Barracuda Backup Network Interface Bonding

https://campus.barracuda.com/doc/41105986/

Models 690 and higher come with two network interfaces. One is active and the other is inactive, denoted by a plastic RJ45 connector in the port. The inactive port can be enabled in two ways. One, via NIC bonding which allows users to bond multiple network interfaces into a single channel; note that you must have two separate network connections and this is not to be used for one data pipe. Two, through traffic management. Manage the traffic that goes out of each NIC, that is, replication traffic through the default interface, and backup traffic through the secondary interface. To enable the inactive network interface, contact Barracuda Networks Technical Support.

Link Aggregation (LAG) allows you to bond two or more ports in parallel to achieve greater throughput. LAG has the following properties:

- LAG provides automatic recovery when individual physical links fail. As long as at least one physical link exists, the LAG connection continues to exist.
- Data transmission is distributed as frames over the physical links.
- All frames forming part of a specific data communication packet are transmitted over the same physical connection, ensuring delivery of the individual frames of a data communication packet in the correct order, preventing disordering.

Barracuda Networks uses Mode 4 (802.3ad) bonding, known as Dynamic Link Aggregation mode. This mode creates aggregation groups that share the same speed and duplex settings, and requires a switch that supports IEEE 802.3ad Dynamic link.

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