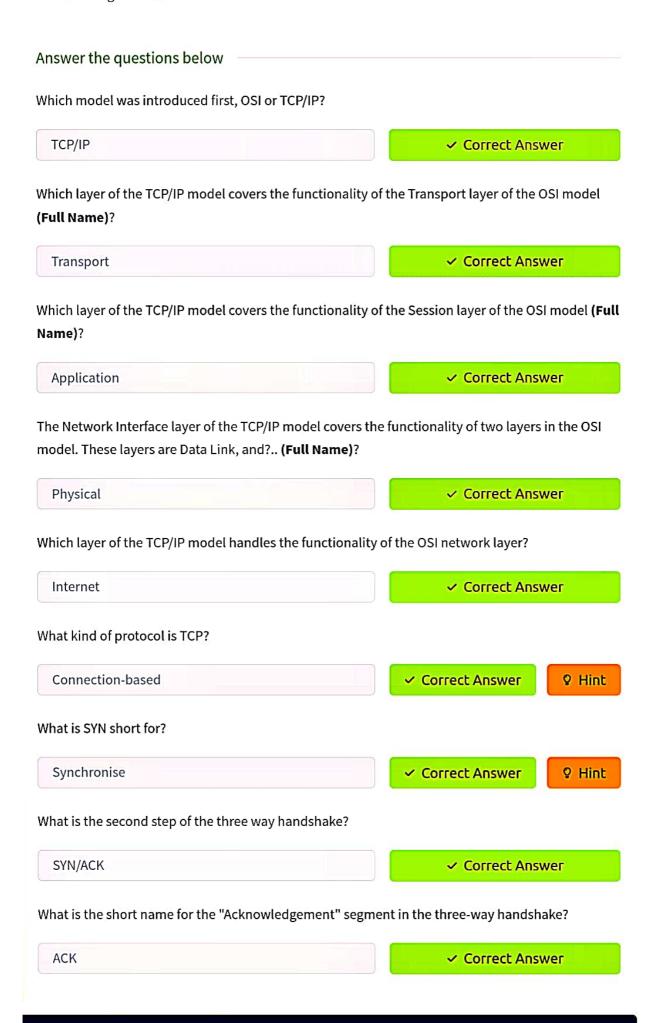
For the "Which Layer" Questions below, answer using the layer number (1-7)

International Organisation for Standardisation (ISO); however, it's mainly used as a more comprehensive guide for learning, as the TCP/IP model is still the standard upon which modern networking is based.

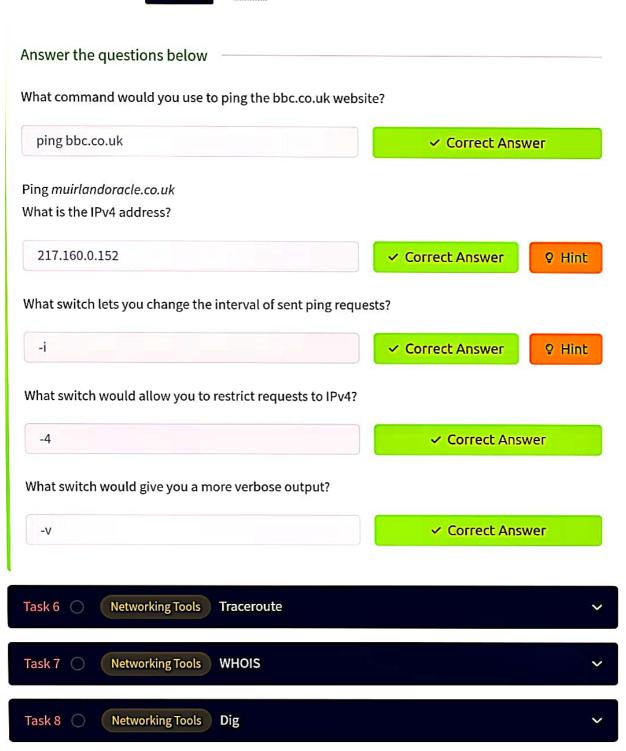


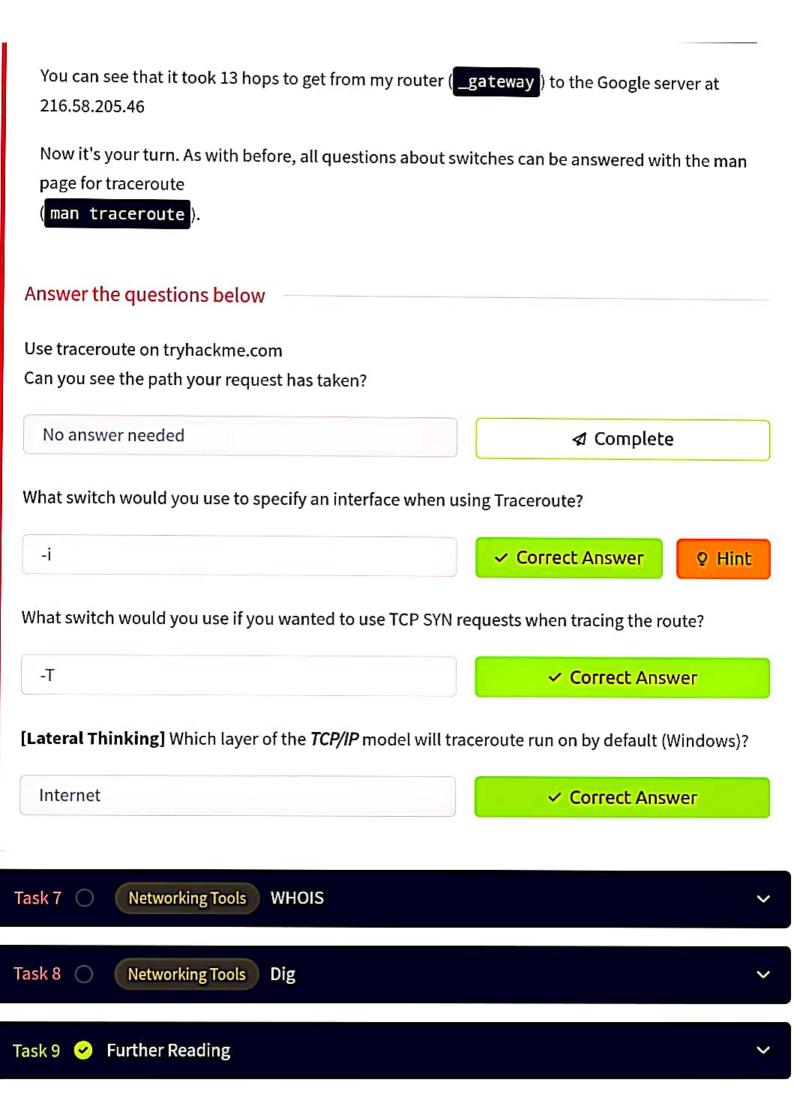
your home network if you want to check if it's configured correctly. Ping works using the ICMP protocol, which is one of the slightly less well-known TCP/IP protocols that were mentioned earlier. The ICMP protocol works on the Network layer of the OSI Model, and thus the Internet layer of the TCP/IP model. The basic syntax for ping is ping <target>. In this example we are using ping to test whether a network connection to Google is possible:

~\$ ping google.com PING google.com (216.58.198.174) 56(84) bytes of data.

Notice that the ping command actually returned the IP address for the Google server that it connected to, rather than the URL that was requested. This is a handy secondary application for ping, as it can be used to determine the IP address of the server hosting a website. One of the big advantages of ping is that it's pretty much ubiquitous to any network enabled device. All operating systems support it out of the box, and even most embedded devices can use ping!

Have a go at the following questions. Any questions about syntax can be answered using the man page for ping (man ping on Linux).





This is comparatively a very small amount of information as can often be found. Notice that we've got the domain name, the company that registered the domain, the last renewal, and when it's next due, and a bunch of information about nameservers (which we'll look at in the next task).

Your Turn

✓ Correct Answer
t: DD/MM/YYYY)?
✓ Correct Answer
tempting the next questions.)
✓ Correct Answer
registrant address for microsoft.com?
✓ Correct Answer
✓ Correct Answer

That's us completed our whirlwind tour of networking basics. Hopefully you've found it informative!

Networking is one of those things that you just need to learn. We've covered the very basics, but it would be a very good idea to continue to learn by yourself.

In terms of further information, feel free to reach out in the TryHackMe Discord if you want any help with the contents of this room. Additionally, if you want to expand your knowledge of networking theory, the CISCO Self Study Guide by Steve McQuerry is a great resource to work from. There may be a more up to date version available; however, this edition is cheap, readily available, and most importantly, still very relevant. Whilst it is designed to as a study guide for the CCNA exam, that book serves equally well as a very rounded introduction to networking principles.

Answer the questions below	
Read the final thoughts	
No answer needed	✓ Correct Answer