

Comparison of Various VPN Protocols

Choosing which protocol to choose often becomes a confusing endeavor. To eliminate the confusion once and for all, we have created the following chart that contains the comparison and contrasts between various [VPN protocols](#):

	PPTP	L2TP	SSTP	IKEv2	OpenVPN	Stealth	
	128-bit	256-bit	256-bit	256-bit	256-bit	256-bit	
VPN Encryption							
PureVPN Apps Supported	<ul style="list-style-type: none"> • Windows • Mac • iOS 	<ul style="list-style-type: none"> • Windows • Mac • iOS 	<ul style="list-style-type: none"> • Windows • Mac 	<ul style="list-style-type: none"> • Windows • Mac • iOS 	<ul style="list-style-type: none"> • Windows • Mac • iOS 	<ul style="list-style-type: none"> • Windows • Android 	<ul style="list-style-type: none"> • Windows
Manual Setup Supported	<ul style="list-style-type: none"> • Windows • Mac • iOS • Linux • Router • Qnap • Synology Nas • Raspberry Pi 	<ul style="list-style-type: none"> • Windows • Mac • iOS • Android 	<ul style="list-style-type: none"> • Windows • Mac • Linux 	<ul style="list-style-type: none"> • Windows • Mac • iOS • BlackBerry • Windows Phone 	<ul style="list-style-type: none"> • Windows • Mac • iOS • Android • Linux • Router • Qnap • Synology Nas • Raspberry Pi 	<ul style="list-style-type: none"> • Windows 	
VPN Security	Standard encryption. The security is minimum but better than doing without a VPN.	Highest encryption. Verifies data integrity by checking twice.	Highest level of encryption. Data gets thoroughly verified before being sent and received. SSL encryption included.	Fastest and most secure VPN protocol. It makes you and your online activities anonymous on the web.	Highest encryption. Verifies data with digital certification.	This is the most secure VPN protocol amongst all which offers unparalleled security while you're on the web.	
VPN Speed	Fast due to lower level of encryption.	Relatively slow as it requires more CPU processing.	Slow speed due to superior level of privacy and security.	Fast VPN speed along with encrypted online connectivity.	Smooth performing protocol. Fast speeds on high latency connections.	Stealth VPN maintains a balance between speed and encryption.	
Ports Used	PPTP uses TCP	L2TP uses UDP ports -1701 and ESP protocol 50	443	4500	OpenVPN uses TCP port 80 and Port 53 for UDP.	443 and 5500	

	PPTP port 1723 and GRE Protocol 45	L2TP	SSTP	IKEv2	OpenVPN It also uses Multi- ports as well for TCP from port number 5500 to 55000	Stealth
Conclusion	PPTP is easy to setup and delivers decent speeds. Less secure than other VPN protocols. Also, bypasses geo-restrictions	L2TP delivers lower speeds because of encryption but allows you to bypass geo-restrictions	SSTP is the most secure protocol that delivers exceptional privacy and security	IKEv2 uses strong encryption and delivers fast browsing speeds	OpenVPN performs great under high latency connections and provides strong encrypted connectivity	Stealth VPN allows you to bypass firewalls and access restricted content from anywhere

Have anything to add or want to share any suggestions? Please use the comment box below.