



## Uses of proxy servers:

### General users:

1. Obscure their IP
2. Avoid surveillance
3. Bypass browsing restrictions
4. Access resources as from a different country

### Developers:

1. Monitoring web traffic
2. Troubleshooting web applications

### Network administrators:

1. To block malicious traffic
2. To balance overflowing traffic



#### **Links for 'free web proxy':**

<https://hide.me/en/proxy>

<https://www.croxyproxy.com/>

<https://kproxy.com/>

#### **Links for 'public proxy server list':**

<https://www.proxynova.com/proxy-server-list/>

<https://free-proxy-list.net/>

#### **How to configure proxy settings on firefox:**

1. Open firefox.
2. Click ☰
3. Now click on the 'options' tab. For MAC users, this will be 'preferences'.
4. Then click on 'general' tab.
5. Scroll down to the 'network proxy' section and click on settings.
6. Now check the 'manual proxy configuration' box and enter your proxy's information.
7. Then click on okay, and your proxy settings are enabled.

Which of the following can proxies be used for?

A Hacking

B Network Traffic Administration

C Both of these



Well done. Correct Answer.

**Explanation:**

Upon setting up a proxy in the browser, a developer/debugger, or a pentester can see all the traffic of a website and then analyse it and play around with it. Also as traffic goes through a proxy, network administrators can block websites and monitor user traffic for administration.

*67% students get this answer correct at their first attempt*

D None of these

Q2/

Which of the following reasons for a VPN being better than a proxy is incorrect?

A All traffic is encrypted

B Doesn't keep logs

C Guarantees security and anonymity

D Makes hackers untraceable by the police



Well done. Correct Answer.

### Explanation:

Although a VPN guarantees that all data is secure, anonymous and there are no logs, if there is a legal request, VPNs will reveal the original IP address or other such related information about the user. So, a VPN cannot be used to be an untraceable malicious hacker.

Q3/

A proxy can only be used for web requests like HTTP, FTP, etc., whereas a VPN can be used for any application on any device regardless of the protocols.

A

True



Well done. Correct Answer.

**Explanation:**

A proxy's simple goal is to transfer web traffic through an intermediate gateway whereas the goal of a VPN is to make sure each and every packet leaving your device regardless of the application/protocol, is encrypted and then sent while masking your original IP address.

B

False

Q4/

Karan was excited to find out that he could use proxy services for free, from one of the free websites. But his sister thinks that it is slightly risky to use public free-to-use proxy servers.

A

True



Well done. Correct Answer.

**Explanation:**

Although your IP gets masked while using a public proxy server, but you don't know where your traffic is going through. Hence you must not enter critical information or visit critical websites while using a proxy.

B

False

Q5/

VPNs can be configured in the browser settings of all kinds of devices like PC, laptop, cellphone, etc.

A True

B

False



Well done. Correct Answer.

**Explanation:**

VPNs cannot be configured through browser settings. Instead, a specific VPN client application or software has to be downloaded on the device to connect and transfer data through a VPN.



Q6/

VPNs are completely free of cost and offer high speed.

A True

B False



Well done. Correct Answer.

**Explanation:**

Most reputed VPNs have paid plans. Although free VPN services are available, but most of them are restrictive of bandwidth, amount of data you can browse through them and are only good for browsing and not for streaming, online gaming, etc.

*80% students get this answer correct at their first attempt*



Now that we have come to the end of this topic, you should be able to:

1. Set up proxies to bypass local web filters
2. Define a proxy and its uses
3. Configure a proxy server for your network connection
4. Set up VPNs to bypass local web filters
5. Define a VPN and its uses
6. Change the IP address and verify the change

If you have doubts regarding any of the above mentioned points, please go through the relevant videos and text chapters again.

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