



HACK LIKE A PRO

How to Scan the Globe for Vulnerable Ports & Services

BY OCCUPYTHEWEB

📅 8/6/13 8:45 AM

HACK LIKE A PRO

NMAP

W elcome back, my hacker novitiates!

Finding vulnerabilities in systems can be one of the most time-consuming tasks for a hacker. There will be times, though, when you'll find yourself in a position that you know that a particular port represents a vulnerable application or service.

The Story of Max Vision

For example, the gray-hat hacker, [Max Bulter](#), aka Max Vision, the founder of arachNIDS who's now serving 9 years in federal prison, found that the Aloha Point-of-Sale (POS) system had installed a remote backdoor to all their systems in order to provide technical assistance purposes to their customers.



Santa Clara County Sheriff

These Aloha systems are used by small-to-medium sized restaurants that take thousands of credit card numbers each year. Knowing this, Max set a computer program to constantly scan the U.S. for systems that had port 5505 open. This would indicate that the computer was running Alaho's POS system, as port 5505 is not used by any other common service, and that the vulnerable service was open and available.



When he found the port open, he would then execute an exploit against that port and service and scavenge all the credit card numbers he could. He then sold them for \$5 to \$50 each bringing him a tidy return for each hack.

How to Scan for Vulnerable Ports

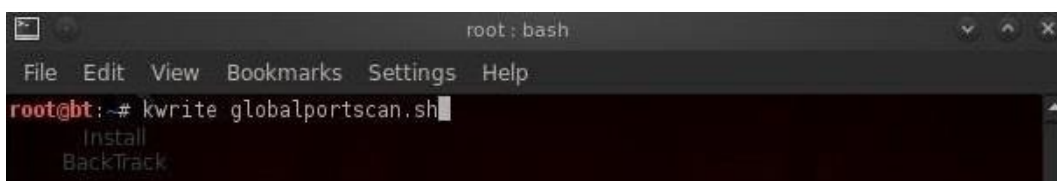
In this tutorial, we'll write a short script that does exactly what Max Vision was doing and send a report with every IP address of the vulnerable system.

Step 1: Open a Text Editor

To create our script, we need to open a text editor. Any of the [Linux](#) text editors will work; **vi**, **emacs**, **gedit** (in the GNOME), **Kate**, or **KWrite**. In this guide, we'll use the KWrite editor built into [BackTrack5v3 KDE](#). We simply type in a terminal:

- **kwrite globalportscan.sh**

We can name our script anything, but I have chosen to call it **globalportscan.sh**.





This will open a blank file editor for our script.

Step 2: Create the Script

Now we need to type the following lines in our script file.

- **#!/bin/bash**

The required opening of all BASH scripts.

- **nmap -sT 74.125.225.0/24 -p 5505 -oG aloha**

Does an nmap connect scan (-sT) to the subnet of google.com and looks for the port 5505 open and sends the output (-oG) to a file called aloha.

- **cat aloha | grep open > alohaopen**

Opens the file aloha and filters (grep) for lines that say open, and stores those lines in a file called alohaopen.

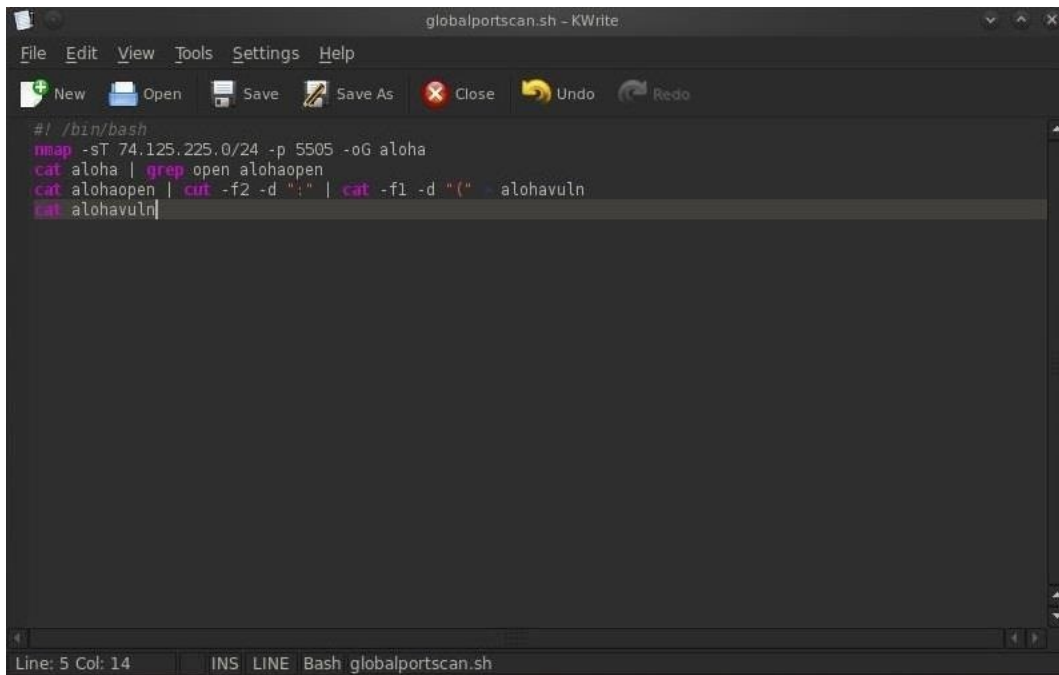
- **cat alohaopen | cut -f2 -d ":" | cut -f1 -d "(" > alohavuln**

Opens the file alohaopen and cuts it at the second field (-f2) defined by the delimiter (-d) semicolon (":"), then pipes that to a second cut command that cuts the file at the first field (-f1)

defined by the delimiter (-d) paren "("") and saves it into a file named alohavuln.

- **cat alohavuln**

Finally, we open and display the file that contains all the IP addresses of systems with port 5505 open.



```
globalportscan.sh - KWrite
File Edit View Tools Settings Help
New Open Save Save As Close Undo Redo
#!/bin/bash
nmap -sT 74.125.225.0/24 -p 5505 -oG aloha
cat aloha | grep open |> alohaopen
cat alohaopen | cut -f2 -d ":" |> alohavuln
cat alohavuln
```

Step 3: Run the Script

Now that you have saved the script, it's time to run it.

- **sh globalportscan.sh**

Now, sit back and wait for your results. It could take a while depending upon how many IP addresses you're scanning. In our example, we're only scanning 255 addresses, so it only takes a few minutes, but you could very well set this up to scan millions of addresses, in which you might wait days for results.

Step 4: Final Results

We can run this script on any IP address or network. I just used google.com as an example (you're not likely to find port 5505 open at google.com). You should see results that look something like this:



```
root : bash
File Edit View Bookmarks Settings Help
root@bt: ~#
root@bt:~# cat alohavuln
74.125.225.23
74.125.225.169
74.125.225.221root@bt: ~#
```

Of course, this vulnerability is likely closed in nearly all systems now, but this script can easily be edited to scan for other ports and other IP addresses depending upon your needs.

Want to start making money as a white hat hacker? Jump-start your hacking career with our [2020 Premium Ethical Hacking Certification Training Bundle](#) from the new [Null Byte Shop](#) and get over 60 hours of training from cybersecurity professionals.

[Buy Now \(90% off\) >](#)

Other worthwhile deals to check out:

- [97% off The Ultimate 2021 White Hat Hacker Certification Bundle](#)
- [99% off The 2021 All-in-One Data Scientist Mega Bundle](#)
- [98% off The 2021 Premium Learn To Code Certification Bundle](#)
- [62% off MindMaster Mind Mapping Software: Perpetual License](#)

POS system and World images via Shutterstock, Max photos via WIRED and Santa Clara County Sheriff

[WonderHowTo.com](#) [About Us](#) [Terms of Use](#) [Privacy Policy](#)

Don't Miss:

20 Things You Can Do in Your Photos App in iOS 16 That You Couldn't Do Before

14 Big Weather App Updates for iPhone in iOS 16

28 Must-Know Features in Apple's Shortcuts App for iOS 16 and iPadOS 16

13 Things You Need to Know About Your iPhone's Home Screen in iOS 16

22 Exciting Changes Apple Has for Your Messages App in iOS 16 and iPadOS 16

26 Awesome Lock Screen Features Coming to Your iPhone in iOS 16

20 Big New Features and Changes Coming to Apple Books on Your iPhone

See Passwords for All the Wi-Fi Networks You've Connected Your iPhone To

By using this site you acknowledge and agree to our terms of use & privacy policy.

We do not sell personal information to 3rd parties.