Table Of Contents 1/2

Table Of Contents

Table Of Contents	1
CMP IP Network Scanning with nmap tool	2

nixCraft: Linux Tips, Hacks, Tutorials, And Ideas In Blog Format http://www.cyberciti.biz/

Home > Faq > BASH Shell

ICMP IP Network Scanning / Probing using a Shell Commands

Posted by Vivek Gite <vivek@nixcraft.com>

Q. How do I check security of my network by running ICMP IP Network Scanning under FreeBSD / Linux? How do I subnet broadcast addresses? All I wanted to see if my firewall is working or not.

A. <u>Internet Control Message Protocol</u> ^[2] (ICMP) one of the core protocols of the Internet protocol suite. It is chiefly used by networked computers' operating systems to send error messages—indicating, for instance, that a requested service is not available or that a host or router could not be reached.



[1]

ICMP IP Network Scanning with nmap tool

You can use regular open source tool called nmap. Type the following command to run ICMP IP Scan:

```
$ nmap -sP -PI 192.168.1.0/24
```

Output:

```
Starting Nmap 4.20 (http://insecure.org) at 2008-01-29 23:40 IST
Host 192.168.1.1 appears to be up.
MAC Address: 00:18:39:6A:C6:8B (Cisco-Linksys)
Host 192.168.1.106 appears to be up.
.....
Nmap finished: 256 IP addresses (2 hosts up) scanned in 5.746 seconds
```

Where,

- -sP: This option tells Nmap to only perform a ping scan (host discovery), then print out the available hosts that responded to the scan. This is also known as ping scan.
- -PI: This open tells Nmap that we are sending ICMP echo requests

4000+ howtos and counting! Want to read more Linux / UNIX howtos, tips and tricks? Subscribe to our <u>daily email</u> newsletter or <u>weekly newsletter</u> to make sure you don't miss a single tip/tricks. Alternatively, subscribe via <u>RSS/XML</u> feed.

Article printed from Frequently Asked Questions About Linux / UNIX: http://www.cyberciti.biz/faq/

URL to article: http://www.cyberciti.biz/faq/howto-pingscan-icmp-ip-network-scanning/

URLs in this post:

- [1] Image: http://www.cyberciti.biz/faq/faq/category/networking/
- [2] Internet Control Message Protocol: http://en.wikipedia.org/wiki/Internet_Control_Message_Protocol

Copyright © 2006-2010 <u>nixCraft</u>. All rights reserved. This print / pdf version is for personal non-commercial use only. More details http://www.cyberciti.biz/tips/copyright.