WAN Acceleration with Bridgeworks

BACKUPS

Daily we put our recovery at risk. Rather than creating a Recovery strategy we have had to accept a Backup Strategy due to the limitations of the infrastructure. Our goal should be the shortest Recovery Point Objective (RPO) we can muster and that means we are only safe when we have the last byte of data.

REPLICATION

We should be looking to achieve cross-site simultaneous replication continuously. Whether we are 20 miles apart or 2000 miles. Should an issue occur we should be able to flip the switch and be up and running within the shortest timeframe possible, Recovery Time Objectives (RTO's).

DISASTER RECOVERY

Often seen as exorbitantly expensive, that is, until disaster strikes. The speed of movement of data has often held organizations prisoner. Many have opted for near site sustained availability due to cost, but this puts Data Centres within the Circle of Disruption.

What problems do we solve?

Physical connection

TCP/IP

AI Engine   AI Engine
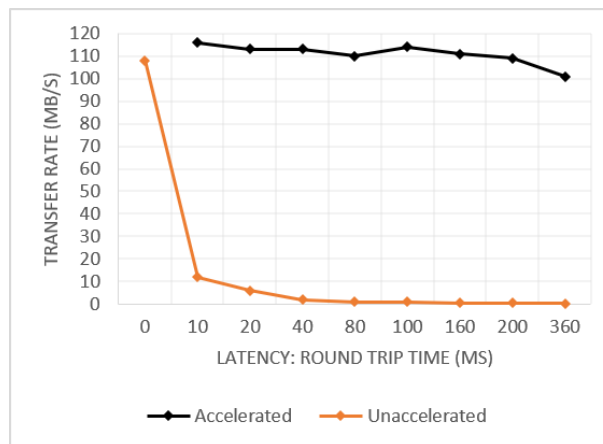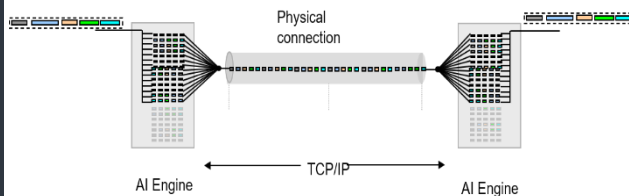
- Speeding up large data transfers over distance

- Accelerating data without examining, de-duplicating or compressing

- Accelerating ENCRYPTED Data

- Achieving backup and RTP targets

- Bridging SAN Technologies

- Filling the bandwidth & maximizing existing WAN investment

Aggregation: of data throughput, providing failover across multiple WAN links.

Data Agnostic: all data types are treated equally – encrypted, encoded, compressed or deduplicated.

Throttling: all-consuming within the scheduled bandwidth allocated.

Scalable: from 100mb – 40Gb WAN links, point to point and distributed deployments.

Not limited by file-system constraints: no file size limits, no limit to the number of files being sent.

Quick Start: virtual deployment 1 Hour.

Bi-Directional: allowing backups from source to target while recovering data from target to source.

Maximize WAN performance over any distance

Instant Acceleration: accelerating data having never seen it before.

Transparent: to the application, workflow and users. No agents or application integration, making native application tools work over the WAN.
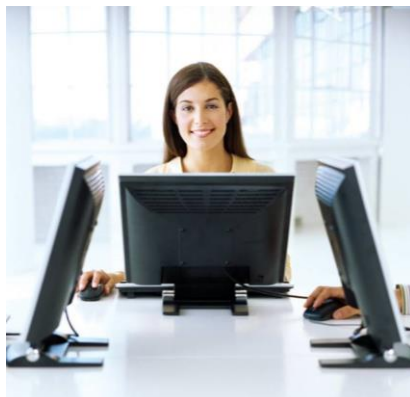
One TCP port to manage: TCP port 16665.

Cost Optimization: allowing rightsizing of the WAN to business needs and achieving up to 98% utilization.

Why are we different?

TRANSACTIONAL DATA

Whether this is volumes of data for central analysis for Big Data purposes, collection of IOT information from wind farms, seismic data from all points around the world, Research data for Life Sciences, Video be it Pre or Post Production it all has to be where it is wanted when it needs to be there.

ENCRYPTED DATA

Instead of the ususal and cumbersome process of compressing and extracting encrypted data for transmission, Bridgeworks avoids handling this data entirely, instead allowing the data to move accelerated and untouched.

PORTrockIT:

Supports TCP while mitigating latency issues and packet loss to boost data transference while leaving data uncompromised

WANrockIT:

Supports FC, SAS, iSCSI while accelerating SAN protocols and maximizing data transference

The Bridgeworks Solution:

While we don't dedupe or compress data, chances are your data management provider does, so we take their innovation to another level of speed. Nothing is cached, so our footprint for compute/memory/storage is less than the smartphone in your pocket. We are unhindered by encrypted or encoded data as it can all be accelerated.

Using Artificial Intelligence, our smart and self-aware software constantly monitors the WAN and makes adjustments for optimum performance, negating the need for human intervention and ensuring you are getting the most out of your expensive bandwidth. We use this AI to control multiple connections, control payload size, and balnce both the ingress and egress of your data stream.

Product	Performance	Connectivity	Application Protocols	Physical/ Virtual appliances	Physical Appliance Interface cards
TCP					
PORTrockIT 100	100MBs	Point to Point	1	Both (1U)	None
PORTrockIT 200	220MBs	Up to 4 Sites	2	Both (1U)	1
PORTrockIT 400	1000MBs	Up to 10 Sites	6	Both (2U)	4
PORTrockIT 800	4000MBs	Up to 50 Sites	12	Physical (2U)	7
iSCSI/FC/SAS					
WANrockIT 100	100MBs	Point to Point	iSCSI/FC/SAS	Physical (1U)	1
WANrockIT 200	220MBs	Up to 4 Sites	iSCSI/FC/SAS	Physical (1U)	1
WANrockIT 400	1000MBs	Up to 10 Sites	iSCSI/FC/SAS	Physical (2U)	4
WANrockIT 800	4000MBs	Up to 50 Sites	iSCSI/FC/SAS	Physical (2U)	7

Raytheon Technologies

IBM

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