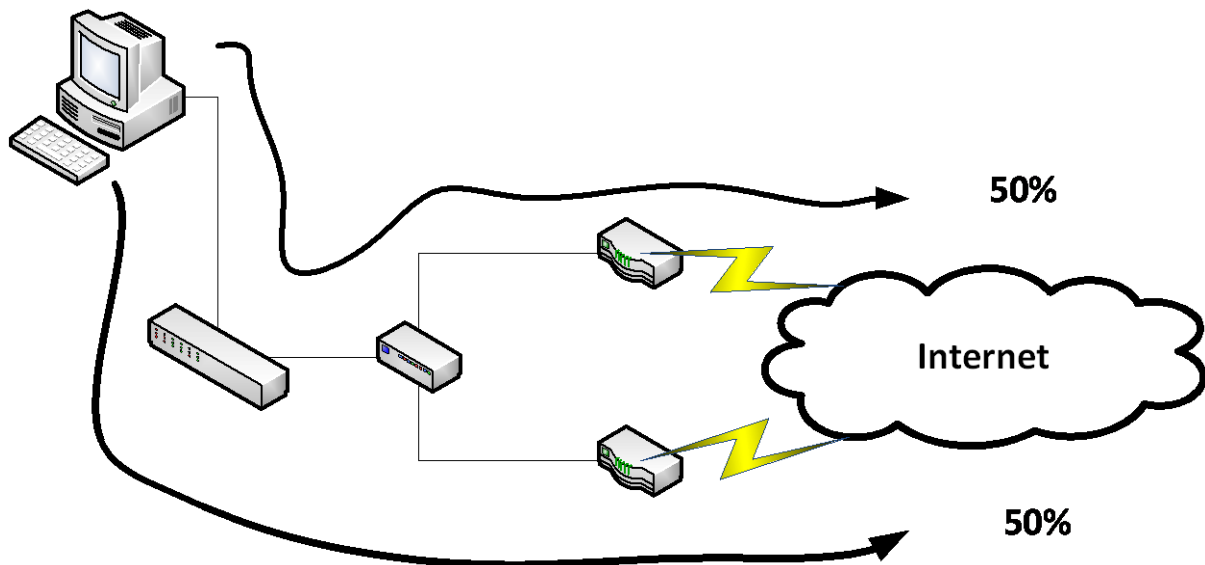


## The benefits of a fault tolerant multi-wan solution

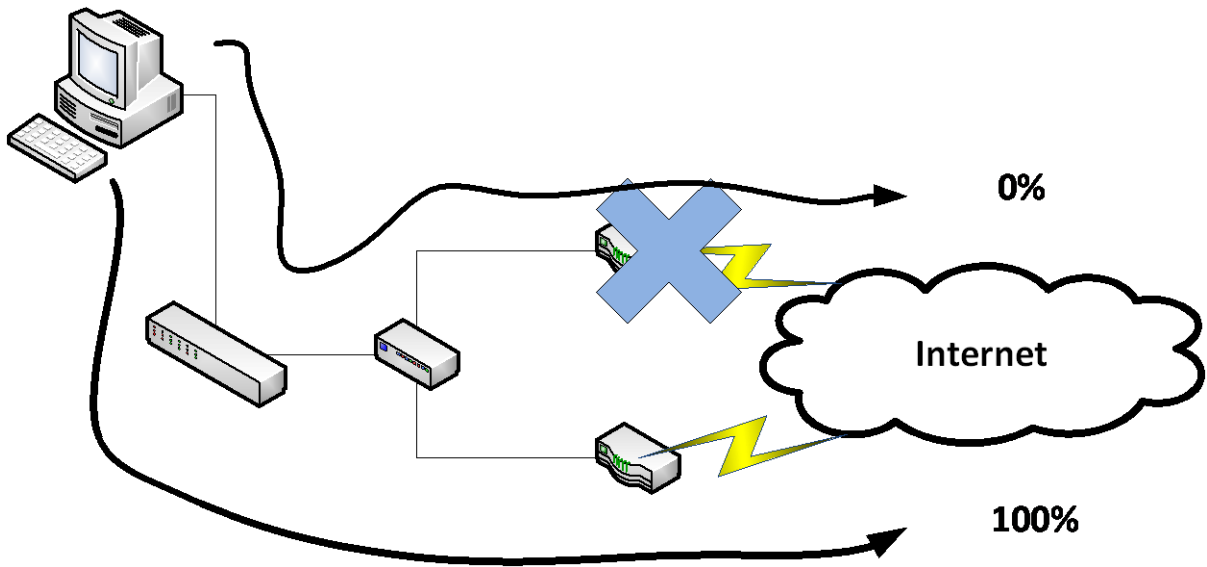
As we know, loss of internet connectivity or connectivity between the sites would have serious productivity issues. Therefore we regard it as essential to have a second internet connection at each site. In the diagrams below you can see how using a Sonicwall NSA240 at each site allows for fault tolerant internet, email and site to site VPN connectivity.

### Internet Connectivity

With both internet connections working, the internet traffic is load balanced across both connections. This is known as an active-active configuration.

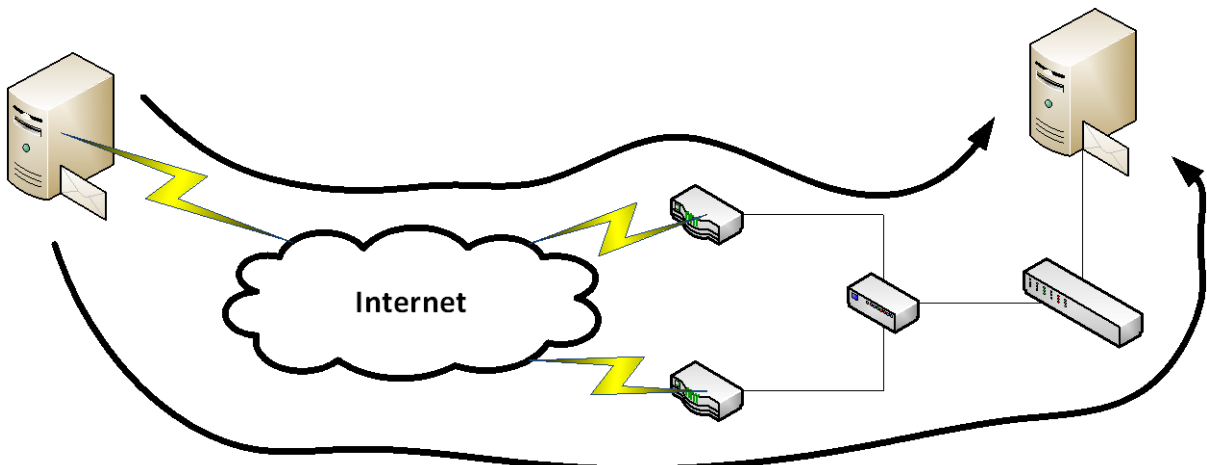


Should one of the internet connections fail, as traffic is already being routed out of both connections, only connections on the router that failed would notice the disruption as all traffic is transferred to the remaining connection.

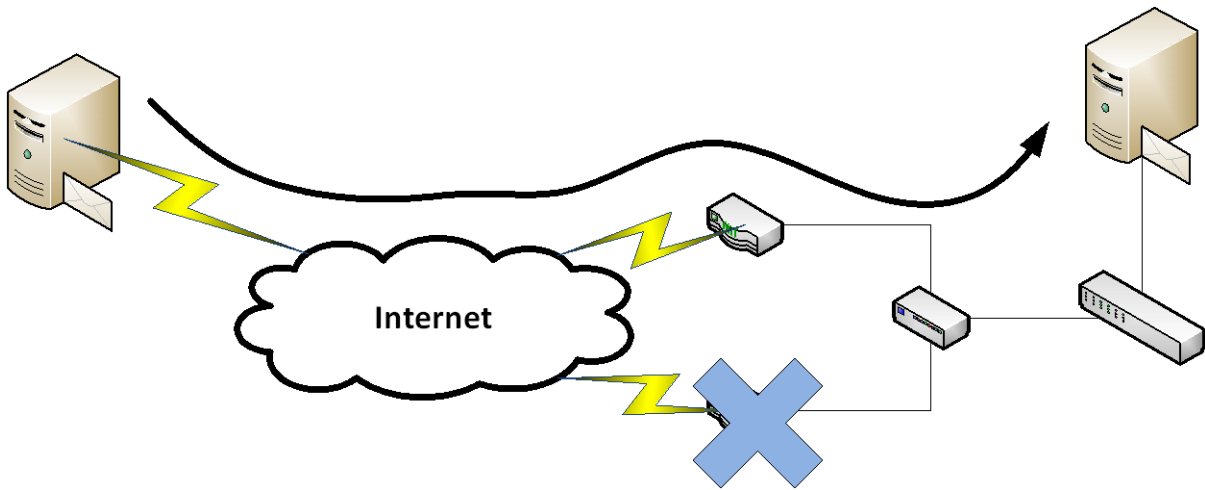


### E-mail Connectivity

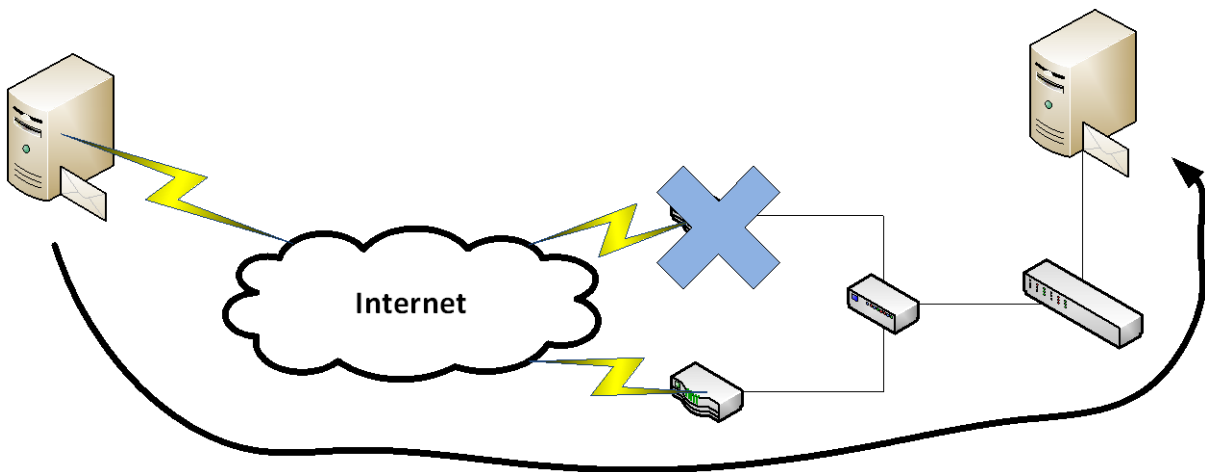
Primary and secondary e-mail routes via ADSL are up and working. DNS is configured to have both routes in the MX records.



Secondary route fails but Primary is still running. No disruption to service.



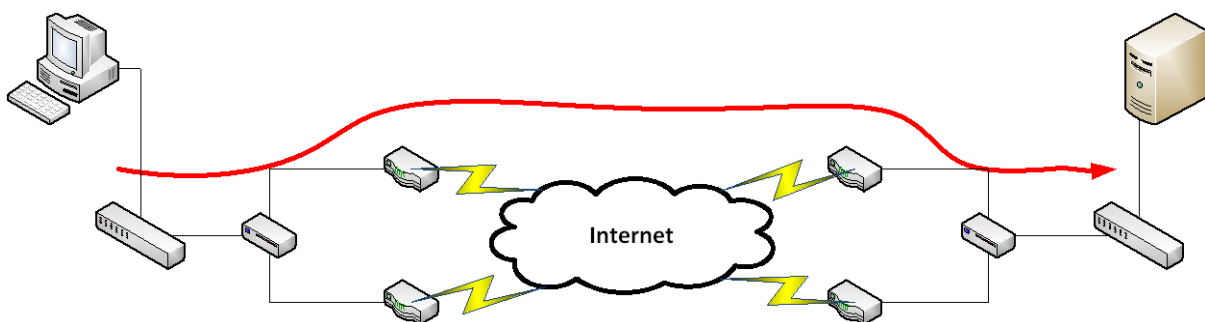
Primary route fails but Secondary is still running. No disruption to service.



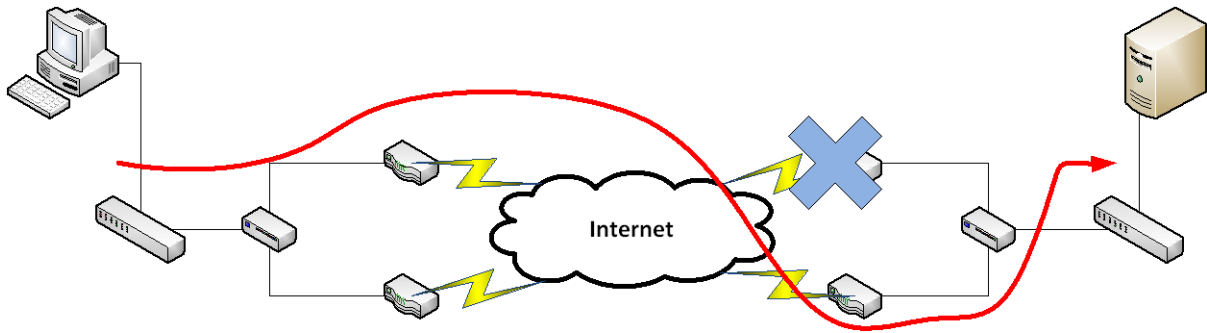
### VPN Connectivity

Below shows how a site to site VPN would recreate a connection in the event of a failure at each site.

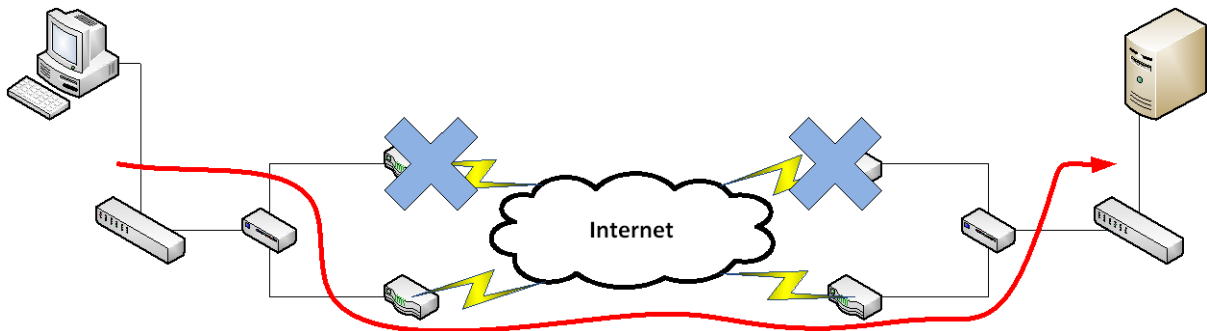
All internet connections are working and VPN connecting to primary remote gateway.



Primary VPN Gateway fails and the VPN connects to the secondary remote gateway.



Primary outgoing internet connection fails so multi-wan failover routes the VPN via the alternate internet connection to the secondary VPN remote gateway as the primary VPN gateway is still down.



There would be only minor disruption as each failure occurs and the system would automatically recover the VPN link within minutes without requiring user intervention.