

# Cloud Accelerator

Fast, agile, secure delivery of cloud workloads to anyone, anywhere

Applications sit at the center of today's digital culture. To help reduce costs and gain greater levels of agility and efficiency when delivering new apps or updates to existing services, many businesses are embarking on cloud-first strategies.

The state of cloud adoption underscores the criticality of such strategies. As of 2018, 96% of enterprises are using some form of cloud services, while 99% of executives consider the cloud to be vital to their ongoing digital strategies.

## Business Challenges

With digital transformation comes never-before-seen complexity of apps, networks, end points and places where business is being executed. Data centers and branch offices are no longer the center of the IT universe. Today's digital landscape has expanded to multi-cloud, hybrid networks and BYOD, as well as an almost endless array of new cloud-based business applications and workloads. With the complexity, there are increasing concerns about IT agility, application performance, and containing cloud costs.

Businesses cannot afford to have excessive downtime when migrating workloads from on-premises to the chosen cloud vendor and are always looking to shorten these timelines.

## Solution

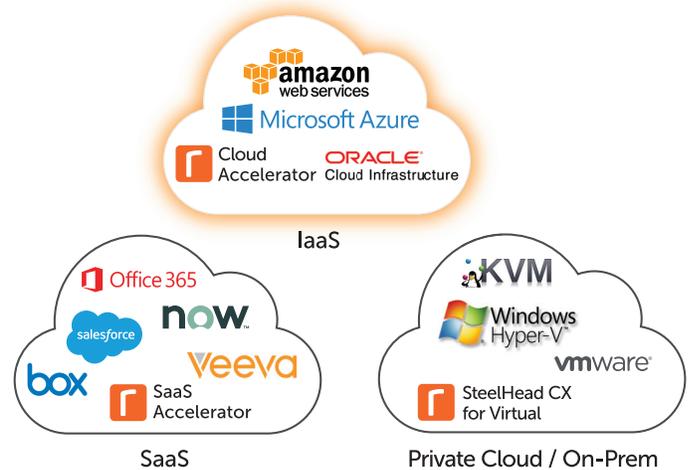
Riverbed's Cloud Accelerator solution extends subscription-based application acceleration to IaaS clouds. With support for Azure, AWS, OCI, and more, the solution is particularly well suited for cloud migrations by drastically enhancing access and reliability for any workload from any location, including:

**Internal Apps:** Data center apps, Collaborative, Email, SharePoint

**Line-of-Business Mission-critical Apps:** Cross-Site Replication, Disaster Recovery

**Media:** Video Streaming

**Tiered Storage:** Hot data on premise, Cold data move to public cloud, Web Applications E-Business, Internet-facing web



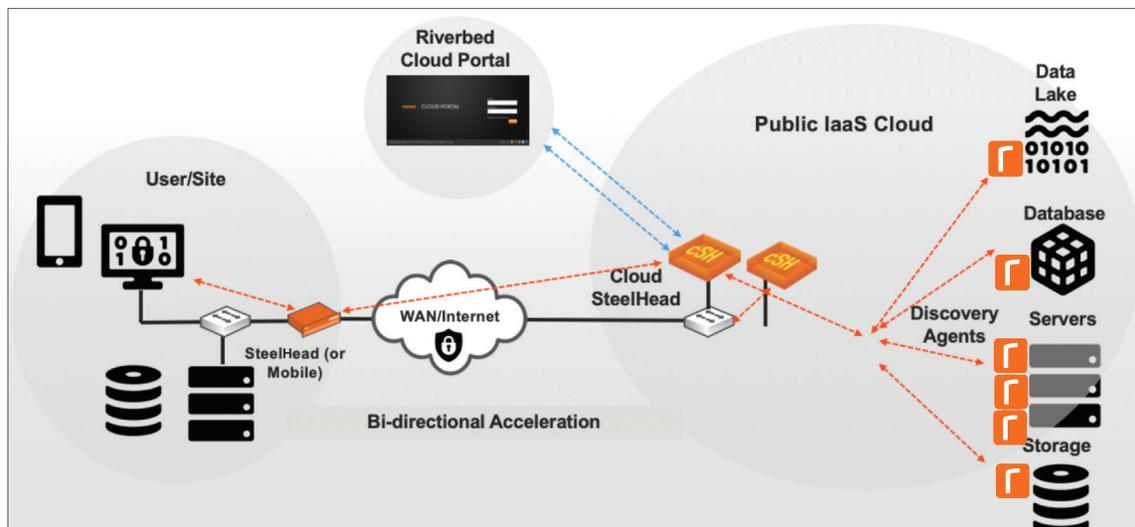
## Use Case: Move to the Cloud with Greater Agility and Confidence

In order for enterprises to maximize the flexibility and cost savings of the public cloud, they must overcome latency and bandwidth constraints imposed by distance and unreliable last mile networks. With the Riverbed Cloud Accelerator solution, IT and Apps teams have the agility to keep up with business demands for new cloud services while overcoming these inherent performance limitations. In a cloud migration scenario, A virtual form factor of SteelHead CX gets deployed from the provider's marketplace. Once peered with an on-prem SteelHead (datacenter or branch), data and app migrations are dramatically faster.

Once the migration is completed, IaaS-hosted apps accessed over the public Internet, MPLS circuit costs are reduced, the effects of high latency diminished, and ultimately a better experience for the end user is achieved. Customers can expect file downloads to improve by as much as 100x and the amount of data reduced by up to 97%. These capabilities can also be extended to mobile workers, ensuring users have fast, secure access to apps, no matter where they need access.

“Delivering business-critical apps over the Internet saves us millions without sacrificing performance.”

Edward Wagoner, JLL's Chief Information Officer, Americas, JLL



## The Power of SteelHead – In the Cloud

Riverbed's Cloud Accelerator removes performance barriers to enterprise-class public cloud deployments by combining market leading Riverbed WAN optimization technology along with a purpose-built cloud portal for manageability.

### Data streamlining

- Uses patented, scalable, data referencing technology to reduce the bandwidth used to transmit data by up to 99%
- Provides industry-leading scalability and patented deduplication

- Works with TCP-based protocols and applications, including file sharing (CIFS/SMB), Web applications (HTTP and HTTPS), database software (Oracle), and collaboration tools (CAD, SharePoint, email)
- Works with UDP-based file transfer applications, including Signiant, Aspera, and Symantec's Veritas Volume Replicator

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## Transport streamlining

- Reduces the number of TCP packets required to transfer data by 65-98%
- Enables the acceleration of SSL-encrypted traffic to eliminate the security versus performance trade-offs
- Improves end user experience and reduces traffic over direct Internet connections with a fully embedded, transparent HTTP(S) proxy
- Supports satellite optimization for TCP links (based on SCPS extensions) over satellite connections that tend to be high latency, dynamic bandwidth, or lossy due to signal-to-noise ratio

## Manageability

- Web-based portal hosted and maintained by Riverbed
- The Riverbed Cloud Portal allows organizations to connect to their cloud provider and deploy a SteelHead CX cloud instance in just a few clicks
- Simplifies deployment, management, licensing, and allows for instant upgrades

## Application streamlining

- Offers the broadest support for application-specific modules to provide performance improvements on top of the data and transport streamlining optimization performed on all TCP traffic
- Reduces application protocol chattiness up to 98%
- Minimizes application overhead to provide massive throughput increases to applications such as file sharing (CIFS, SMB2/3, and NFS), collaboration software (SharePoint), email (Exchange and IBM Lotus Notes), cloud-based SaaS offerings (Office 365 and Salesforce), Web applications (HTTP and HTTPS), database (Oracle), and storage and disaster recovery (NetApp SnapMirror and EMC SRDF/A)

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## Let Riverbed Help You Remain in Control of the Cloud

Moving applications and data to the cloud is fraught with risk, but Riverbed is here to help you navigate the uncertainties. With Riverbed, you can accelerate your cloud transformation while preempting the pitfalls of moving to the cloud, gaining the levels of performance, agility, and security needed to thrive in today's digital age.

### To learn more, refer to the following resources:

- [De-risk your move to the cloud](#)
- [Riverbed solutions for Amazon Web Services](#)
- [Riverbed solutions for Microsoft Azure](#)
- [Riverbed solutions for Oracle Cloud Infrastructure](#)

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### About Riverbed

Riverbed®, The Digital Performance Company™, is united in our purpose of *Advancing the Human Experience in the Digital World*. Behind every digital experience is a human one, and Riverbed enables organizations to measure digital experiences and maximize digital performance so they can deliver better and more powerful human experiences—for customers, employees, partners, patients, and citizens. Riverbed's Digital Performance Platform includes a combination of Digital Experience Management and Next-Generation Infrastructure solutions that ensure superior digital and user experiences, provides new levels of operational agility and accelerates business outcomes. Riverbed's 30,000+ customers include 100% of the *Forbes* Global 100. Learn more at [riverbed.com](http://riverbed.com).

The Riverbed logo consists of the word "riverbed" in a lowercase, sans-serif font. The letters "river" are in a dark blue color, and the letters "bed" are in a dark red color. The logo is positioned in the bottom right corner of the page.