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Finding All Hosts On the LAN From Linux / Windows Workstation

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Q. How do I find out if all host computers on the LAN are alive or dead from a Linux or Windows XP computer? My network subnet range is 192.168.1.0/24 and I'm using dual boot Debian Linux / XP SP2 computer.

A. You can use normal ping command and shell script loop statement to print the list of all LAN computers from a shell prompt.



Linux / UNIX one liner to ping all hosts on the LAN

[1]

Type the following command, enter:

```
$ for ip in $(seq 1 254); do ping -c 1 192.168.1.$ip>/dev/null; [ $? -eq 0 ] && echo "192.168.1.$ip UP" || : ; done
```

Output:

```
192.168.1.1 UP
192.168.1.1 UP
192.168.1.2 UP
192.168.1.5 UP
.....
...
..
192.168.1.254 UP
```

See previous article: [Simple Linux and UNIX system monitoring with ping command and scripts](#) [2].

A Note About Windows Workstation

If you are using Windows 2000 / XP / Vista, try something as follows at DOS / NT command prompt (Start > Run > CMD > Enter key):

```
c:> for /L %I in (1,1,254) DO ping -w 30 -n1 192.168.1.%I | find "Reply"
```

Read cmd.exe help page and batch scripting documentation for more information.

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[1] Image: <http://www.cyberciti.biz/faq/faq/category/networking/>[2] Simple Linux and UNIX system monitoring with ping command and scripts: <http://www.cyberciti.biz/tips/simple-linux-and-unix-system-monitoring-with-ping-command-and-scripts.html>

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