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Solutions Brief  
Equinix and IBM Partnership

EQUINIX AND IBM

# Easily develop and deploy containerized applications on Equinix Metal™ at the edge

Infuse your enterprise systems with AI-driven automation using hybrid multicloud services.

IBM and Equinix share the goal of helping customers and partners accelerate business growth by integrating multiple cloud services into a consolidated hybrid cloud solution, and automating time-consuming work to make creative collaborations easier across teams and platforms. IBM Cloud Satellite™, an open hybrid cloud as a service, is built for teams to deploy applications across multiple IT environments—on-premises, on chosen cloud platforms and at edge locations. Based on open software distributions, IBM Cloud Satellite provides a secured and portable platform for which IBM maintains all software patching and versioning. IBM Cloud Satellite customers monitor and manage their deployed cloud services and applications via a single console view.

This neutral, portable platform is now available on Equinix Metal at the interconnected metro edge which privately and securely connects to chosen cloud platforms, locations and IT consumers of the enterprise.

## Equinix and IBM for programmable distributed deployment at the edge and unified private interconnection across platforms for Kubernetes management

Take an accelerated and secure path to building and running hybrid cloud applications in a unified framework across multiple infrastructures.

Automating the management and deployment of applications on Kubernetes clusters at scale with Red Hat® OpenShift® on IBM Cloud® (ROKS) greatly reduces complexity and risk. Gain greater flexibility and unmatched versatility with Kubernetes workloads by using IBM Cloud Satellite to distribute the ROKS service anywhere you need it. Quickly deploy secure applications within hours with proven configurations. Through the main console, you manage ROKS and other services in IBM Cloud Satellite locations; which are a set of infrastructure hosts you choose and to which you distribute services.

[Equinix.com](https://www.equinix.com)



### Run anywhere

Run distributed workloads on IBM Cloud, other public clouds, on-premises or at the edge.

### Run on anything

Run consistent cloud services on all types of IT infrastructure.

### Run automatically

Leverage AI tools and services to automate IT tasks and processes, and to produce insights from data where it is generated and resides.



PLATFORM EQUINIX

### All the right places

Place infrastructure wherever you need it.

### All the right partners

Connect to everything you need to succeed via a large ecosystem of services.

### All the right possibilities

Go to market fast with agility, confidence and frequent improvements.



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Businesses deploying and running Kubernetes workloads can use the combination of Equinix Fabric™, Equinix Metal and Network Edge to directly connect at global scale to their choice of thousands of cloud, networking, storage, compute and application service providers in the industry's largest infrastructure ecosystem.

## Equinix and IBM Partnership: A foundation for emerging technologies

### IBM Cloud Satellite

IBM Cloud Satellite is a managed distributed cloud solution that delivers cloud services—including Red Hat OpenShift as a service, APIs, identity and access policies, security and compliance controls—where you need them. Build, run and manage apps in Kubernetes clusters on a portable platform, IBM Cloud Satellite, which works with unique infrastructure as needed. Deploy and run apps consistently across on-premises, edge computing and public cloud environments from any cloud vendor.

### Red Hat OpenShift on IBM Cloud (ROKS)

Red Hat OpenShift on IBM Cloud is a cloud-native platform deployable on any IBM Cloud Satellite location. It is the core service for creating a true hybrid cloud with IBM Cloud Satellite. And it is designed for teams to build and deliver better applications faster. ROKS on IBM Cloud Satellite offers a versatile and portable platform foundation for building and scaling containerized applications. IBM manages ROKS as part of the service, streamlining installation of patches and version upgrades.

### Equinix Metal

Equinix Metal is physical infrastructure at software speed. Take advantage of a programmable experience for infrastructure: 60 second deploys, first-class DevOps integrations and a customer success team that engages over Slack. It is secure, powerful, cost-effective hardware at your fingertips, and Equinix Metal is certified to run Red Hat OpenShift container management delivered via IBM Cloud Satellite.

### Equinix Network Edge

Equinix Network Edge provides virtual network services that run on a modular infrastructure platform, optimized for instant deployment and interconnection of network services. Connect and accelerate performance of your Red Hat OpenShift applications and Kubernetes clusters via APIs for automated provisioning of Equinix Metal to a Network Edge device with direct links to IBM Cloud and other cloud platforms, or to the interconnected metro edge in minutes—with no additional hardware requirements.

### Equinix Fabric

Equinix Fabric is the world's first real-time interconnection technology built especially for digital infrastructure. Connect digital infrastructure and services on demand at software speed via secure, software-defined interconnection. Scale hybrid deployments, achieve network agility and directly connect to partners and providers easily and securely.

## Leverage the robust IBM Cloud Satellite and its capabilities worldwide with Platform Equinix™

Deploying IBM Cloud Satellite on Equinix Metal provides a high-speed, low latency, secure and consistent connection, enabling better performance of applications, Red Hat OpenShift and Kubernetes clusters that utilize hybrid multicloud architectures. Equinix Metal provides the interconnected metro edge infrastructure located within 10 milliseconds of most users, and Equinix Fabric provides the connective tissue to privately interconnect those Equinix Metal instances between one another, as well as to any hyperscale cloud platform.

Equinix and IBM are the perfect fit not only to run Red Hat OpenShift on Equinix Metal, but also to interconnect all of those deployments globally. IBM Cloud Satellite spins up an image of Red Hat OpenShift on virtually any infrastructure, and runs in accordance with security and software delivery best practices.

- **Move faster:** Improve the speed of provisioning and deployment of Red Hat OpenShift delivered by IBM Cloud Satellite on Equinix Metal via the IBM Cloud Portal.
- **Reduce latency:** Available at 60+ major metros worldwide, just 10 milliseconds from customer endpoints, allowing for real time-performance workloads.



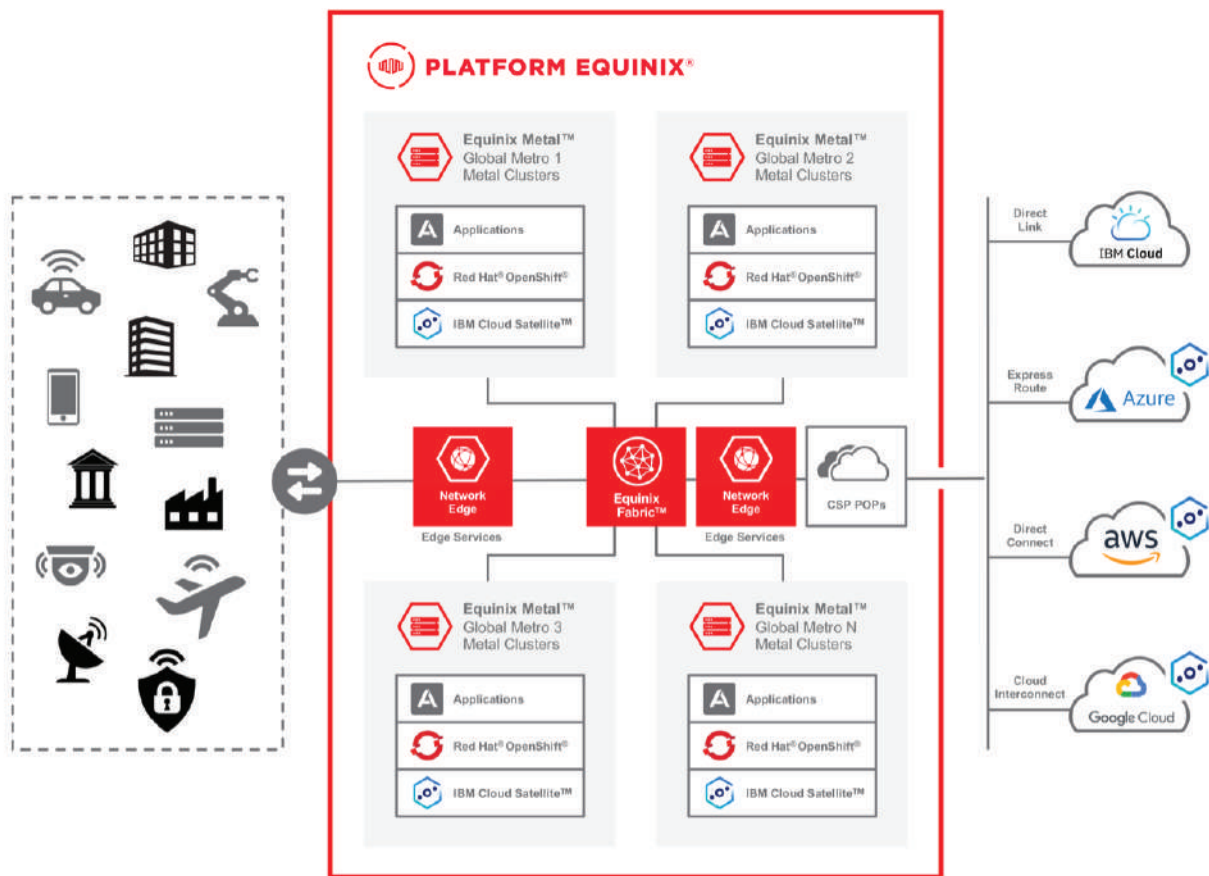
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- **Access clouds automatically.** Provision virtual circuits to IBM Cloud and to other cloud providers via Equinix Fabric.
- **Provision easily.** Automatically provision Equinix Metal infrastructure at our edge locations as part of a hybrid cloud architecture to enable multicloud deployments and reduce application latency through APIs.
- **Deploy widely.** Get ubiquitous deployment of IBM managed Red Hat OpenShift globally at the interconnected metro edge.

## Privately interconnect multicloud platforms using Equinix Fabric

Operate hybrid, multicloud and interconnected metro edge workloads as a singular LAN environment.

Equinix and IBM enable the seamless delivery of a managed, global platform for running cloud-native applications on Red Hat OpenShift across Platform Equinix.



### Far Edge <1 ms

- Data residency
- Low-latency response time
- Local data persistence and control
- Highly secure
- Independent compute functions
- Resource light

### Macro Edge <10 ms

- Ecosystem access and multicloud integration at scale
- Real-time data aggregation and distributed data
- Aggregated application and commercial flows
- Highly secure multipoint interconnectivity
- Resilient multi-tiered data access
- Single-tenancy model

### Cloud >50 ms

- Computing at large scale
- Latency a non-factor
- More risk tolerant
- Requires heavy compute function
- Multicloud not required
- Shared-tenancy model



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### Benefits:

- Ecosystem access & multicloud integration at scale
- Real-time data aggregation and distributed data
- Aggregated application and commercial flows
- Highly secure
- Multipoint interconnectivity
- Resilient multitiered data access

### Desired Outcomes:

- Real-time streaming analytics
- Distributed container management and orchestration
- Process automation
- Metro-targeted storage integration and governance
- Visual analytics
- Regulatory compliance

## IBM solutions on Platform Equinix

The digital heart of the enterprise worldwide

The Equinix global platform and hybrid multicloud approach aligns with IBM's approach, making Equinix the foundational partner when delivering IBM solutions and multicloud applications in an integrated hybrid environment.

### About Equinix

Equinix is the world's digital infrastructure company. Digital leaders harness our trusted platform to bring together and interconnect the foundational infrastructure that powers their success.

[Equinix.com](https://Equinix.com)

### About IBM

For more information on IBM Cloud Satellite, visit

[ibm.com/cloud/satellite](https://ibm.com/cloud/satellite)

## For more information

Please contact, [ibm@equinix.com](mailto:ibm@equinix.com)



## Power Your Digital Leadership at Equinix

On Platform Equinix®, digital leaders bring together all the right places, partners and possibilities to create the foundational infrastructure they need to succeed. On a single global platform, place infrastructure wherever you need it. Connect to everything you need to succeed. Seize opportunity with agility, speed and confidence.

[Equinix.com](https://Equinix.com)

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