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#Scanner tool

import argparse

import nmap

def argument_parser():

    parser = argparse.ArgumentParser (description = "TCP port scanner. accept a hostname/IP
address and list of ports to" "scan. Attempts to identify the servie running on a port.")

    parser.add_argument ("-o", "--host", nargs = "?", help = "Host IP address")

    parser.add_argument ("-p", "--port", nargs = "?", help = "comma-separation port list, such as
'25,80,8000'")


    var_args = vars(parser.parse_args())

    return var_args


def nmap_scan (host_id, port_num):

    nm_scan = nmap.PortScanner()

    nm_scan.scan(host_id, port_num)

    state = nm_scan [host_id]['tcp'][int (port_num)][ 'state']

    result = ("[*] {host} tcp/port} {state)". format (host=host_id, port=port_num, state=state))

    return result


if __name__ == '__main__':

    try:

        user_args = argument_parser()

        host = user_args["host"]

        ports = user_args["ports"].split(",")

        for port in ports:

            print (nmap_scan (host , port))

    except AttributeError:

        print("Error, please provide the command_line_argument before running.")

```