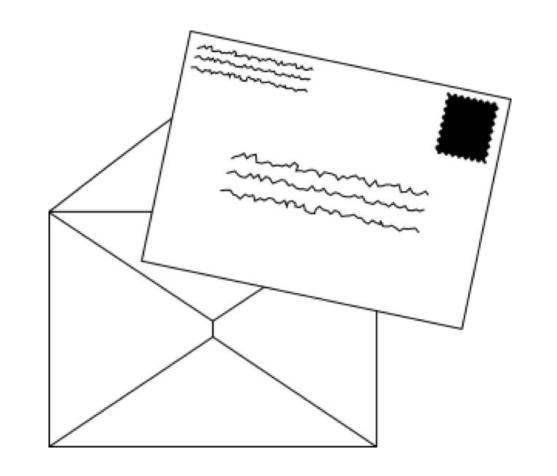
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## Internet Technologies, Cloud Computing

## Internet Technologies, Cloud Computing

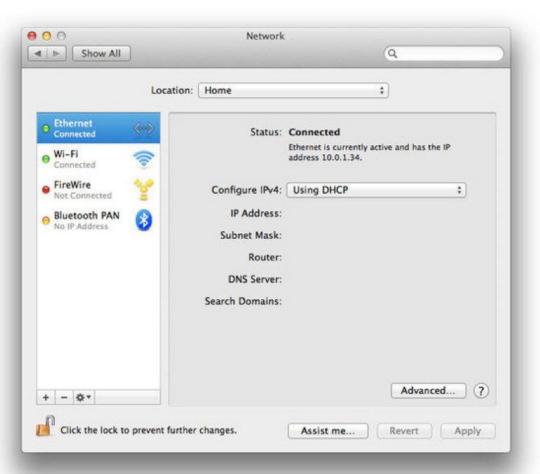


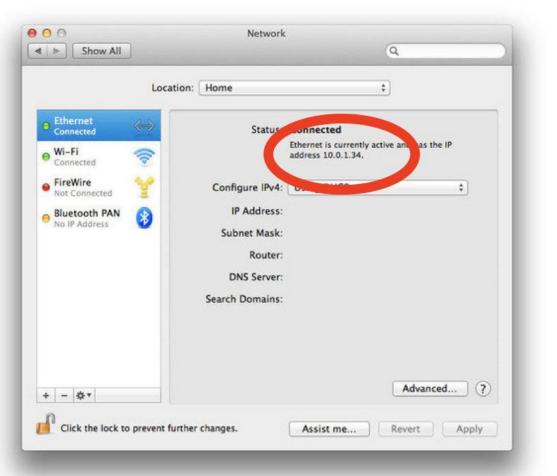
#### IP

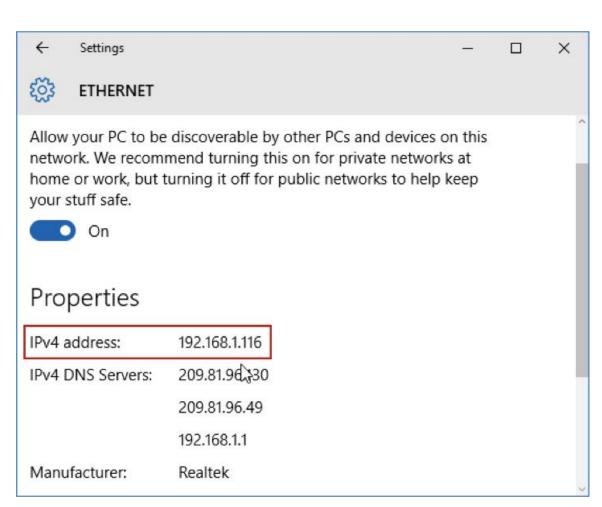
#### #.#.#.#

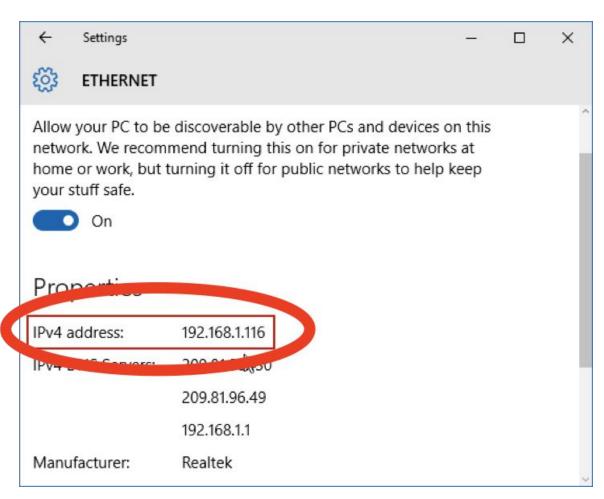
- 10.#.#.#
- 172.16.#.# 172.31.#.#
- 192.168.#.#
- ...

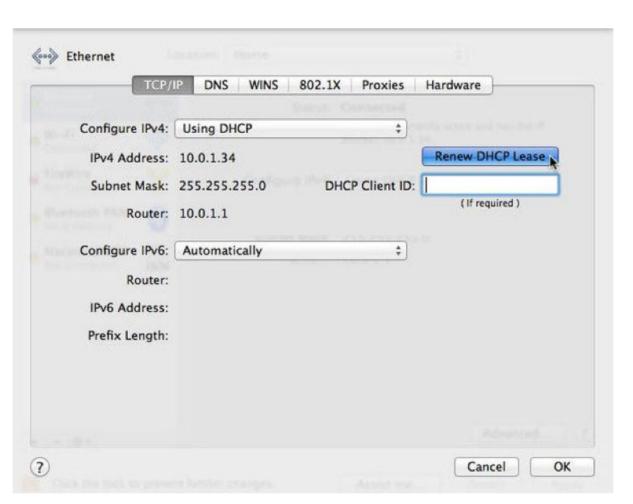
### **DHCP**



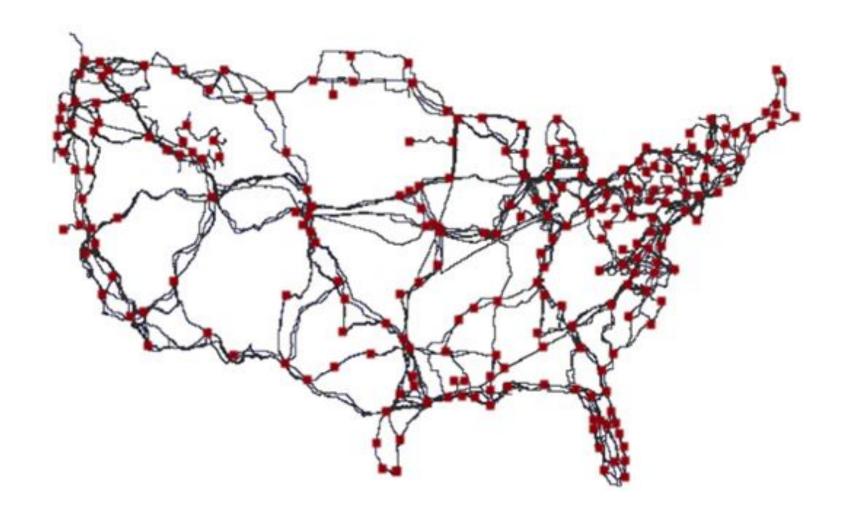








#### routers



### NAT

## TCP

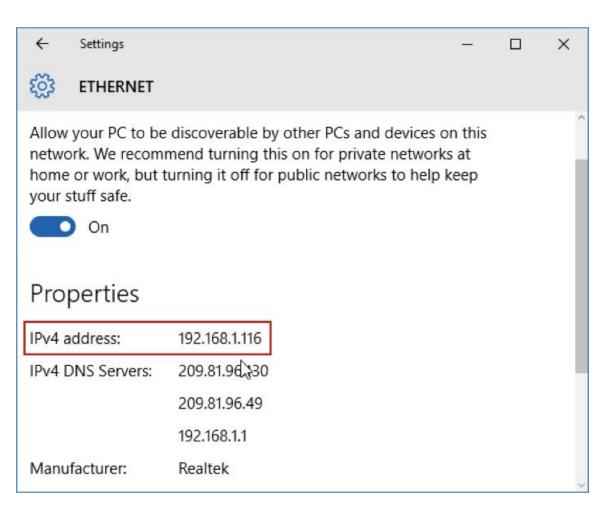
#### **Ports**

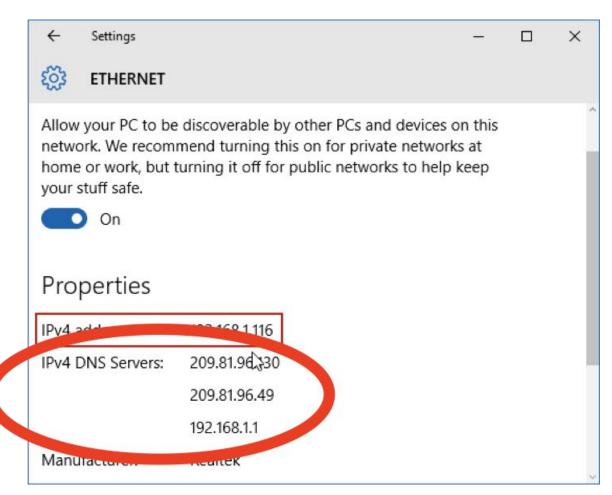
- 80, 443
- 143, 587
- ...





## DNS







# View Go Window Help







http://275.3.6.28



```
switchview = [[UISwitch alloc] initwiths
    [switchview setTag:997];
    [cell addSubview:switchview];
    [switchview release];
۸
٨
    // recover switchview from the cell
    switchview = [cell viewWithTag:997];
    [switchview addTarget:self action:@selec
    // Set up the cell
    NSArray *crayon + [[[section obejectAtIr
٨
    [cell setText:[objecgtAtIndex:0]];
    // extract the component
    float xx = - [acceleration x $lobal
    floa
```

```
// Set up the cell
> NSArray *crayon + [[[section obejectAtIr
```





Host: www.example.com

nose: www.example.co

GET / HTTP/1.1

Host: www.example.com

GET /index.html HTTP/1.1

• • •

HTTP/1.1 200 OK Content-Type: text/html GET / HTTP/1.1 Host: harvard.edu

• • •

Location:	https://www.harvard.edu/

HTTP/1.1 301 Moved Permanently

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

- 200 OK 301 Moved Permanently 302 Found
  - rouna Nat Ma
- 304 Not Modified
- 307 Temporary Redirect
- 401 Unauthorized 403 Forbidden
- 404 Not Found
- 418 I'm a Teapot
- 500 Internal Server Error 503 Service Unavailable
- . . .

GET / HTTP/1.1
Host: safetyschool.org

Host: www.google.com

GET /search?q=cats HTTP/1.1

## Internet Technologies, Cloud Computing

## on premise

vertical scaling





single point of failure

scalability

horizontal scaling

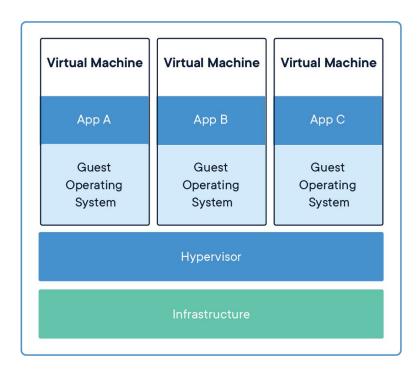


wikimedia.org

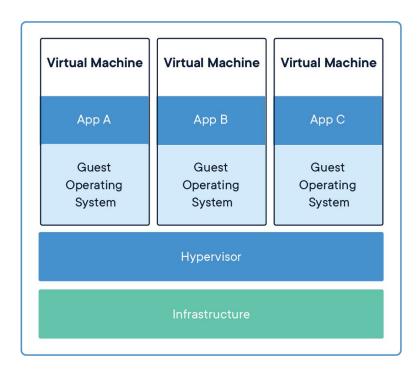
load balancing

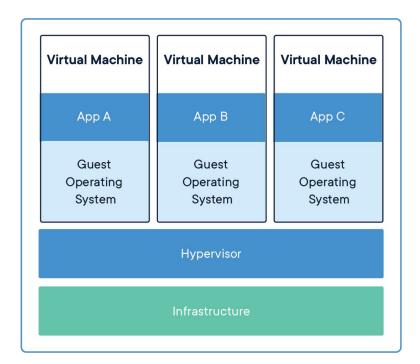
## cloud

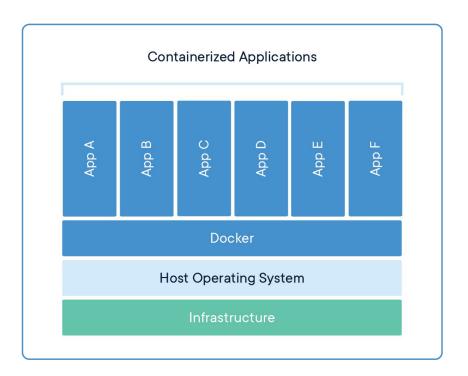
virtualization



containerization







- SAAS
- PAAS
- IAAS

## Seminars

# Assignment 4

## Office Hours

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