

## **WORKING WITH QBR'S PRIVATE NODE SOLUTIONS.**

### **SCOPE**

This article discusses the setup and maintenance of QBR Private Node solutions.

### **WHAT IS A NODE?**

A node is a private cloud solution from QBR that allows partners to manage their off-site data themselves, whether that is by a replication device locally on the network or housed at a datacenter somewhere off-site. The QBR node solutions function in the same fashion as QBR's private cloud. Node devices also act as the replacement to legacy Point-To-Point solutions that may be in operation. Off-site data is accessible in the same means as a QBR private cloud.

### **PURCHASING A NODE**

When a node is purchased and delivered, the determination needs to be made what current QBR devices in the field will be pointing to the node. This can be one or many clients depending on the size of the node and how much data storage is required.

When preparing to deploy a node, considerations for setup need to be the following:

- Dedicated circuit to the primary NIC interface on the node.
- A public IP address that the node can be placed directly on.
  - If this is not possible, port forwarding can be implemented to ensure that port 22 and 1194 (ssh and openvpn) are open inbound and outbound to the node.
  - The traffic must appear as if it is coming and going to a public IP addresses. The QBR devices syncing to these nodes are unable to complete this without the proper setup in place.
  - Consult with your firewall administrators to set this up and ensure that the traffic going in and outbound appears from a public IP address.

When a node is first delivered, a monitor and keyboard should be attached to the device. At this time, the node devices are terminal only setups, so first time setup will need to be done directly on the device.

Once opened up, you will see a prompt of user at a particular server number. This is your designated server number.

Contact QBR Technical Support who will then provide you the password for the device. Please specify your means of receiving the password (Ticket update, E-mail, text message, etc.) Once you logon to the device, there are several commands and places to check to setup your IP addresses correctly for connectivity and DNS resolution:

*nano /etc/network/interfaces*

# **QBR** *Knowledge base*

*nano /etc/resolv.conf*

After these steps have been performed, restart the networking interfaces on the device

*/etc/init.d/networking restart*

Then allow the device to check in with QBR's monitoring servers

*checkin*

After this has been completed, please provide QBR Technical Support with the public IP address that you are using for the node device. The QBR database will then be updated with the correct IP address.

Once that has been completed, QBR Technical Support will verify access from their end, and once the information has been input, cloud operations will verify the server is ready to accept new devices.

If you are only using the node for a single client, please notify Technical Support while performing the setup. This will ensure that only the correct device is synced to the node.

Once setup is complete, round trip drives should be run on all devices that are going to be synced to the node.

Run a roundtrip from the web console. Once that has been completed, hook the drives up to the node and have Technical Support verify the drives can be seen and mounted.

The data will then be copied over to the node and upon finalization, your points will be properly updated on the partners page as well as the web interface.