

EQUINIX PERFORMANCE HUB™

Fast, consistent and reliable network and application performance

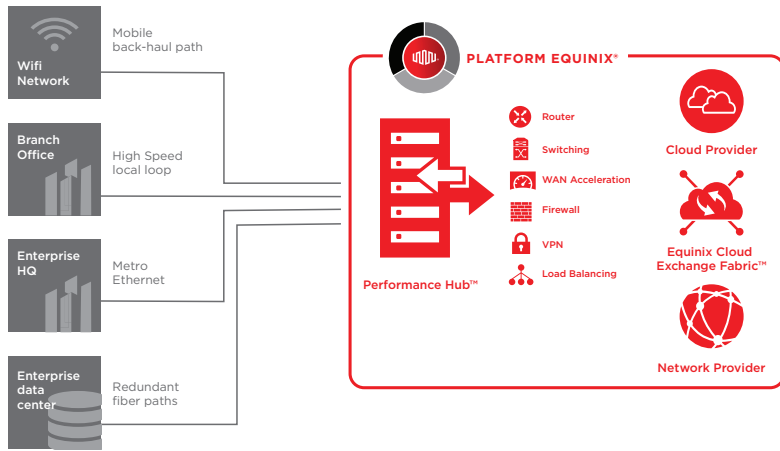
Digital transformation is driving the distribution of services and controls closer to customers, employees, partners and ecosystems. To stay competitive, enterprises are building their digital edge alongside the largest industry ecosystems on Platform Equinix®, our global platform for digital business, to reach everywhere, interconnect everyone and integrate everything. There they can leverage industry best practices of an Interconnection Oriented Architecture™ (IOA™) to take control of their digital strategy.

The network reimagined

Enterprises demand a lot from a network. It must be robust, secure, distributed and able to meet on-premises and cloud application performance needs. Equinix Performance Hub is an extension node of an enterprise's network into an Equinix International Business Exchange™ (IBX®) data center. It enables enterprises to securely and reliably connect to the network and cloud providers. The deployment in the IBX includes off-the-shelf networking and other infrastructure equipment.

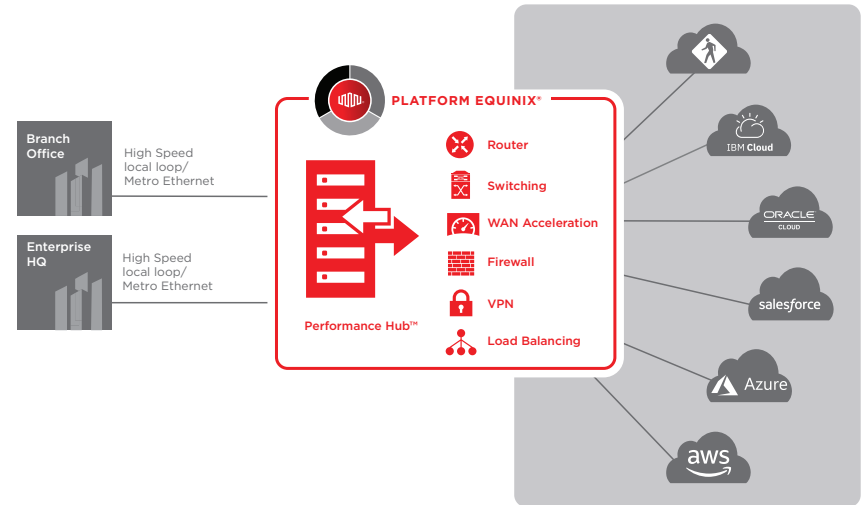
Benefits

- Move to Cloud: Enables easy private cloud deployment and secure, direct connectivity to public cloud; lays the foundation of a hybrid cloud
- Efficient Network: Simplifies the network and provides access to the cloud and the internet without hair-pinning traffic only via select locations
- Improve Quality of Experience (QoE): Optimizes network and application QoE by offering higher throughput and low latency, and deploying close to end users
- Provider Choices: Supplies connectivity to 1,700+ networks, 2,900+ cloud and IT service providers



- Higher Manageability: Provides the agility, security and visibility needed to take control of the network

Performance Hub Components



How to design and deploy Equinix Performance Hub

Current IT trends are moving toward cloud computing, but limited skills and experience leave enterprises unsure how to get to the cloud with an efficient, distributed and scalable network infrastructure. Equinix can make this process easier and more efficient with its consulting services and validation design program.

Enterprises can connect their headquarters and branch offices to the nearest Equinix IBX data centers via high-speed local loop or Ethernet connectivity. Within the IBX, enterprises can deploy network equipment and connect to network and cloud providers.

Performance Hubs (PH) are usually deployed in local proximity to specific end-user communities. Equinix IBX data centers are prime locations for Performance Hub deployments because they host an expansive mix of network and cloud services. This allows enterprises to easily build future hybrid cloud deployments.

Enterprises can connect their locations to a Performance Hub in the following ways:

Scenario 1 (S1)	Scenario 2 (S2)	Scenario 3 (S3)	Scenario 4 (S4)	Scenario 5 (S5)	Scenario 6 (S6)	Scenario 7 (S7)
Tether an existing enterprise data center to the closest IBX	Connect HQ and branch office locations to the closest IBX	Connect inter-regional branch offices via IBX Interconnect	Connect branch offices with a combination of internet/ Metro-E and PH as cloud gateways	Direct connect to public cloud providers through PH	Connect on-premises resources and public cloud through PH	Connect to Equinix Cloud Exchange Fabric to connect to multiple public cloud providers

Solution Components

The following table summarizes the components of the PH architecture. The hardware and software solution components are recommendations based on EVD benchmark results. Customers are at liberty to choose other products according to their preferences.

Components	Description	Enterprise WAN				Cloud Connectors		
		Scenarios						
		S1	S2	S3	S4	S5	S6	S7
Equinix IBX	Flexspace, Power, Cabinets & Cooling, Cross Connect	●	●	●	●	●	●	●
Network Connectivity	Long-Haul Connectivity (MPLS-VPN)	●		●	●		●	●
	Ethernet (Private Line or VPLS)	●	●	●	●	●	●	●
	Local Loop Connectivity (MPLS-VPN or VPLS or Metro-E)	●	●	●	●	●	●	●
	Internet Connectivity		●	●	●	●	●	●
Network Equipment	Routing—Juniper MX-5		●	●	●		●	●
	Switching—Alcatel-Lucent 7210	●	●	●	●	●	●	●
	Firewall—Palo Alto 5020		●	●	●		●	●
	SSL-VPN—Palo Alto 5020		●	●	●		●	●
	Load Balancer—A10 Thunder 1030		●*	●*	●		●	●
	WAN Acceleration—Silver-Peak VX2000/8000		●	●	●		●	●
Network Performance Management	Thousandeyes.com—SaaS application (latency measurements between locations)	●	●	●		●	●	●
	Logicmonitor.com—SaaS application (Monitoring, Collecting, Alerting, Trending, Reporting)		●*	●*			●	●
Application Performance Management	Appneta—APM (Trace, Path, App, FlowView)		●*	●*		●	●	●
Compute & Storage (Equinix IBX Rack)	Dell PowerEdge R720		●*	●*	●		●	●
	VMware ESXi.5.x Hypervisor		●*	●*	●		●	●
	Netapp FAS series—Storage		●*	●*	●		●	●
Compute & Storage (Public Cloud)	Amazon Web Services (EC2)—Public Compute					●	●	●**
	Amazon Web Service (S3)—Public Storage					●	●	●**
	Microsoft Azure					●**	●**	●**

*Optional: Needed for Application Hosted in Equinix IBX Rack

** Customers can choose from or connect to both AWS and Microsoft Azure

Equinix Validated Design (EVD)

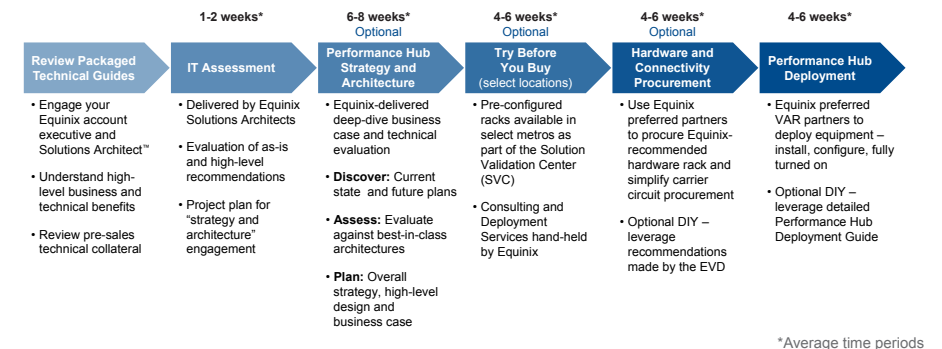
Equinix Validated Design is a solutions validation program which tests and certifies reference architecture design and solution components (network infrastructure, on-premises and cloud applications) for full-scale deployment.

EVD for Performance Hub provides a detailed design guide for building Equinix Performance Hubs. It offers guidelines for integrating networking, compute, storage and network services; achieving WAN optimization; securely connecting to the industry's leading public cloud providers; and deploying the PH in industry-leading Equinix IBX colocation facilities.

Equinix Professional Services (EPS)

Equinix Professional Services offers guidance every step of the way by performing detailed business and technical analysis; presenting recommendations to optimize network and application performance; and providing consulting expertise in cloud deployments.

Customer Engagement Flow



All work will be performed and delivered by Equinix Professional Services (EPS) professionals and/or EPS-approved consulting partners.

For More Information

<http://www.equinix.com/services/performance-hub/>
or contact us <http://www.equinix.com/contact-us/sales/>