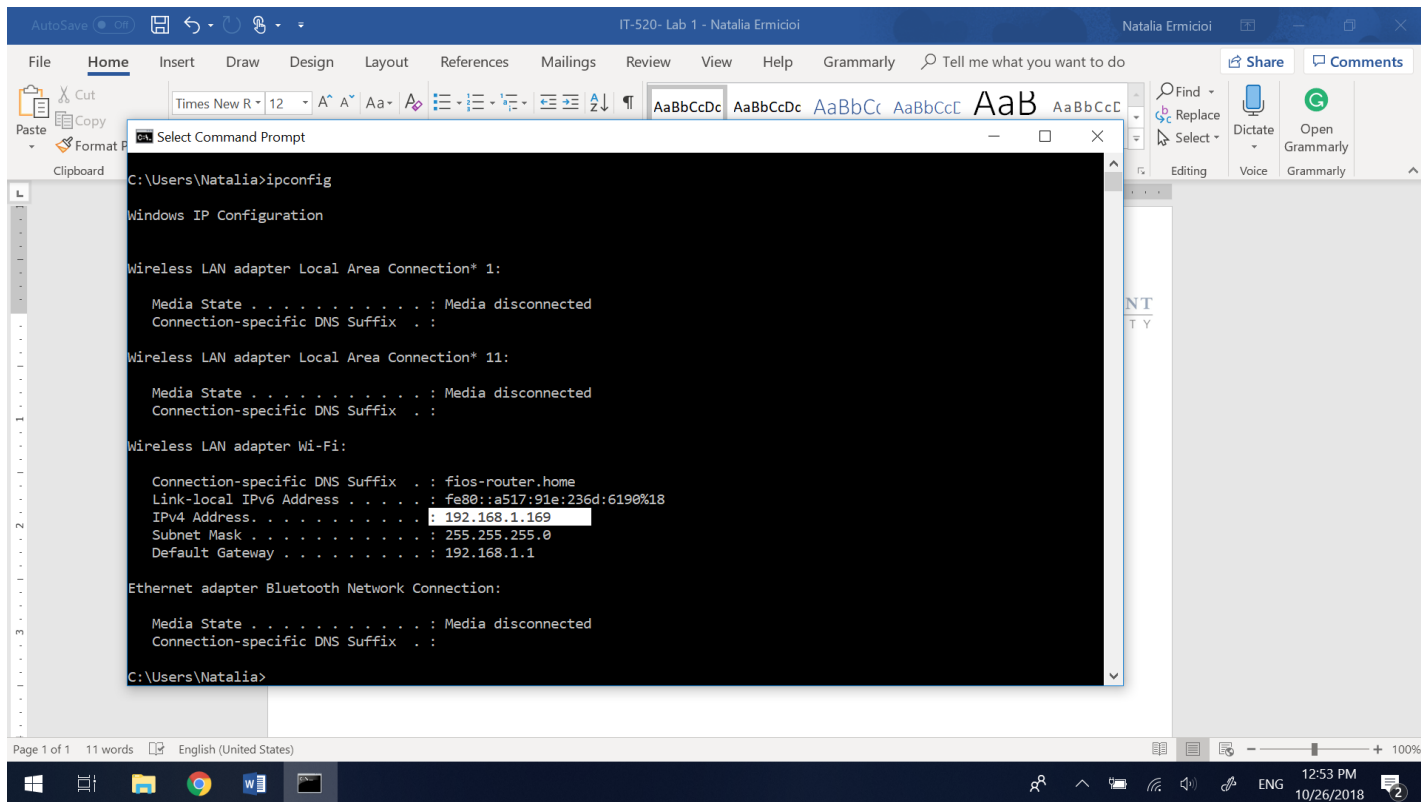


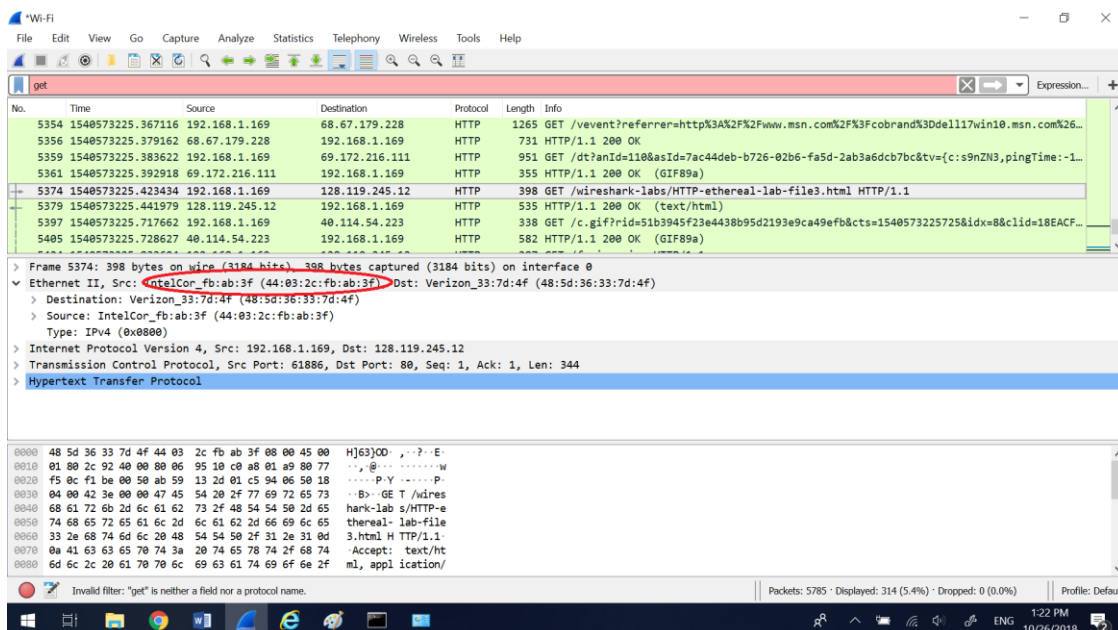
What is the Internet address of your computer?

Answer: 192.168.1.169



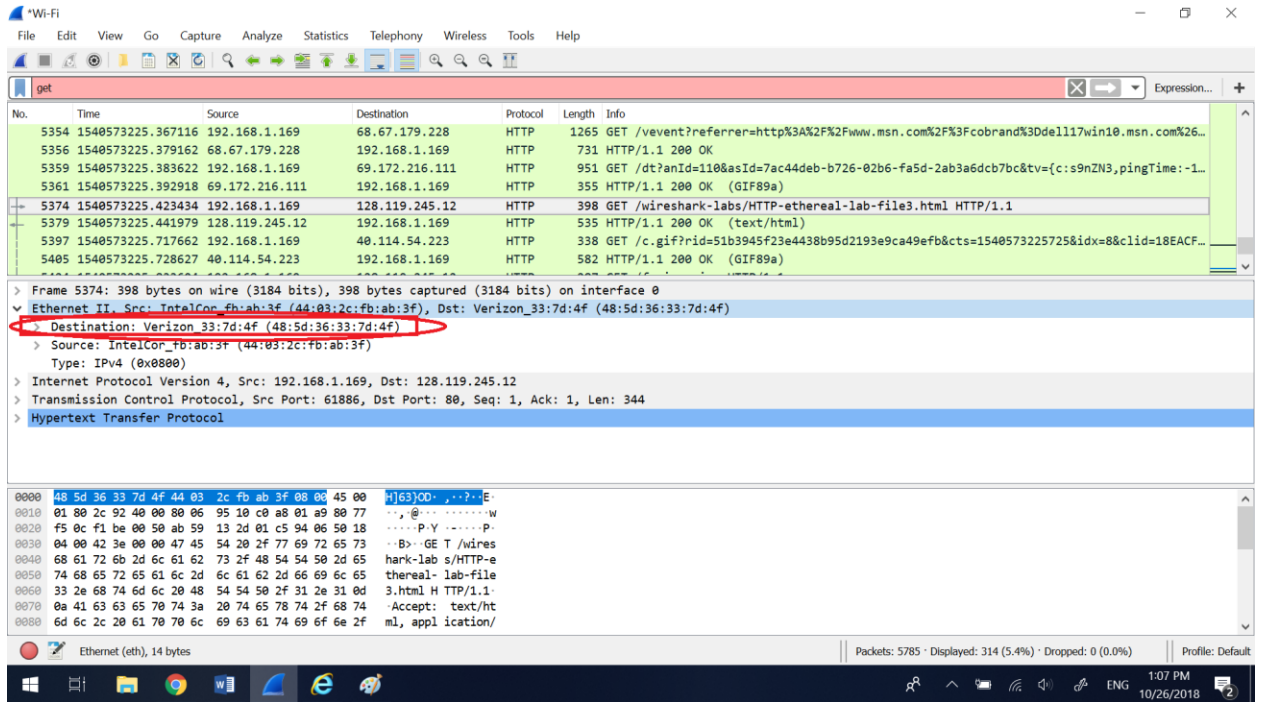
1. What is the MAC address from your computer?

Answer: 44:03:2c:fb:ab:3f



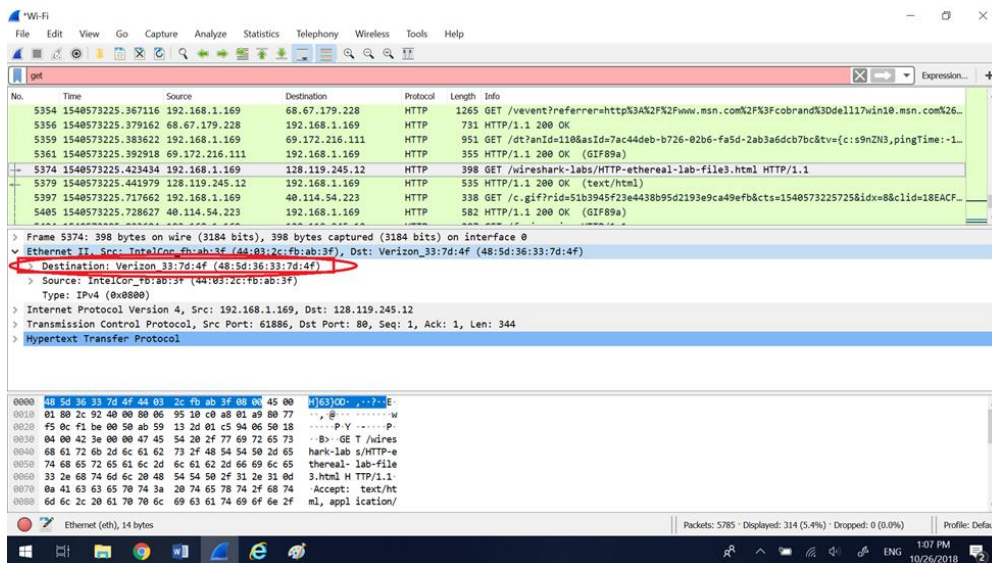
destination MAC address?

Answer: 48:5d:36:33:7d:4f



3. What device has the MAC address shown in the destination?

Answer: Is my Verizon router



4. Explain the relationship between the destination MAC address and the destination IP address.

Answer: The ARP Protocol (Address Resolution Protocol) is used to associate MAC addresses with IP addresses and is a way for a computer to look up an unknown MAC address for a device that it wants to communicate with. MAC addresses are only reached through the same network. So it sends an ARP request to get the MAC address of the default gateway if it is outside the local network or, if it is inside a local network - we use

ARP to broadcast a request on the local network to find the MAC address of the destination host.

5. Using the terminal (cmd in Windows, Terminal in mac), run a command to display your full ARP list table. (Find out what the command is, and print a full screen shot of your result.)

Answer: the command is “arp -a”

```
Command Prompt
Microsoft Windows [Version 10.0.17134.345]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Natalia>arp -a

Interface: 192.168.1.169 --- 0x12
Internet Address      Physical Address      Type
192.168.1.1           48-5d-36-33-7d-4f    dynamic
192.168.1.100         b0-93-5b-9a-35-e4    dynamic
192.168.1.154         30-cd-a7-a3-7a-85    dynamic
192.168.1.255         ff-ff-ff-ff-ff-ff    static
224.0.0.22            01-00-5e-00-00-16    static
224.0.0.251          01-00-5e-00-00-fb    static
224.0.0.252          01-00-5e-00-00-fc    static
239.255.255.250       01-00-5e-7f-ff-fa    static
255.255.255.255       ff-ff-ff-ff-ff-ff    static

C:\Users\Natalia>
```