

# The Evolution of Cloud Connect 2.0

*Finally, Your Network is as Agile as Your Team*

The way organizations establish private connectivity to public clouds is evolving. The first phase, Cloud Connectivity 1.0, was slow, expensive, and labor-intensive. Cloud Connectivity 2.0 changes the rules: it lowers costs, mitigates complexity, improves performance and security, and introduces agility. This makes dedicated private network solutions feasible for organizations of all sizes.

This image illustrates the evolution of cloud connectivity and the market size of Cloud 2.0, a Pureport-enabled solution for private connectivity to public clouds.

## The Evolution from Cloud Connect 1.0 to a Pureport Enabled Cloud Connect 2.0



### Cloud Connect 1.0

The earliest adopters in the Cloud 1.0 era were large enterprises using big pipes to connect their data centers or corporate networks to workloads in the cloud, via private networks. The two most common connection strategies:

1. Establishing a co-location at a cloud onramp
2. Provisioning a circuit with a carrier to connect remotely to a cloud onramp

### Cloud Connect 1.0 was an awkward solution.

It was a layer 2 service, requiring significant hands-on routing and network expertise to connect to the layer 3 networking required in the cloud. Provisioning a circuit from a carrier took 30, 60, or 90 days (or longer), and mandated a long-term contract. Companies chose the cloud for agility, but Cloud Connect 1.0 was a slow, costly, decidedly non-agile process to connect to the agile cloud environment.

### Cloud Connect 2.0

2019 is beginning of what Pureport refers to as the Cloud Connect 2.0 era. This new era has removed the barriers Cloud Connectivity 1.0 created, empowering hundreds of thousands more organizations to privately connect to the cloud. Pureport's Multicloud Fabric™ is a key agent in the Cloud 2.0 evolution of private connectivity for public clouds. The platform starts at layer 3 with all Pureport gateways supporting BGP Peering, enabling the dynamic exchange of routes with edge routers, as well as between other gateways across the end user's private network. Pureport's Console guides the user to connect clouds and locations and choose a speed, in just a few clicks. Backstage, the platform automatically builds complex, optimized routing engines—in seconds.

### Cloud Connect 2.0 is an agile solution.

Now, organizations provision connections to the cloud instantly, no additional physical infrastructure and no long-term contracts required. Network connections created within the Pureport platform are billed hourly, just like the cloud providers, and all connections default to High Availability.

# Amazon Web Services Solution Comparison: Pureport's Multicloud Fabric™ vs. A Dedicated Circuit

Companies often take the path of a dedicated layer 2 circuit to connect to Amazon Web Services (AWS) via the private AWS Direct Connect services. However, this path includes long-term contract commitments and requires a high level of networking expertise.

The chart illustrates a cost and benefits comparison for a private dedicated connection to AWS via a traditional carrier circuit and Pureport's on-demand network.

## Summary

Pureport's Multicloud Fabric platform saves organizations up to 80% of the cost of using a carrier circuit. Unique features such as near-instant provisioning, a self-service console to deploy and manage networks, the ability to increase/decrease bandwidth at will, and direct VPN networking capability provide organizations with a flexible network. This network can be tailored to business requirements for both short-term projects and long-term permanent networks.

	Carrier	Pureport's Multicloud Fabric™
<b>Bandwidth and Cost</b>		
Bandwidth Selected*	500 MB	500 MB
Monthly Cost	\$2,500	\$1,095
Minimum Term	Multi-Year	None
3 Year Total Cost	\$90,000	\$39,420
Cost Difference		<b>\$50,580 (56%)</b>
<b>Benefits</b>		
Time to Deliver Connectivity	Weeks to Months	Minutes
Cancel as Needed	No	Yes
High Availability Network	Added Cost	Built-In
Scale/Add VPNs Direct to Cloud	No	Yes
Designed for Short Term POC	No	Yes
Uptime Service Level Agreement	<100%	100%
<b>Scaling</b>		
Monthly Cost to Add a New Site	\$2,500	\$547.50
Minimum Term	Co-Term	No Contract
Scale Bandwidth On-Demand	No	Yes

*\*This comparison is based on a 1GB connection. Pureport offers various connection options.*

## About Pureport

Pureport's Multicloud Fabric seamlessly orchestrates private connectivity to Amazon Web Services, Microsoft Azure, Google Cloud, Oracle Cloud, and IBM Cloud. Whether a multicloud, hybrid cloud, or multi-site network, Pureport's Multicloud Fabric enables organizations to securely deploy cloud connections within minutes, and without the need for additional physical infrastructure. Pureport's Multicloud Fabric includes a distributed multicloud router that enables connections between sites and cloud providers from the same network, and supports Layer 3, BGP Peering between them. Pureport's Console offers a visual tool for self-service management of cloud networks, and reduces the administrative overhead and technical expertise often required when deploying traditional networks. Pureport charges based on allocated bandwidth per hour, which allows organizations to pay for only what is needed.

# Microsoft Azure Solution Comparison: Pureport's Multicloud Fabric™ vs. A Dedicated Circuit

Companies often take the path of a dedicated layer 2 circuit to connect to Microsoft Azure via the private ExpressRoute services. However, this path includes long-term contract commitments and requires a high level of networking expertise.

The chart illustrates a cost and benefits comparison for a private dedicated connection to Microsoft Azure via a traditional carrier circuit and Pureport's on-demand network.

## Summary

Pureport's Multicloud Fabric platform saves organizations up to 80% of the cost of using a carrier circuit. Unique features such near-instant provisioning, a self-service console to deploy and manage networks, the ability to increase/decrease bandwidth at will, and direct VPN networking capability provide organizations with a flexible network. This network can be tailored to business requirements for both short-term projects and long-term permanent networks.

	Carrier	Pureport's Multicloud Fabric™
<b>Bandwidth and Cost</b>		
Bandwidth Selected*	1 GB	1 GB
Monthly Cost	\$4,000	\$1,460
Minimum Term	Multi-Year	No Contracts
3 Year Total Cost	\$144,000	\$52,560
Cost Difference		<b>\$91,440 (63.5%)</b>
<b>Benefits</b>		
Time to Deliver Connectivity	Weeks to Months	Minutes
Cancel as Needed	No	Yes
High Availability Network	Added Cost	Built-In
Scale/Add VPNs Direct to Cloud	No	Yes
Designed for Short Term POC	No	Yes
Uptime Service Level Agreement	<100%	100%
<b>Scaling</b>		
Monthly Cost to Add a New Site	\$4,000	\$730
Minimum Term	Multi-Year	No Contracts
Scale Bandwidth On-Demand	No	Yes

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# Google Cloud Solution Comparison: Pureport's Multicloud Fabric™ vs. A Dedicated Circuit

Companies often take the path of a dedicated layer 2 circuit to connect to Google Cloud via the private Google Interconnect services. However, this path includes long-term contract commitments and requires a high level of networking expertise.

The chart illustrates a cost and benefits comparison for a private dedicated connection to Google Cloud via a traditional carrier circuit and Pureport's on-demand network.

## Summary

Pureport's Multicloud Fabric platform saves organizations up to 80% of the cost of using a carrier circuit. Unique features such as near-instant provisioning, a self-service console to deploy and manage networks, the ability to increase/decrease bandwidth at will, and direct VPN networking capability provide organizations with a flexible network. This network can be tailored to business requirements for both short-term projects and long-term permanent networks.

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