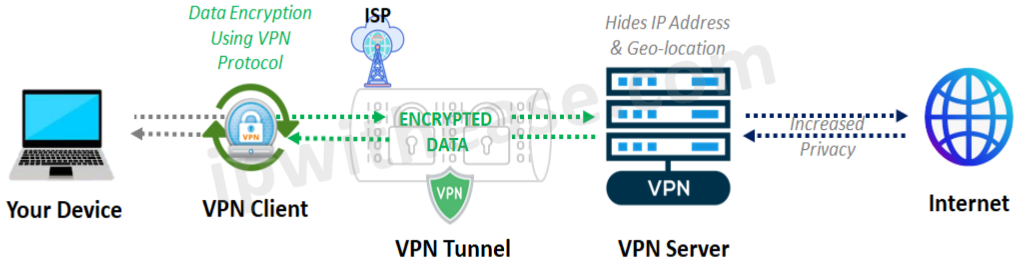
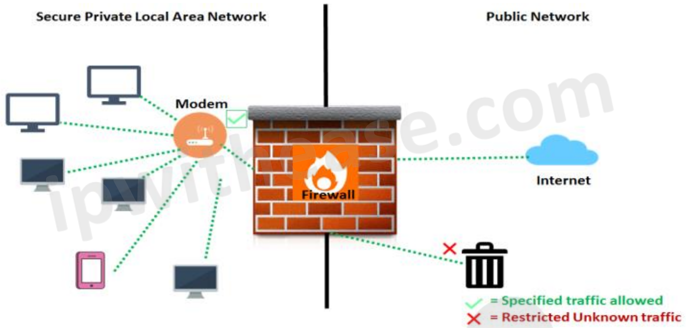
Function	VPN	Firewall
	 Data Encryption Using VPN Protocol ISP Hides IP Address & Geo-location ENCRYPTED DATA VPN Increased Privacy Your Device VPN Client VPN Tunnel VPN Server Internet	 Secure Private Local Area Network Public Network Modem Firewall Internet ✓ = Specified traffic allowed ✕ = Restricted Unknown traffic
Functionality	VPN keeps your location unknown to others by creation of a proxy network for secure connection	Firewall prevent cyber-attacks with a protective boundary
Purpose	VPN permits access to restricted sites using a secure connection. This is achieved via data encryption and concealing an IP address	Firewall creates layers of restriction that you have access to. Firewall regulates and keep tab on network traffic based on set of policies which are used to examine incoming and outgoing traffic and take appropriate action accept, reject, or drop as required
Features	VPN establishes a private connection over a public channel such as Internet	Firewall blocks website which are deemed unsecured
Working	VPNs do not rely on a central server to keep connection secure. Data is encrypted and send over a secure channel so that third parties will have difficulties to access it	Firewall rely on a central server , appliance or virtual appliance which examine traffic based on set of security policies
Implementation scenarios	Large organization with several sites and complicated network. Providing only restricted access to the company network and monitor who is using the network.	Provide safeguard against malicious software entering corporate network , perimeter security and first line of defense for company network
Connection	VPNs are used to create secure connection between two networks	Firewalls are used to protect network from external threats
Features	▪ VPN slows down speed of internet connection ▪ VPN does not encrypt traffic ▪ Potential for security breaches as data is routed through third party server	• Firewalls cannot secure encrypted traffic • Complex to configure and manage • Slow down networks as they inspect all traffic pass through them • Needs to be updated regularly

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