PURPOSE: To visually depict cloud connection options identified from David Williams (Service Lead – Network Services) Nov 15, 2017 email to Todd Kissam (Chief, Enterprise Architect).

POC: David Williams – VITA Service Lead for Network Services

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A VPN or Virtual Private Network is a method used to add security and privacy to public and private networks, like WiFi hotspots and the Internet. VPNs are most often used by corporations to protect sensitive data. Security is the main reason why corporations have used VPNs for years. The most common VPN protocols are: 1) PPTP tunnels a point-to-point connection over the GRE protocol. PPTP security is strong, but not the most secure. 2) L2TP/IPsec - L2TP over IPsec is more secure than PPTP and offers more features. L2TP/IPsec is a way of implementing two protocols together in order to gain the best features of each. In this case, the L2TP protocol is used to create a tunnel and IPsec provides a secure channel. This makes an impressively secure package. 3) Open VPN - OpenVPN is an SSL-based VPN that continues to gain popularity. The software used is open source and freely available. SSL is a mature encryption protocol, and OpenVPN can run on a single UDP or TCP port, making it extremely flexible.  

https://www.whatistmyip.com/what-is-a-vpn/