QBR *Knowledge base*

OFF-SITE RECOVERY OPTIONS

SCOPE

This article covers the different methods of restoration available to clients for the restoration of their machines should they utilize the cloud VMs from their QBR-S devices.

CAUSE

1. When clients require failover to the off-site VMs for production use, the data change that occurs on these servers needs to be restored when the production environment comes back online.
2. To determine the best methods for restoration, it is key to determine what kind of data experienced change and what parts of the environment need to be restored to client machines. Depending on the roles of the servers, this will differ for methods of restoration.

SOLUTION

1. If the production changes need to be restored in their entirety, this can be done by several different methods

- QBR Tech Support can take ShadowProtect backups of the machine in its current state and then seed those backups to a roundtrip drive. The drive can then be sent out and connected to the QBR device. A VPN connection can then be established between the cloud VM and the local QBR device to perform an incremental over the wire. Given the speed of the connection, an incremental can take a considerable amount of time, so be cautioned of this.
- QBR can also create a VMDK or VHD of the selected machine in the cloud by taking a zfs snapshot of the latest changes to the cloud VM and export them to an external drive to be sent out for virtual restoration. Incrementals over the wire may not be possible with this option.

2. Doing a zfs differential change over the wire is also possible. QBR tech support will take a zfs differential of the current state of the cloud VM, compress that snapshot, and send it down to the local QBR device. Once that is complete, the dataset will then be merged and the most recent data will be delivered to the incremental chain. At that point, the server can be virtualized locally and local restoration can occur from there.

3. If a server needs only certain files or databases restored, different options may be available.

- Exchange: Kroll can be used to restore mailboxes from exchange servers
- SQL/Databases: Database changes may be able to be captured and transmitted where necessary via SQL backups or database backups. Consult your database administrators for different options for either merging or replacing databases.

- File servers: If only certain files were manipulated, these files may be able to be delivered via FTP or SFTP.

Be aware of the changes you've made in the cloud VMs as this will help in determining what the best method would be for restoration.