Interview Questions – VPN and Privacy Tools

## 1. What is a VPN?

A VPN (Virtual Private Network) creates a secure tunnel between your device and the internet by encrypting your traffic and masking your IP address.

## 2. How does a VPN protect privacy?

It encrypts internet traffic, hides your real IP address, and prevents ISPs and third parties from monitoring your online activities.

## 3. Difference between VPN and proxy?

A VPN encrypts all traffic and works system-wide, while a proxy only reroutes specific applications and does not encrypt data.

## 4. What is encryption in VPN?

Encryption is the process of converting data into a secure format. VPNs use encryption protocols to secure data in transit and prevent unauthorized access.

## 5. Can VPN guarantee complete anonymity?

No. VPNs hide your IP, but tracking via browser fingerprinting, cookies, and accounts can still occur.

## 6. What protocols do VPNs use?

Common protocols include OpenVPN, WireGuard, IKEv2/IPSec, and LEAP (used by Riseup VPN).

## 7. What are some VPN limitations?

Slower speed, not all VPNs bypass restrictions, no protection from malware, and limited anonymity.

## 8. How does a VPN affect network speed?

It can slow down speed due to data encryption and longer routing paths through remote servers.