

BEST PRACTICES FOR BACKING UP OVER VPN TUNNELS

****NOTE: THIS CONFIGURATION IS DISCOURAGED DUE TO THE INSTABILITY OF BACKUPS OVER VPN CONNECTIONS****

SCOPE

This article discusses considerations for backing up servers over VPN tunnels .

BACKUPS OVER VPN

While QBR-S devices support backups over VPN, it is not the recommended configuration and may prove itself unreliable. There are many considerations to be had before deploying this kind of solutions for customers. There are many free VPN clients available for use.

While normal file transfers, desktop sharing, and work operations may be easily executed over a VPN, an image-based backup over a VPN connection brings many more items into consideration:

- Triggering the backup image
- Reading the disk to be backed up
- Returning data to the QBR-S device.
- Writing data across the tunnel to the device.

Reliable image based backups over VPN require a significantly large and stable connection between the site and the QBR-S device.

****The base recommendation is a constant, uninterrupted 50Mbps VPN connection between the server site and the QBR-S device.****

If multiple agents are backing up over a single VPN, they should be staggered to prevent connectivity loss.

CONFIGURING FIREWALLS / CONNECTIONS

Please ensure white lists exist to allow the server and device to make external connections detailed here: [QBR-S IP Ranges](#)

When setting up the connection between the QBR-S appliance and the site where the VPN connection will reside:

QBR *Knowledge base*

- Firewalls and routers should be configured to have a separate security zone that will allow traffic to and from the site without restriction or deep packet inspection.
- Any possible WAN accelerators should be enabled to improve the transfer speeds.
- A single tunnel should be dedicated as much as possible to the connection. No other traffic should be present.
- Test the reliability of the VPN connection with regular speed tests to ensure that the connection has remained stable.
- Run backups when activity on the protected machines is at a minimum.