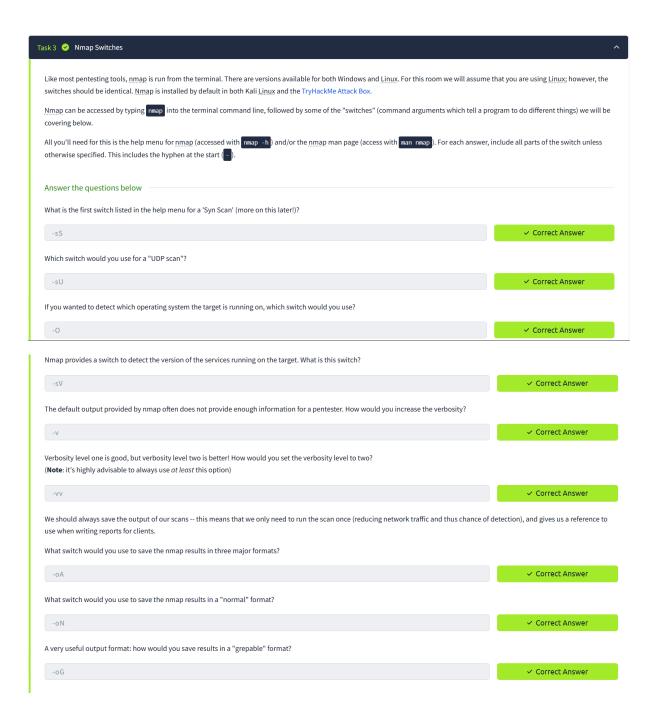


Nmap helps us establish which services are running on the targets that we are testing. We can perform a port scan to see which ports are open. Ports are necessary for making multiple multiple network requests of having multiple services available.

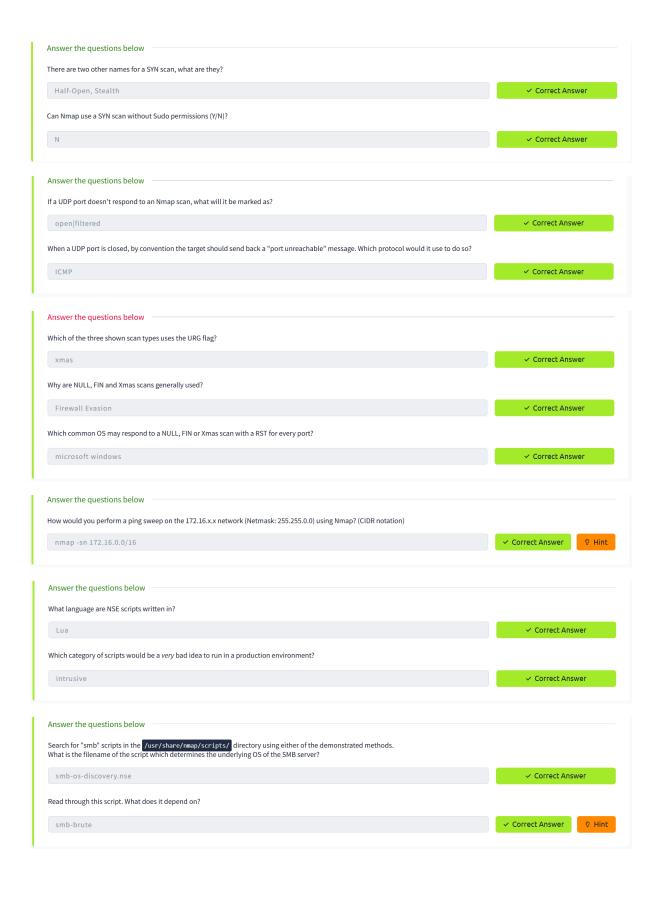


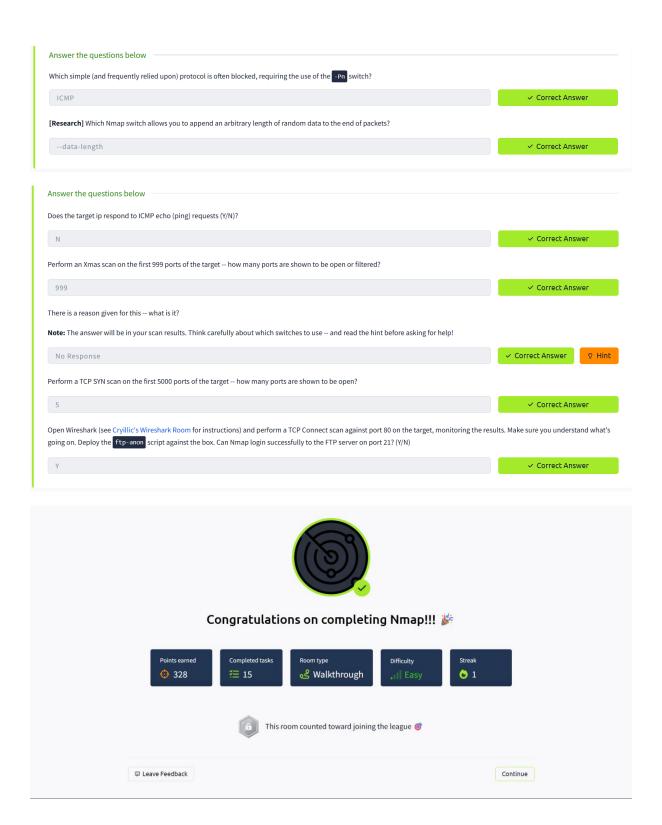
Deployed the machine





Sometimes the results we're getting just aren't enough. If we don't care about how loud we are, we can enable "aggressive" mode. This is a shorthand switch that activates service detection, operating system detection, a traceroute and common script scanning. How would you activate this setting? ✓ Correct Answer Nmap offers five levels of "timing" template. These are essentially used to increase the speed your scan runs at. Be careful though: higher speeds are noisier, and can incur errors! How would you set the timing template to level 5? -T5 ✓ Correct Answer We can also choose which port(s) to scan. How would you tell nmap to only scan port 80? -p 80 How would you tell nmap to scan ports 1000-1500? -p 1000-1500 Snipping Tool A very useful option that should not be ignored: Screenshot copied to clipboard How would you tell nmap to scan all ports? Automatically saved to screensho -p-Mark-up and sh How would you activate a script from the nmap scripting library (lots more on this later!)? --script ✓ Correct Answer How would you activate all of the scripts in the "vuln" category? ✓ Correct Answer --script=vuln Task 4 Scan Types Overview When port scanning with Nmap, there are three basic scan types. These are: • TCP Connect Scans (-sT) SYN "Half-open" Scans (-ss) • UDP Scans (-su) Additionally there are several less common port scan types, some of which we will also cover (albeit in less detail). These are: TCP Null Scans (-sN) • TCP FIN Scans (-sF • TCP Xmas Scans (-sx) Most of these (with the exception of UDP scans) are used for very similar purposes, however, the way that they work differs between each scan. This means that, whilst one of the first $three \ scans \ are \ likely \ to \ be \ your \ go-to \ in \ most \ situations, it's \ worth \ bearing \ in \ mind \ that \ other \ scan \ types \ exist.$ In terms of network scanning, we will also look briefly at ICMP (or "ping") scanning. Answer the questions below Read the Scan Types Introduction. ✓ Correct Answer No answer needed Answer the questions below Which RFC defines the appropriate behaviour for the TCP protocol? ✓ Correct Answer ♀ Hint RFC 9293 If a port is closed, which flag should the server send back to indicate this? RST ✓ Correct Answer





Completed the lab!