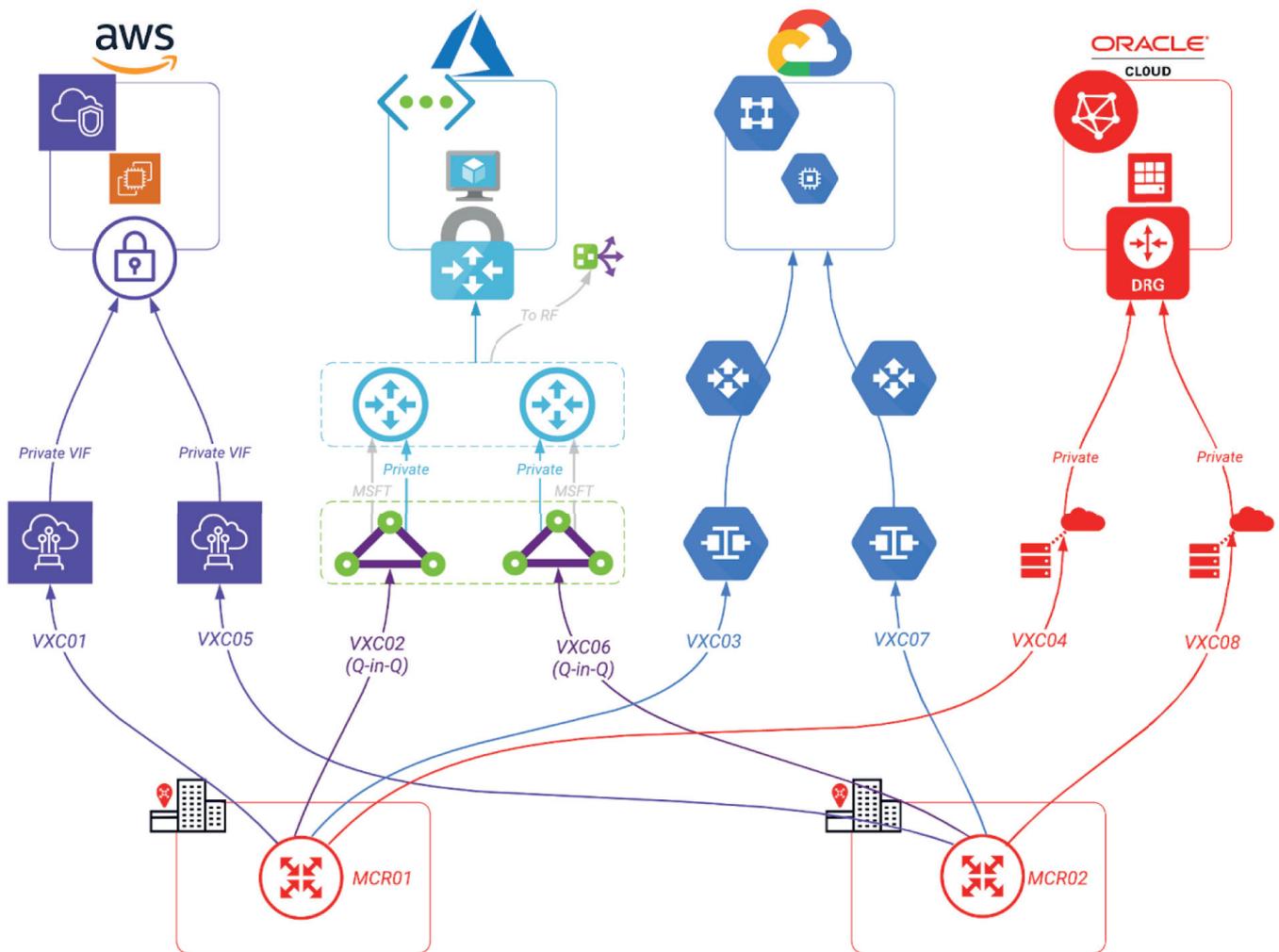




CLOUD-NATIVE MULTICLOUD DESIGN

BLUEPRINT 8:

Cloud-native, redundant





4. Branch-to-Multicloud Network Design

Branch-to-multicloud connectivity extends private, dedicated cloud access to the edge by providing branches or site locations with direct access to cloud environments, without the need to connect through a data center first.

Ability to host SD-WAN, NextGen Firewall and virtual routing solutions on the Megaport Virtual Edge device.



BENEFITS

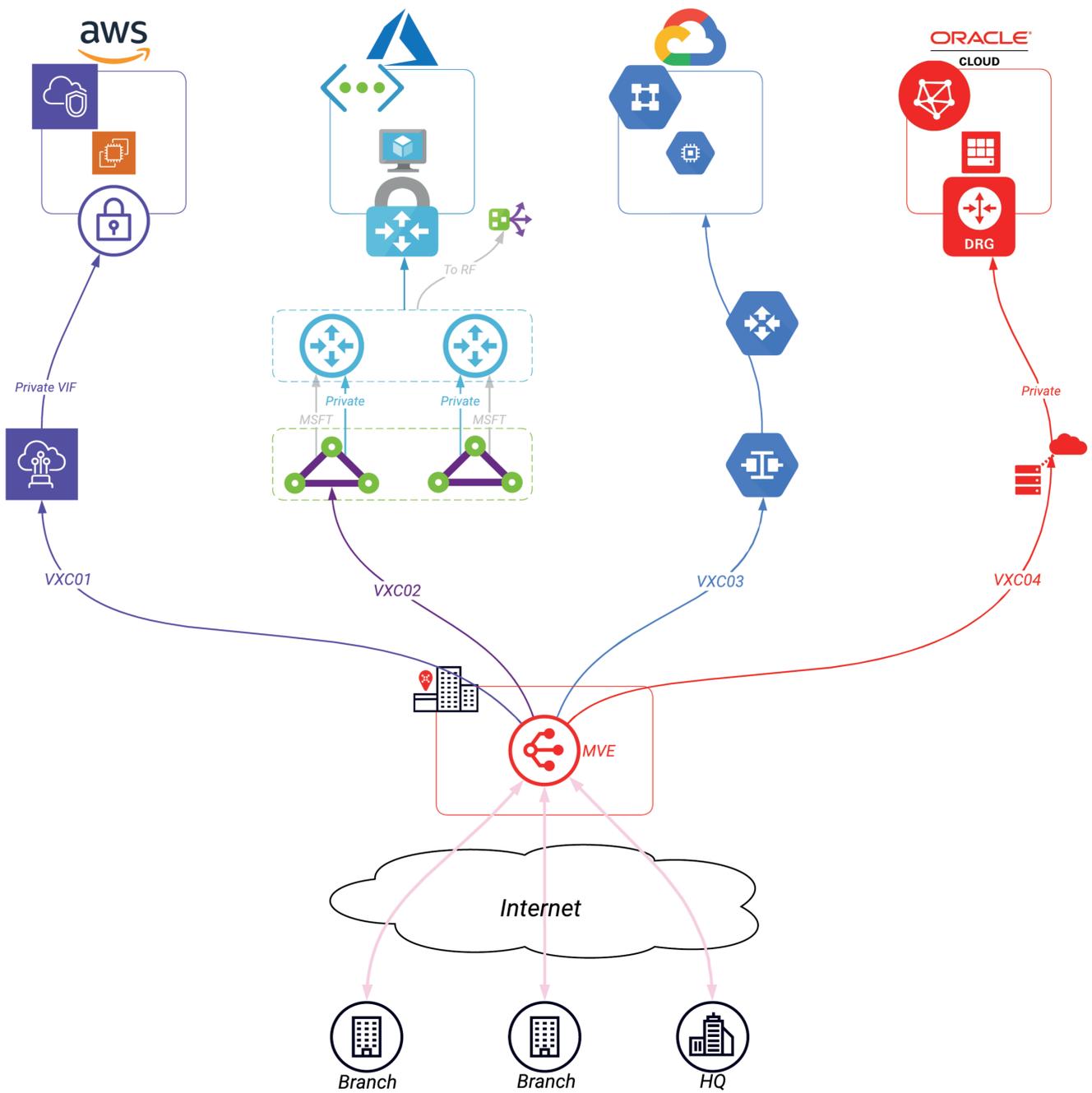
- More reliable cloud access with lower latency due to reduced internet paths
- Reduced data egress fees
- Bolstered network security
- Dedicated, individualized private cloud services for branches instead of shared cloud access with other branches
- Different levels of resilience can be facilitated easily by choosing diverse ports, data centers/locations, or regions
- Possibility for single internet underlay or dual internet and private underlay as per preference



BRANCH-TO-MULTICLOUD NETWORK DESIGN

BLUEPRINT 9:

Branch-to-multicloud, not connected to data center, non-redundant

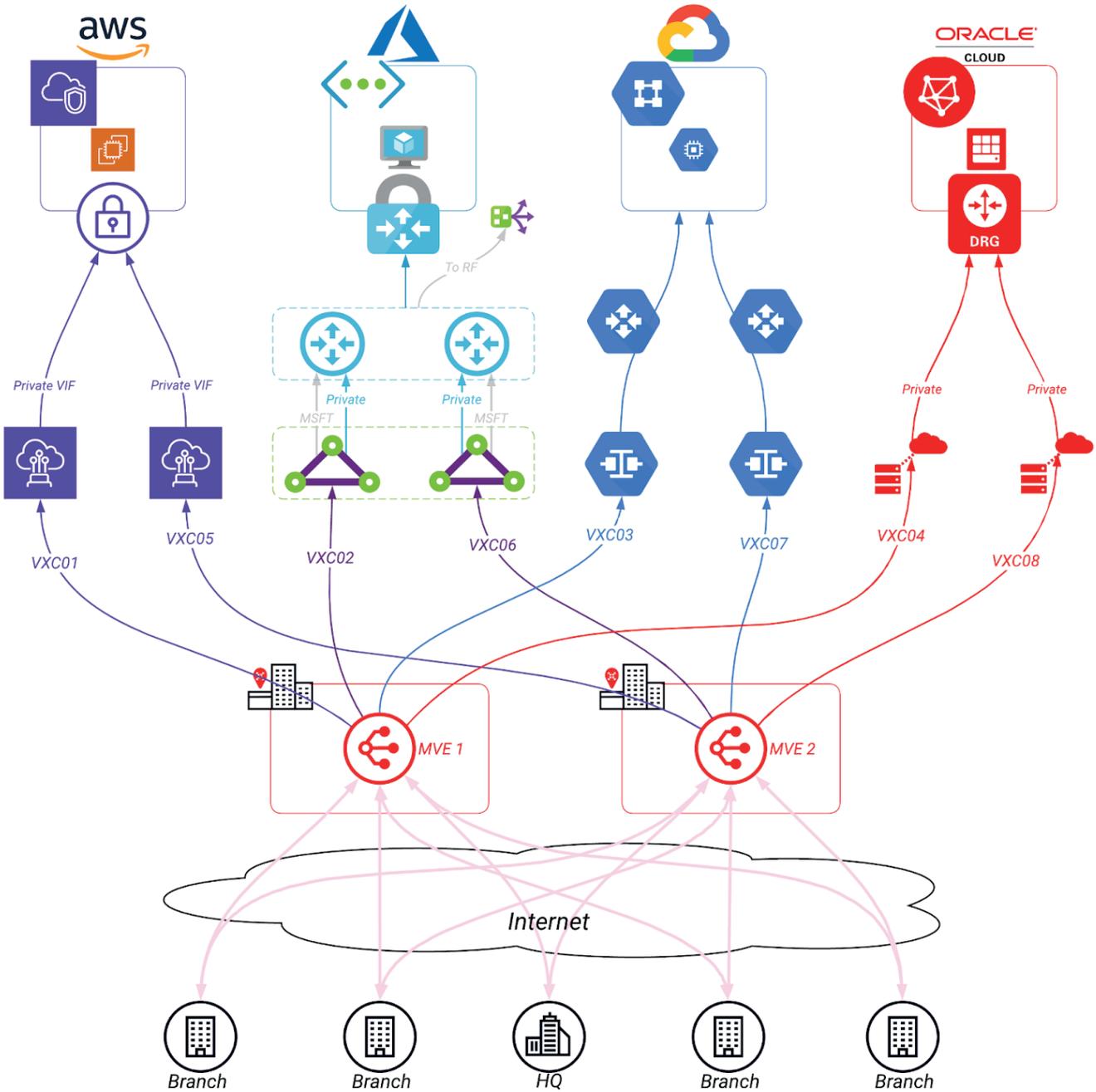




BRANCH-TO-MULTICLOUD NETWORK DESIGN

BLUEPRINT 10:

Branch-to-multicloud, not connected to data center, redundant

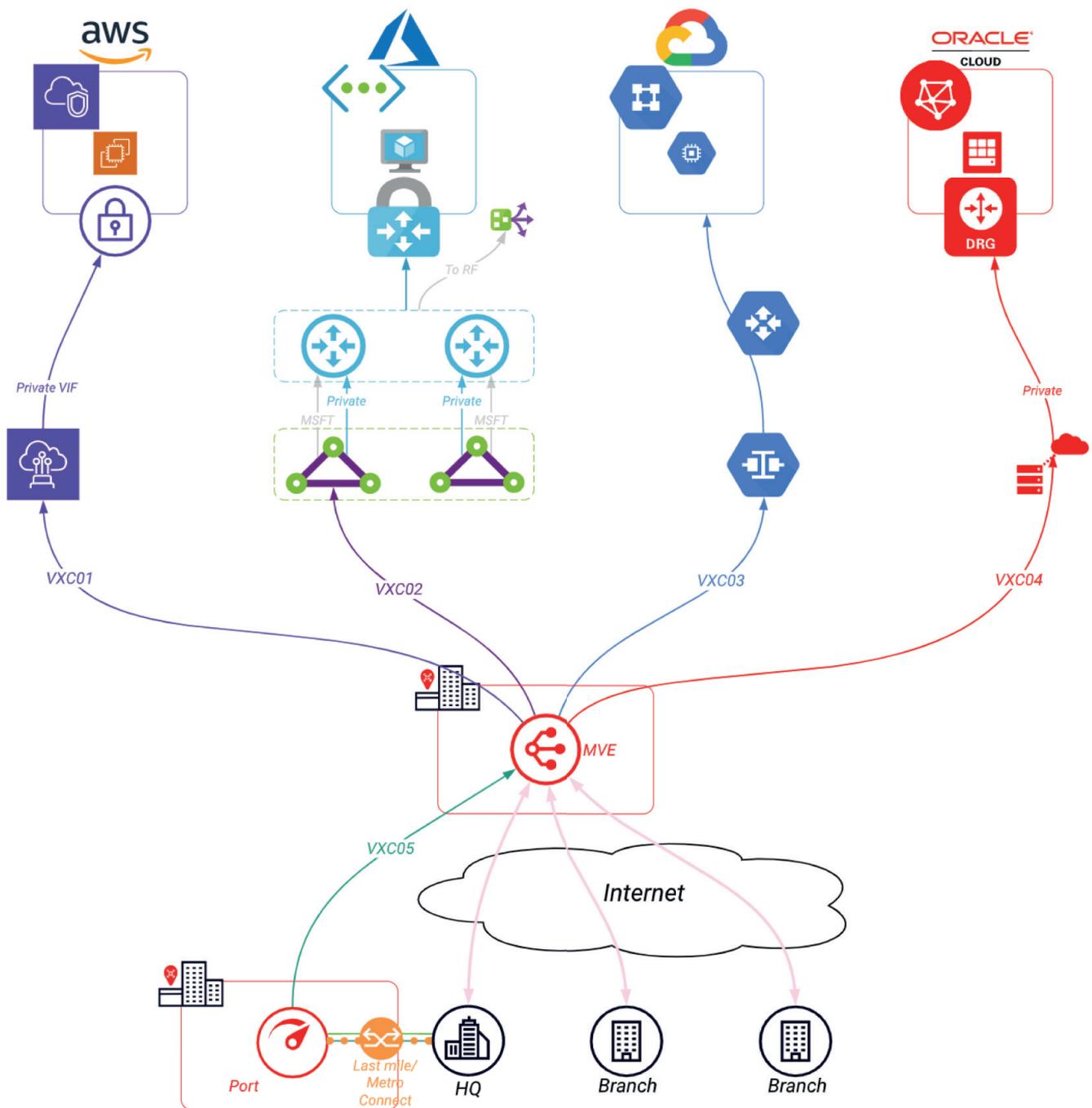




BRANCH-TO-MULTICLOUD NETWORK DESIGN

BLUEPRINT 11:

Branch-to-multicloud, connected to data center, non-redundant, dual underlay

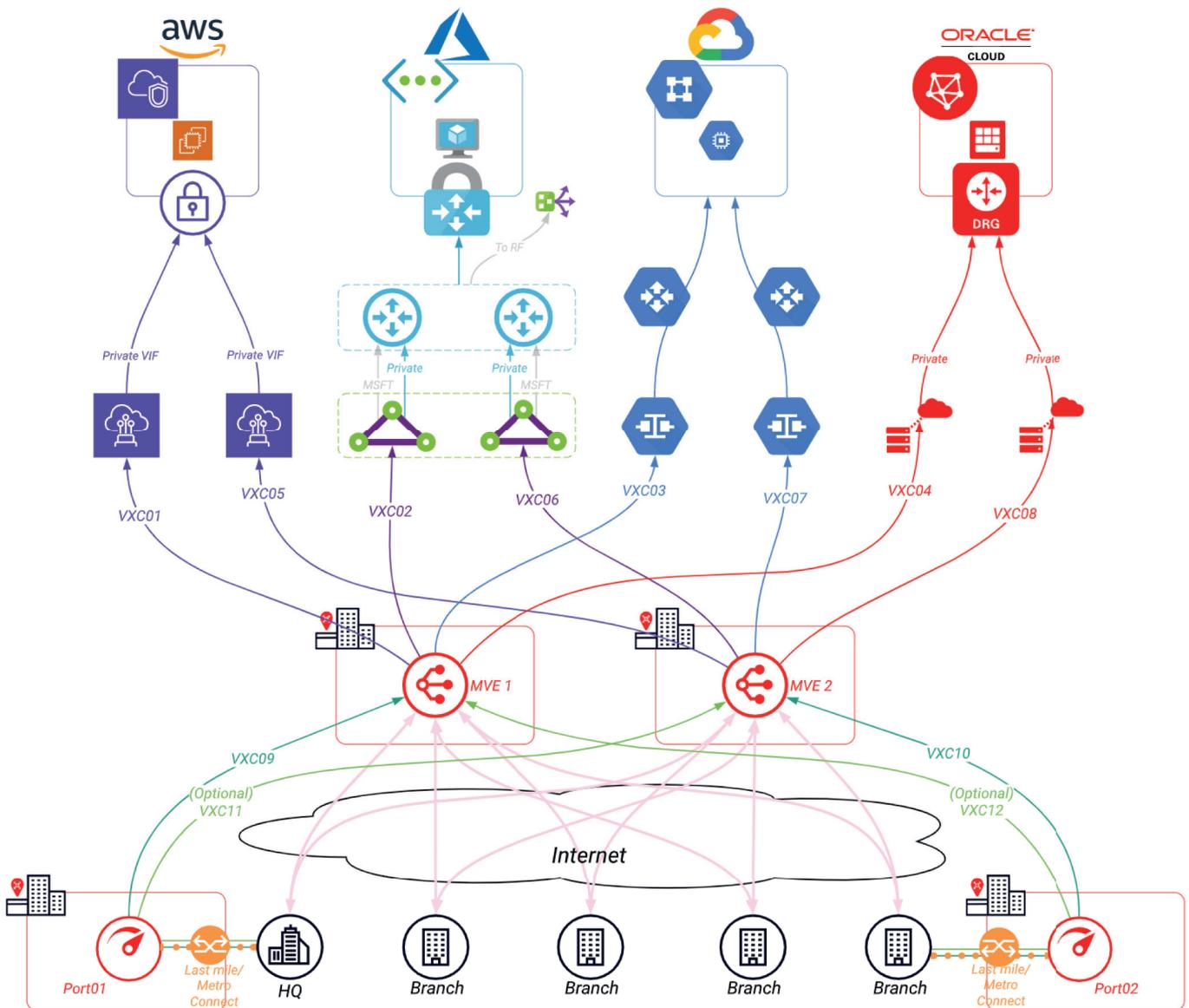




BRANCH-TO-MULTICLOUD NETWORK DESIGN

BLUEPRINT 12:

Branch-to-multicloud, connected to data center, redundant, dual underlay





LEGEND



Port (Megaport)



MVE (Megaport Virtual Edge)



MCR (Megaport Cloud Router)



Port (Megaport)
Diversity Zone (Red)



Cross Connect



Megaport Enabled
Location



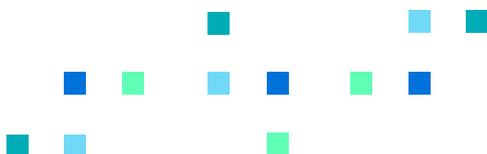
Port (Megaport)
Diversity Zone (Blue)



VXC (Virtual Cross
Connect)



MCR Enabled
Location

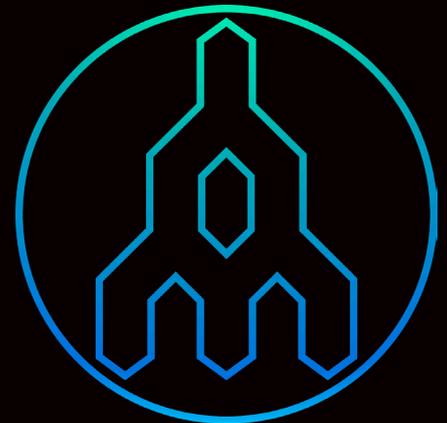


Connect to the cloud in under 60 seconds.

Megaport is a leading provider of Network as a Service (NaaS) solutions. Our global Software Defined Network (SDN) helps businesses rapidly connect their network to services via an easy-to-use portal or our open API.

Megaport makes network connectivity easy and agile, reducing operating costs and increasing speed to market compared to traditional networking solutions. We partner with the world's top cloud service providers, as well as the largest data center operators, systems integrators, and managed service providers.

For the world's most significant networking and connectivity challenges.



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INFOPAPER

