

# CS50 for MBAs

Internet Technologies

# Seminar

Recruiting Software Engineers

# Last Time

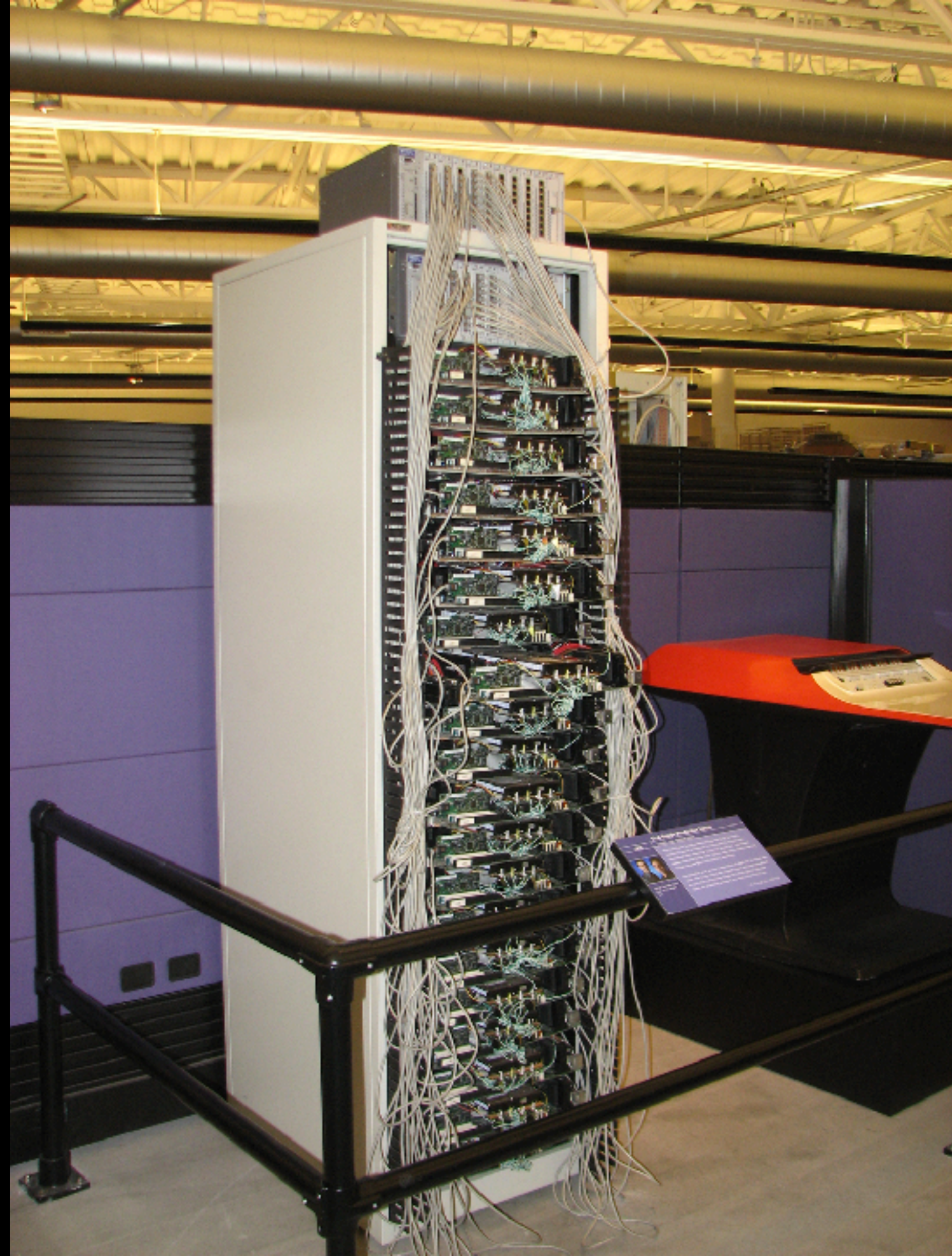
Algorithms, Data Structures

- correctness, efficiency
- searching, sorting
- arrays, linked lists, trees, hash tables

# This Time

Internet Technologies

- DHCP, DNS, HTTP, HTTPS, IP, TCP









facebook.com

[www.facebook.com](http://www.facebook.com)

[http ://www.facebook.com](http://www.facebook.com)

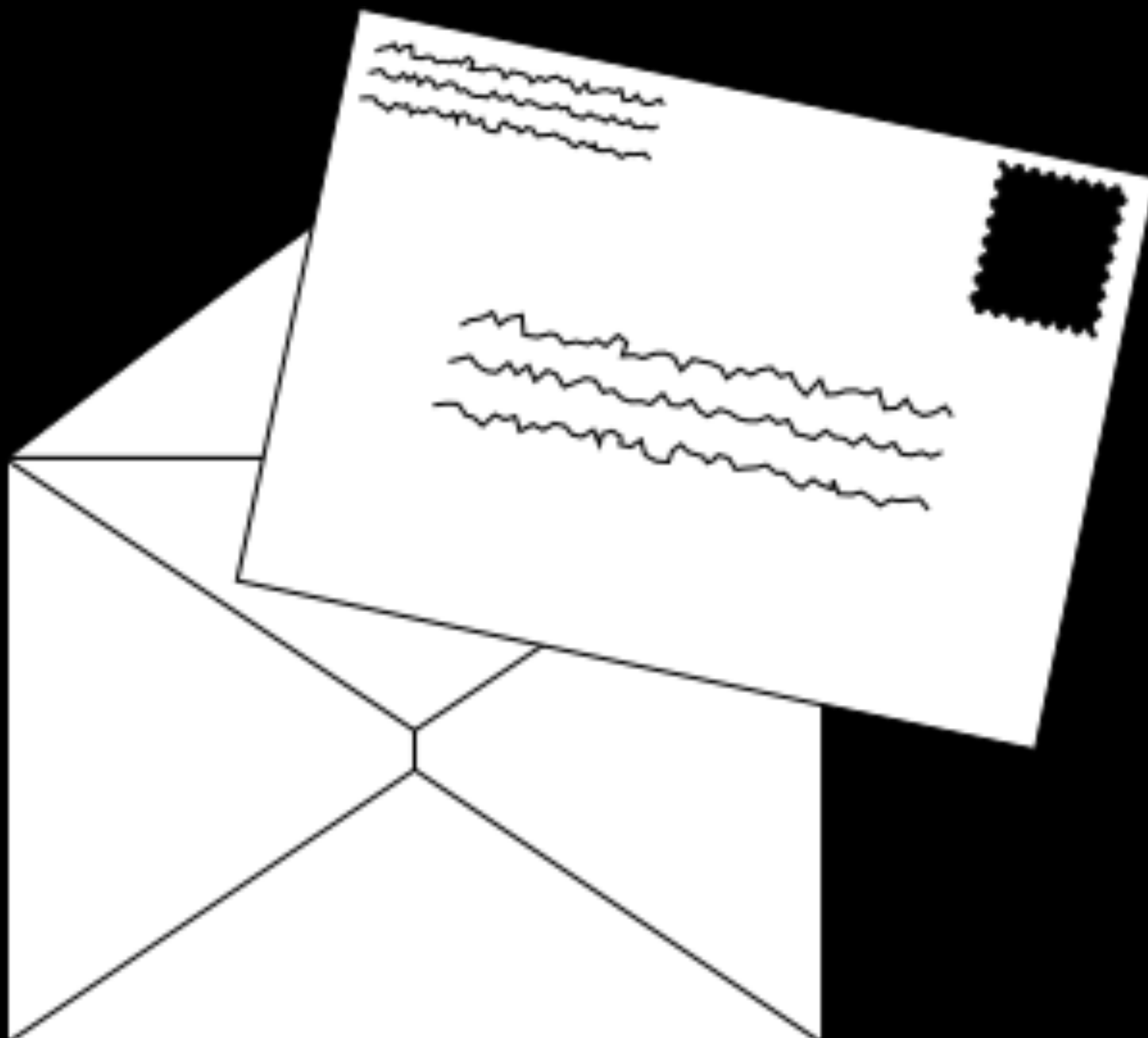
<https://www.facebook.com>



<https://www.facebook.com/>

<https://www.facebook.com/zuck>

http



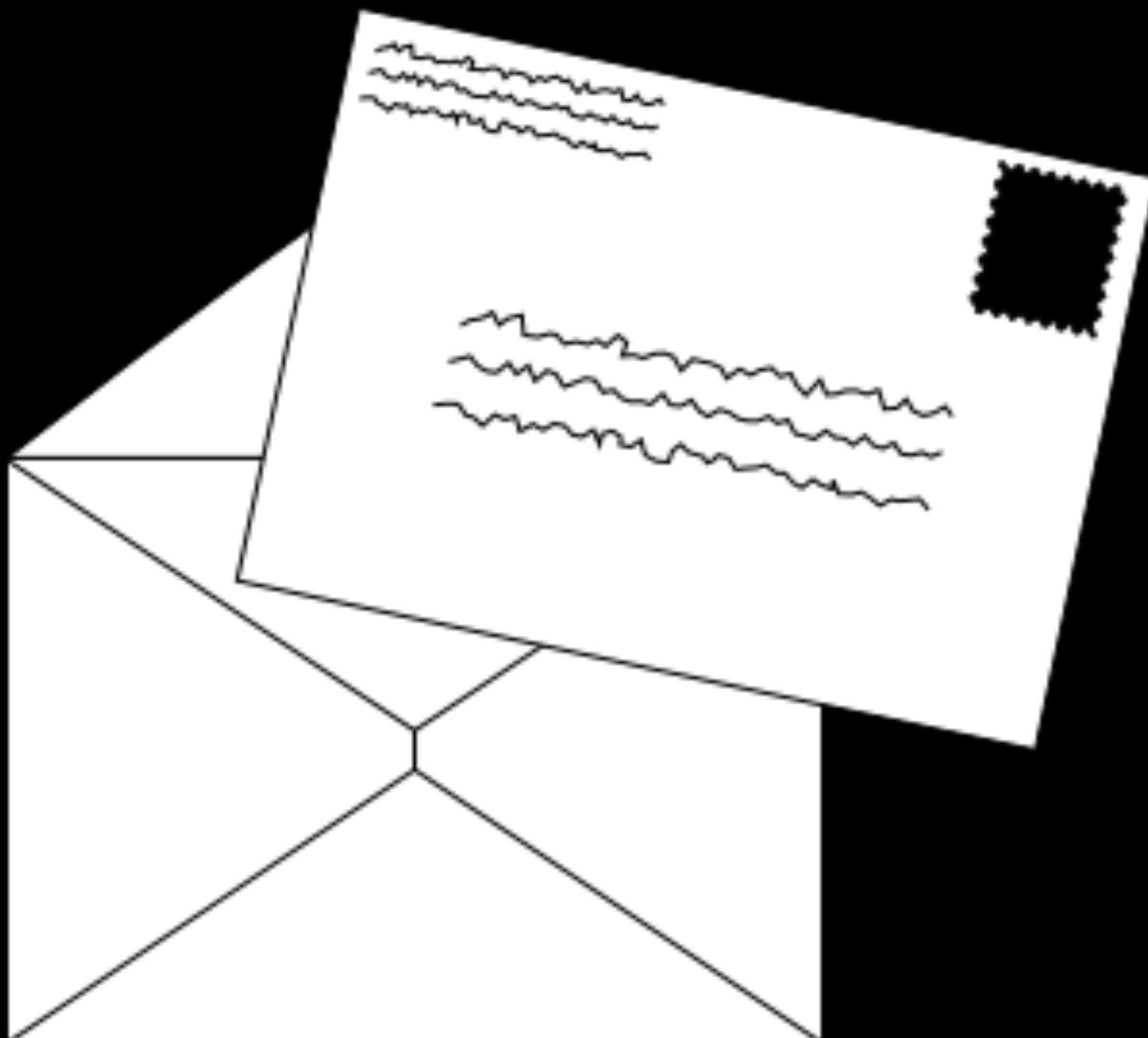


GET / HTTP/1.1  
Host: www.facebook.com

...

GET /zuck HTTP/1.1  
Host: www.facebook.com

...



HTTP/1.1 200 OK  
Content-Type: text/html

...



HTTP/1.1 200 OK  
Content-Type: text/html

...

HTTP/1.1 404 Not Found  
Content-Type: text/html

...

200 OK

301 Moved Permanently

302 Found

304 Not Modified

401 Unauthorized

403 Forbidden

404 Not Found

418 I'm a Teapot

500 Internal Server Error

...

200 OK

301 Moved Permanently

302 Found

304 Not Modified

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403 Forbidden

404 Not Found

418 I'm a Teapot

500 Internal Server Error

...



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HTTP/1.1 301 Moved Permanently

Content-Type: text/html

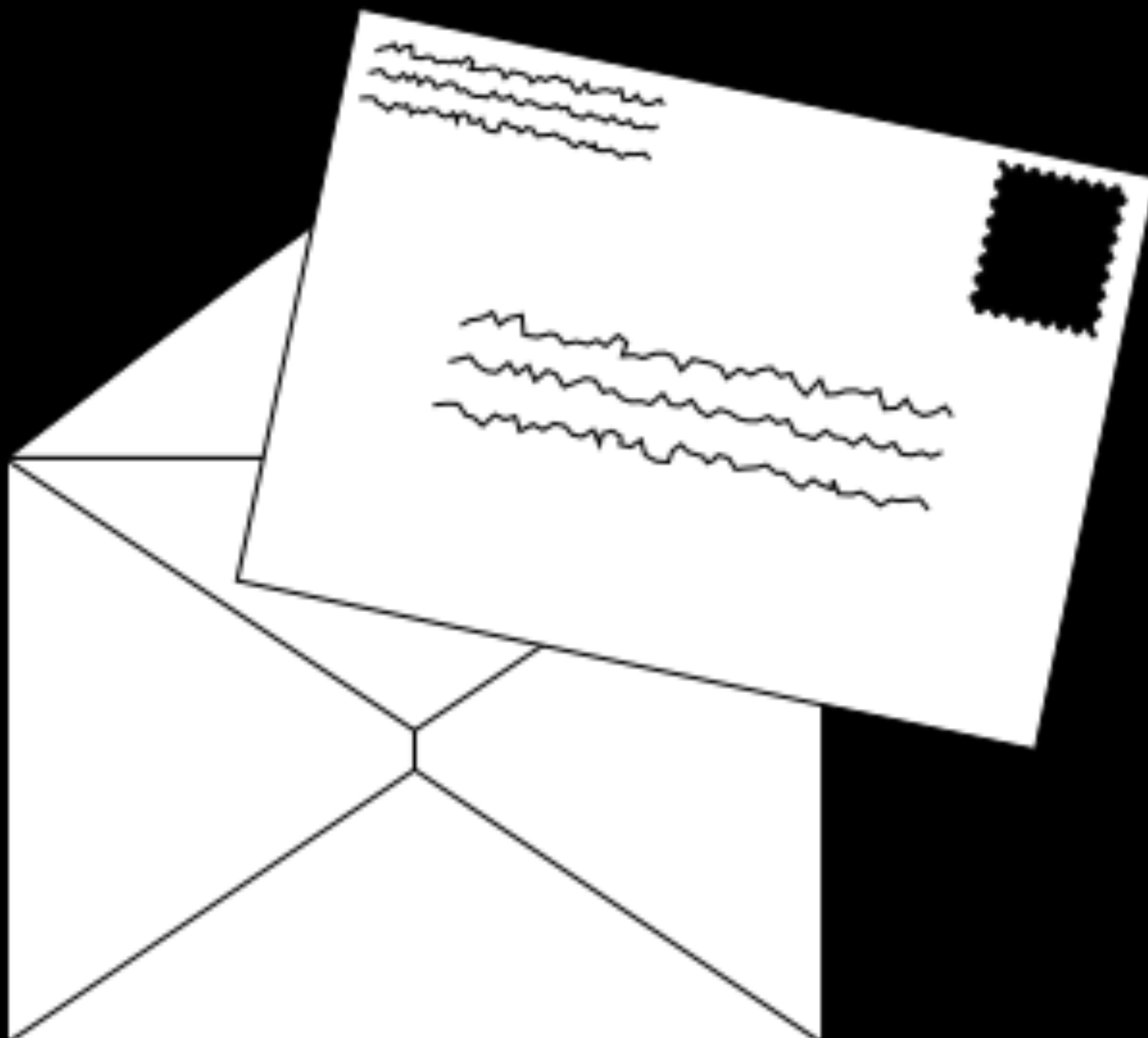
Location: <http://www.harvard.edu/>

...

HTTP/1.1 301 Moved Permanently  
Content-Type: text/html  
Location: <http://www.harvard.edu/>

...





IP

#####

0.0.0.0

...

255.255.255.255

140.247.#.#

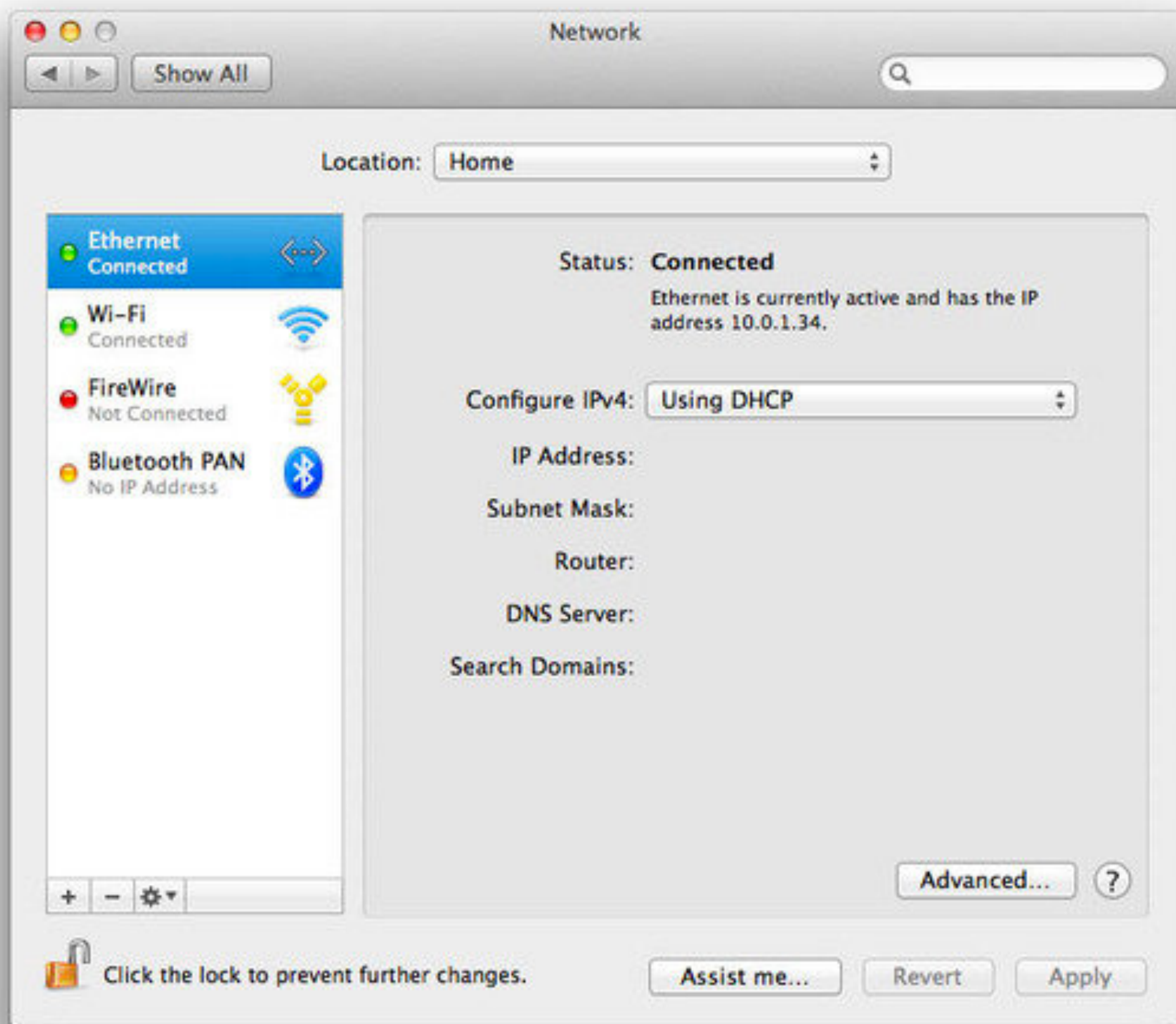
128.103.#.#

...

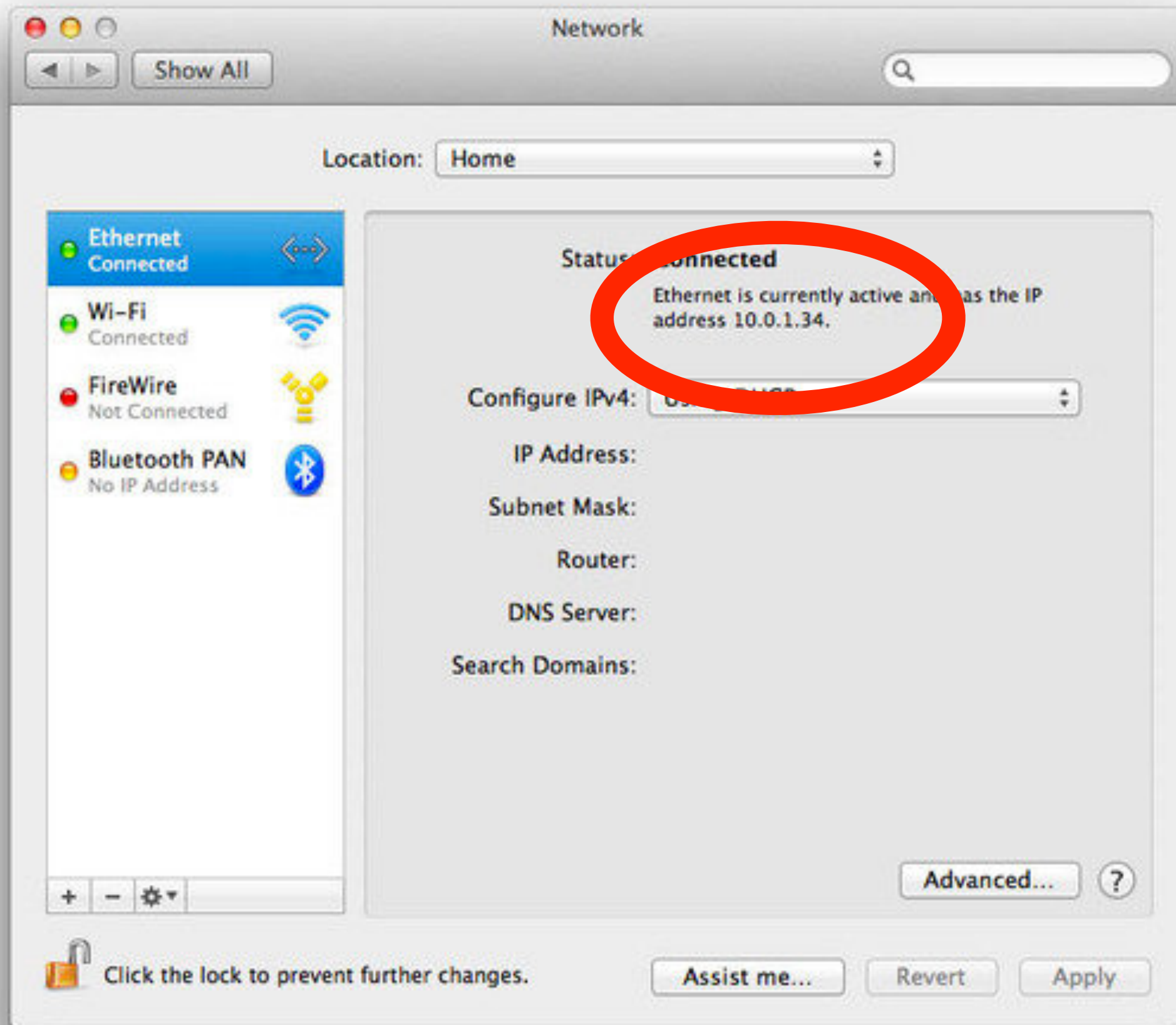
10.###

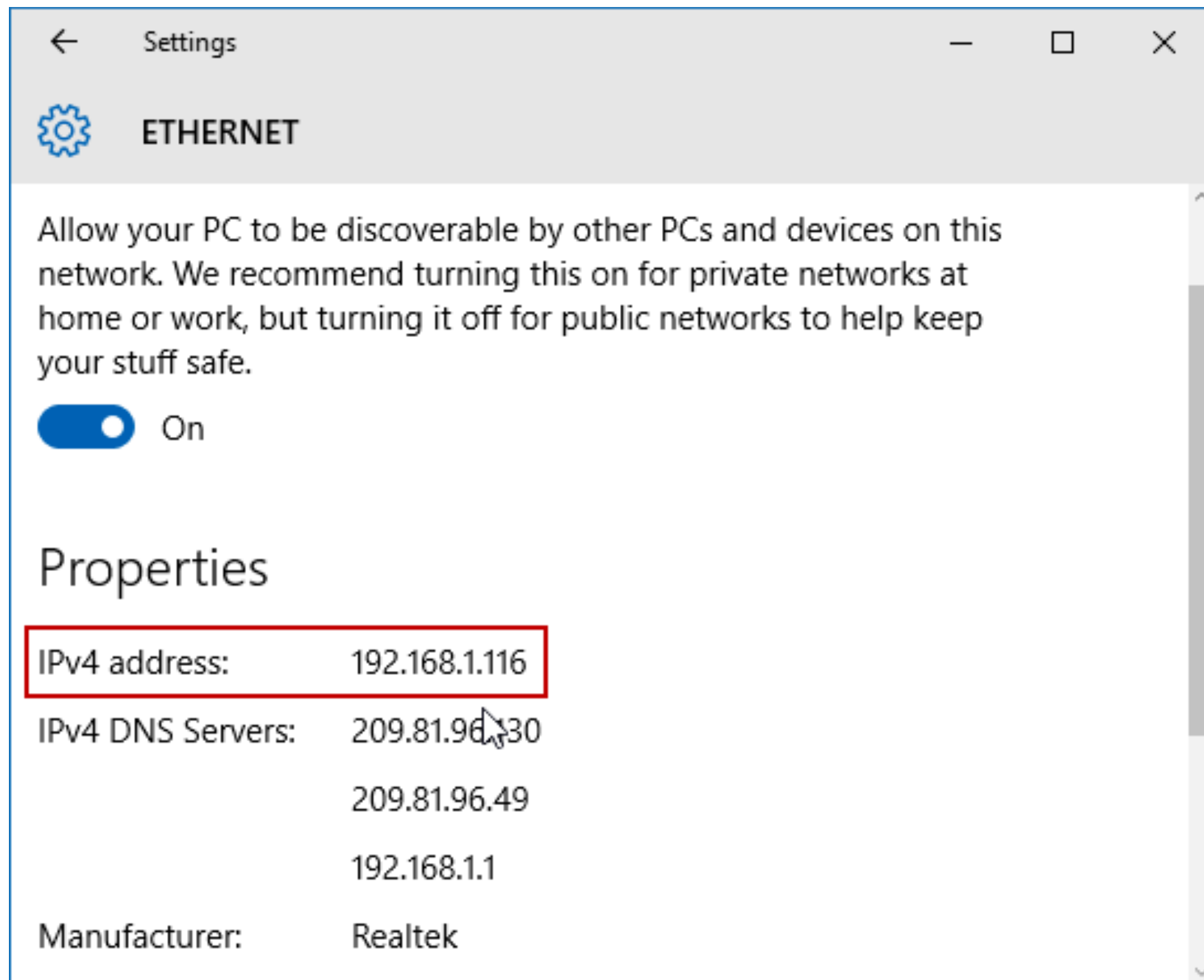
172.16.## – 172.31.##

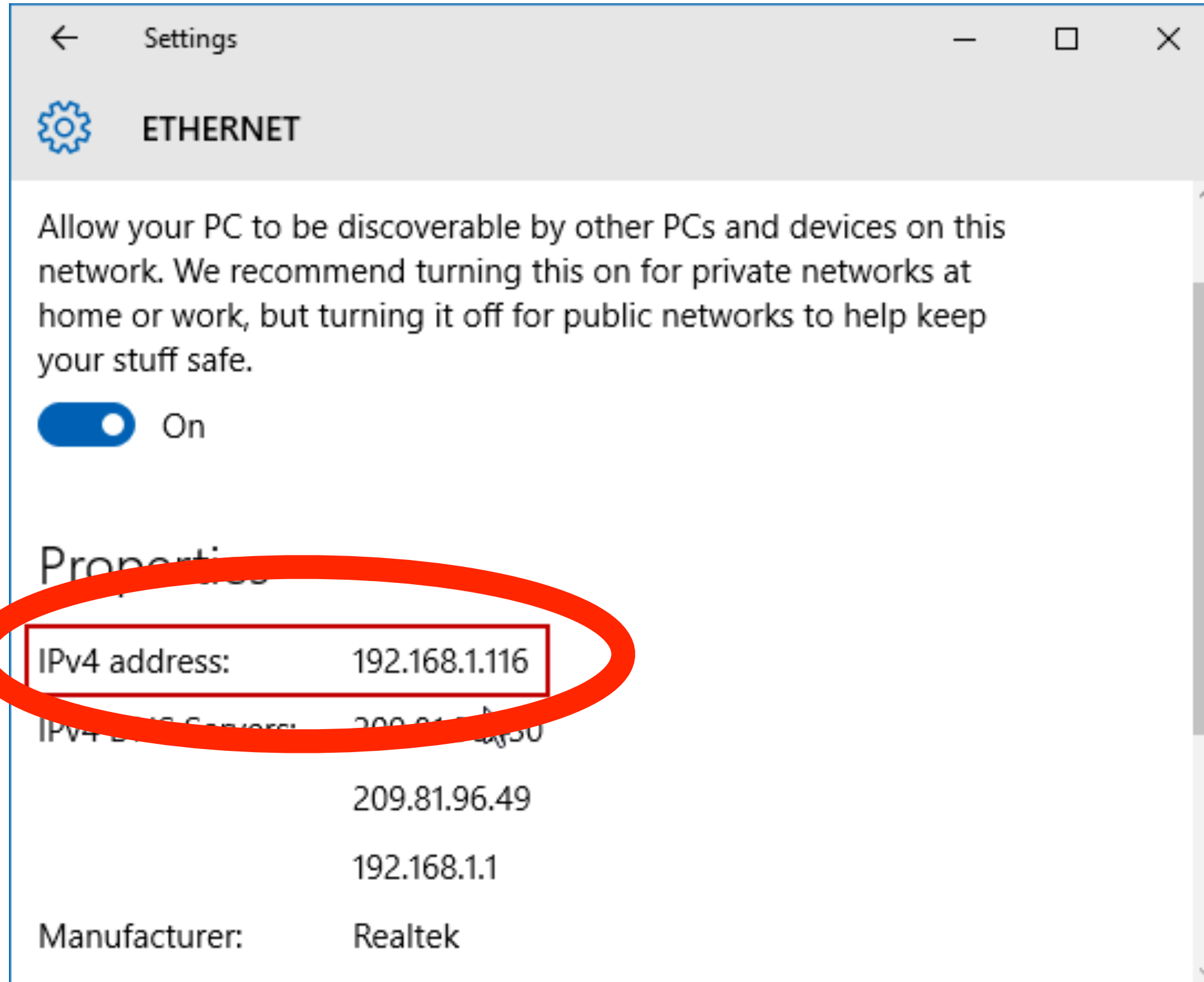
192.168.##



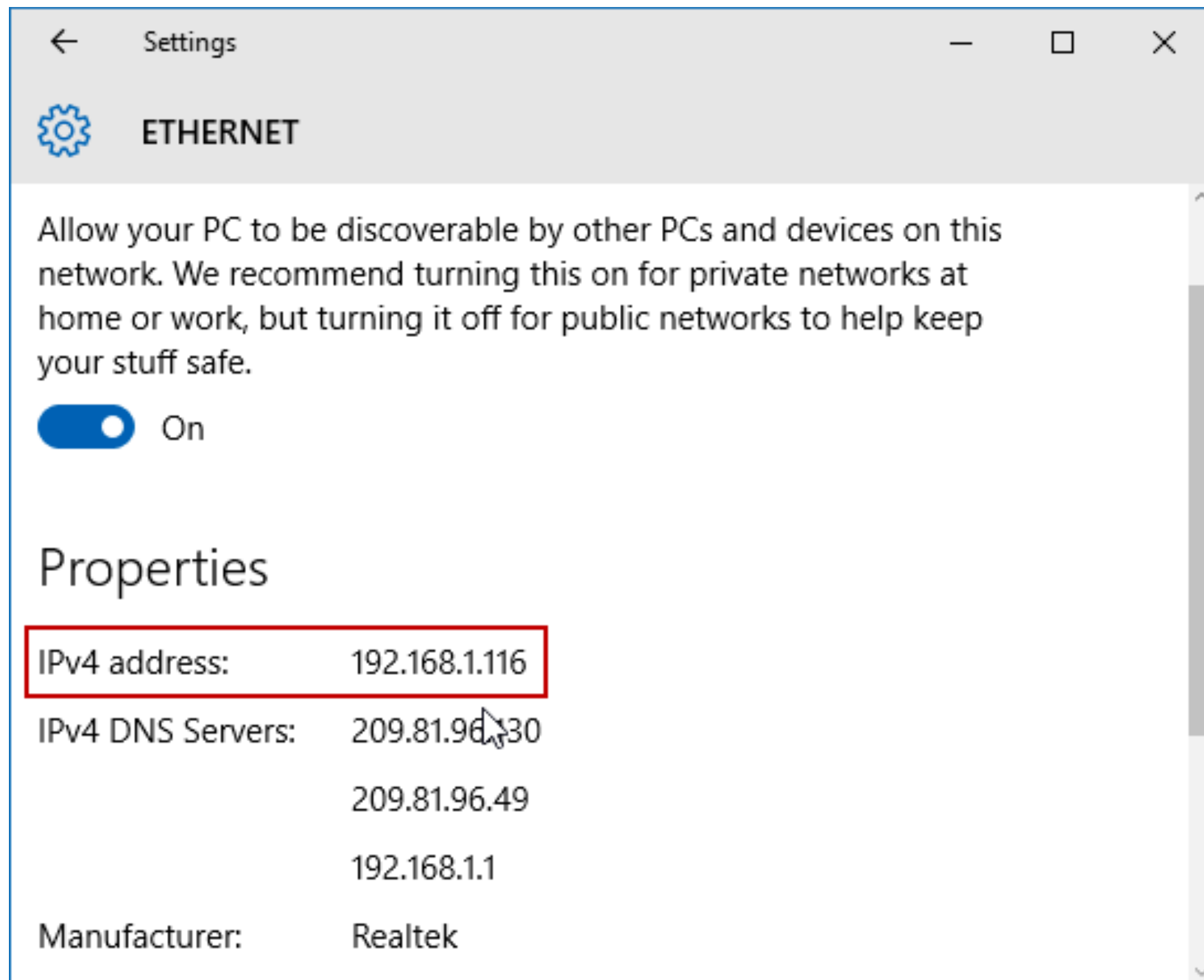


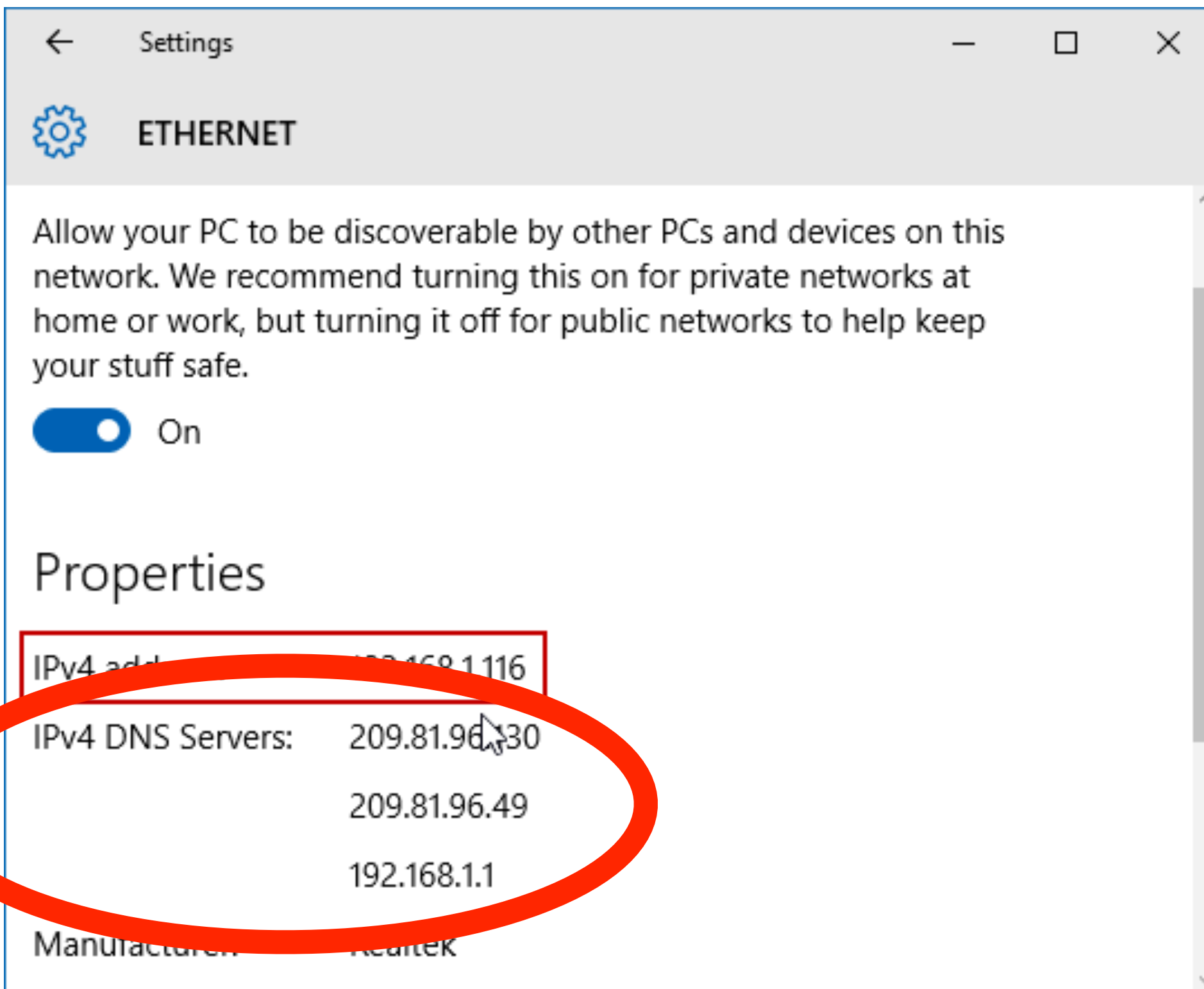




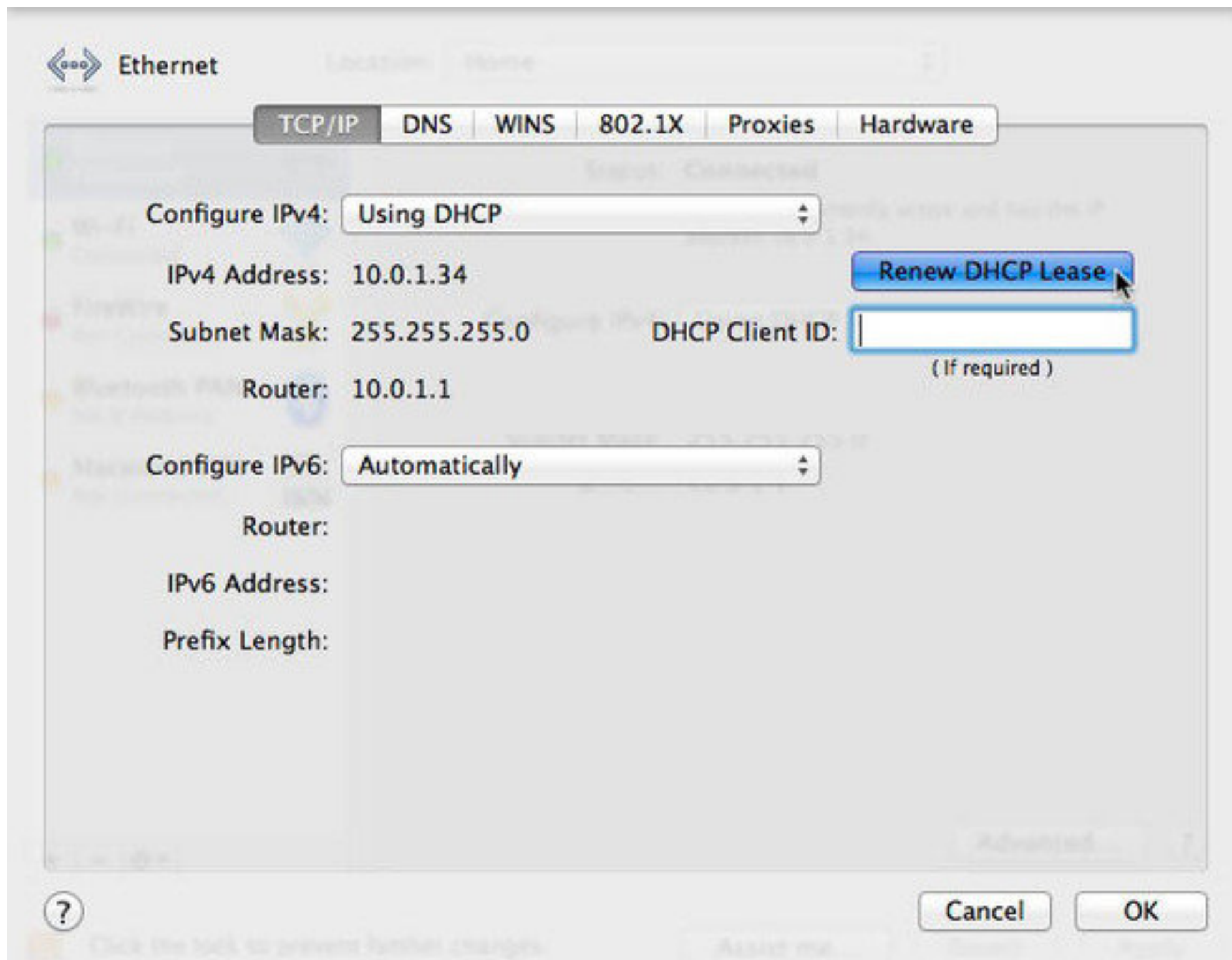


DHCP

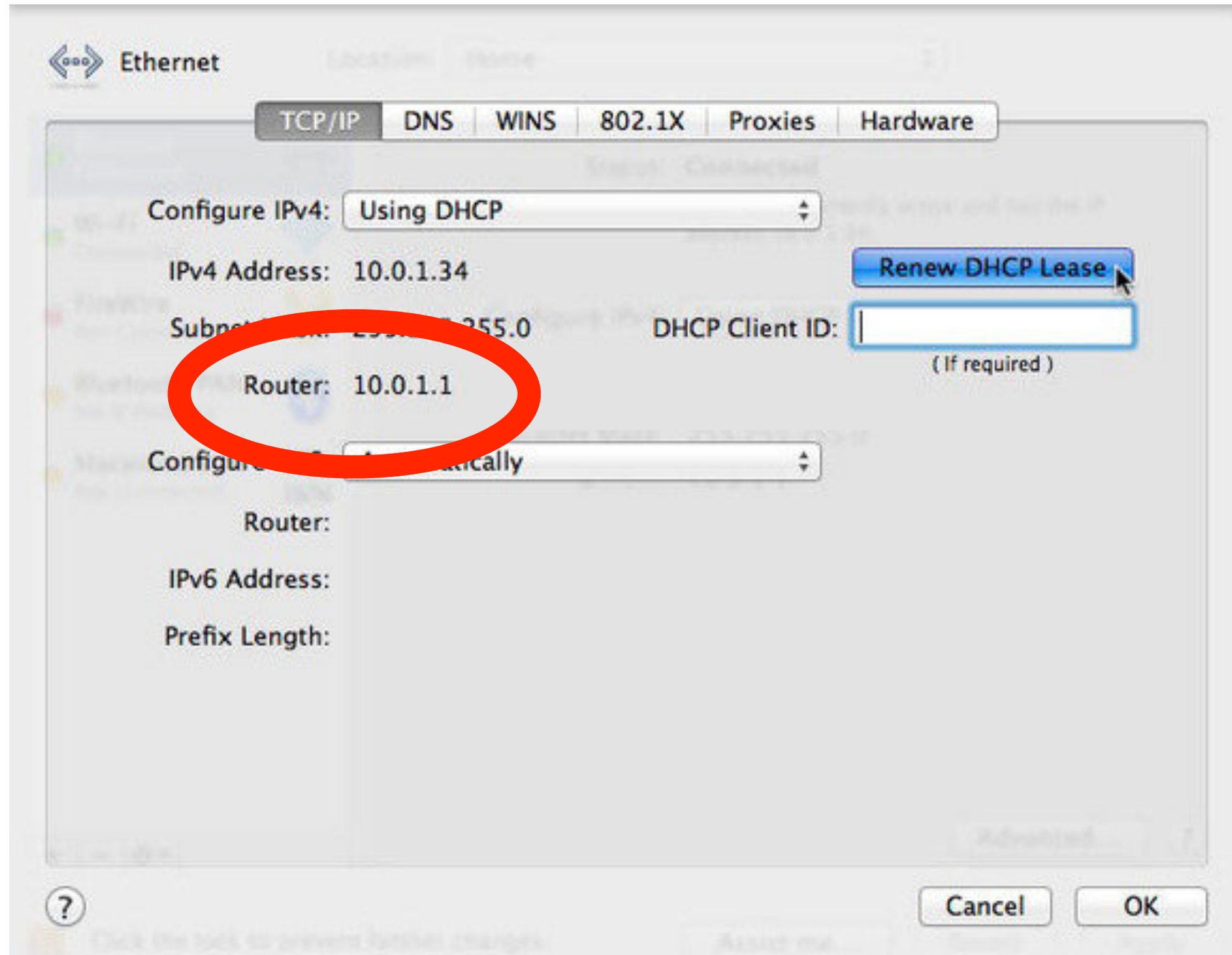




DNS







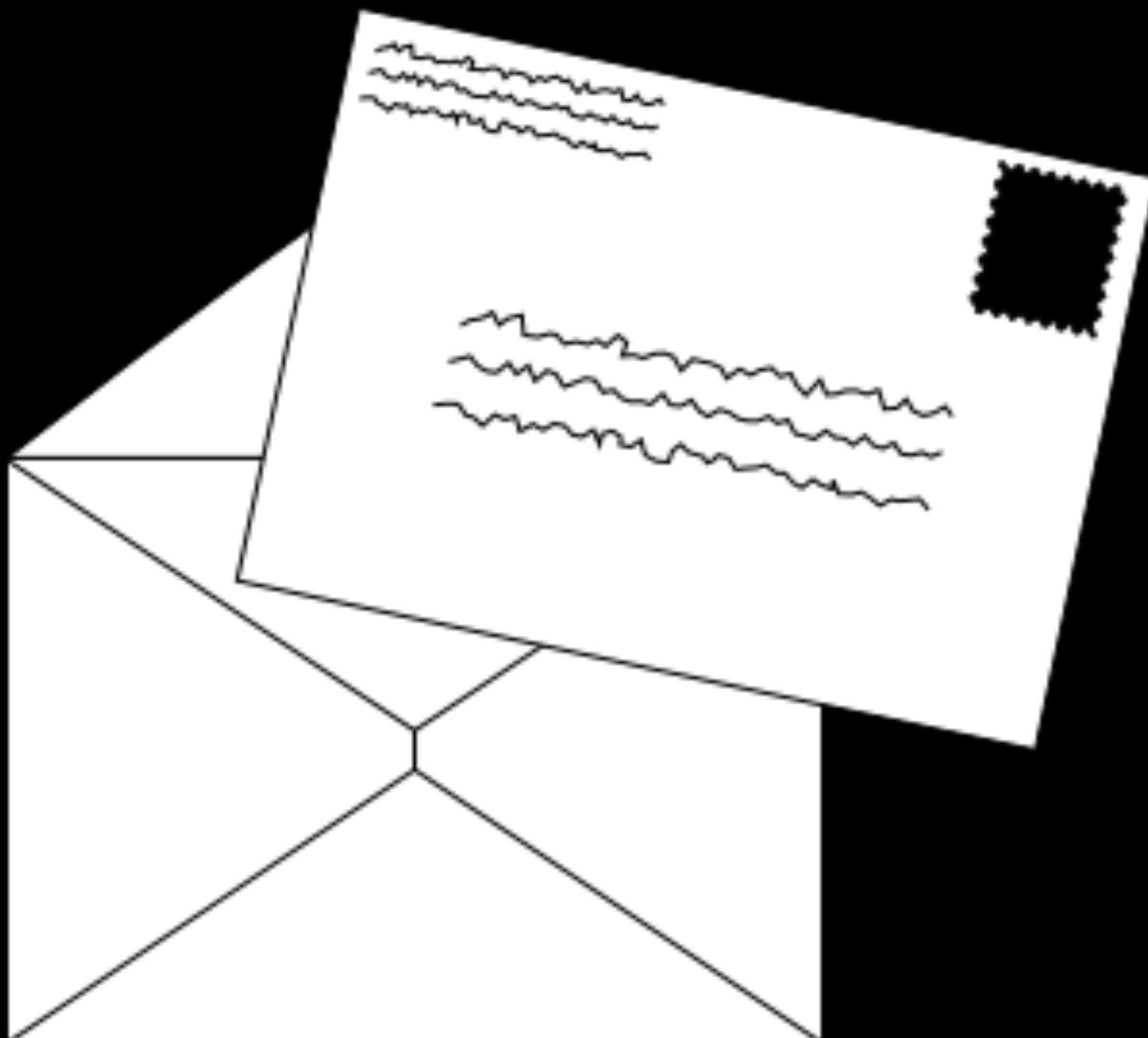






**HERE ARE ALL OF THE  
UNDERSEA CABLES  
THAT POWER THE INTERNET**





TCP

22 SSH

53 DNS

80 HTTP

443 HTTPS

587 SMTP

...

TCP/IP







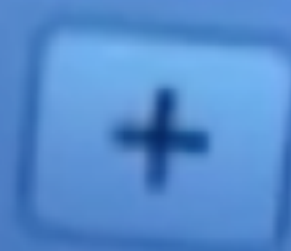
Global  
HD

```
> switchView = [[UISwitch alloc] initWithFrameRect:rect];
> [switchView setTag:997];
> [cell addSubview:switchView];
> [switchView release];
> }
>
> // recover switchView from the cell
> switchView = [cell viewWithTag:997];
> [switchView addTarget:self action:@selector(switchClicked):forControlEvents:UIControlEventTouchUpInside];
>
> // Set up the cell
> NSArray *crayon = [[section objectForKey:@"crayon"] objectAtIndex:0];
> [cell setText:[objectAtIndex:0]];
>
> // extract the component
> float xx = - [acceleration x];
> float yy = - [acceleration y];
```

```
> switchView = [[UISwitch alloc] initWithFrameRect:rect];
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> [cell addSubview:switchView];
> [switchView release];
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> [cell setText:[objectAtIndex:0]];
>
> // extract the component
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> float
```



t View Go Window Help

   <http://275.3.6.28>

# Assignment 2

# Seminar

Recruiting Software Engineers

# Next Time

Web Design

# CS50 for MBAs

Internet Technologies