How to Use WAN Optimization to Boost User Experience

Modernization of the wide-area network is the top priority for many federal IT leaders. However, ensuring the staff has consistently reliable, fast data access and applications from anywhere has become more challenging than ever.

The expectations of users are heightened. Operations are more distributed along with the consolidating of the data. There can be more distance than ever between users and their data and applications.

Have you ever thought about **WAN optimization technology** as a way to meet the challenge?

This blog will discuss the top points you can use for WAN optimization.

Overcoming protocol and distance design

WAN optimization overcomes the realities of geographical distance. In a specific way, the network data is transferred to the protocol design allowing the users to improve the application experience and making the most of the bandwidth you already purchased.

For example, it may take considerable time when a staff member wants to send a large file to the cloud or the data center. Waiting for one big data set to transfer is not usually a big deal. Still, suppose the user is a radiologist working with medical images or a field agent working with geospatial images daily; in that case, a long wait may add to a frustrating experience.

Reducing repetitive data transmission

The second capability of WAN optimization solutions is the reduction in data. **WAN optimization** uses two techniques: data compression and data deduplication. Deduplication helps identify repetitive data and fingerprints it. Just a copy is transmitted around the WAN, and there's a recreation of subsequent instanced from the fingerprint.
Data compression algorithms shrink file sizes to minimize the data transmitted across a wide area.

Taking the help of SD-WAN platforms

When it comes to data replication, backup, or even the movement of big data sets, satellite maps, and medical images, WAN optimization may make a more significant difference in overcoming the effects of latency while improving the user experience.

If you want help with the **SD-WAN**, **Cloud My Lab** is always ready to help you in any situation.