



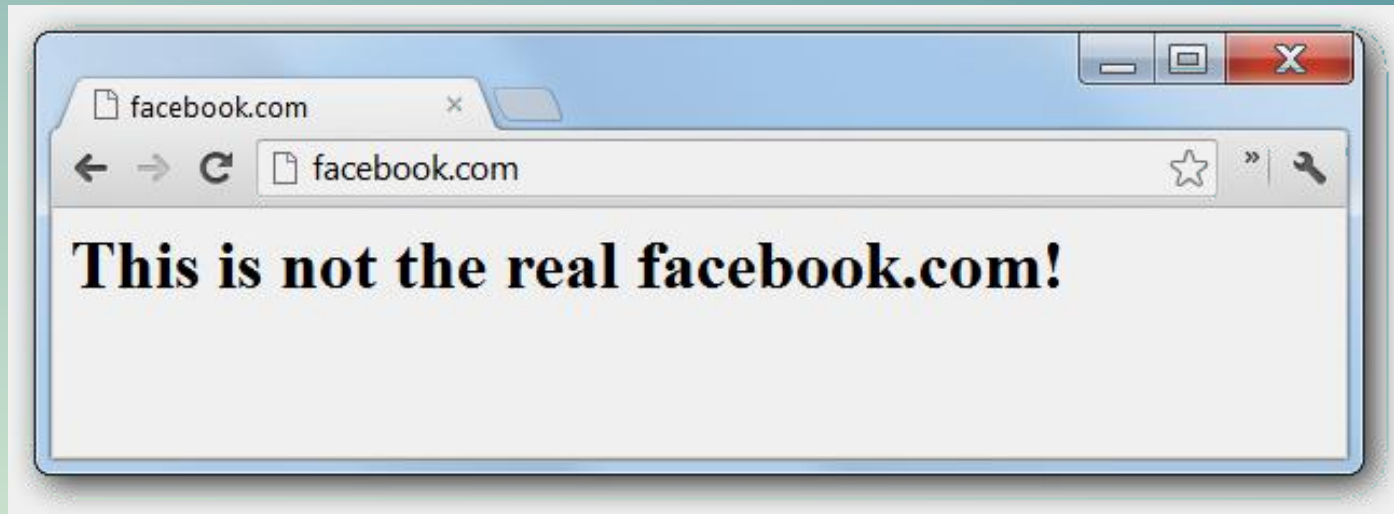
# Network Security

Class X  
lab 26





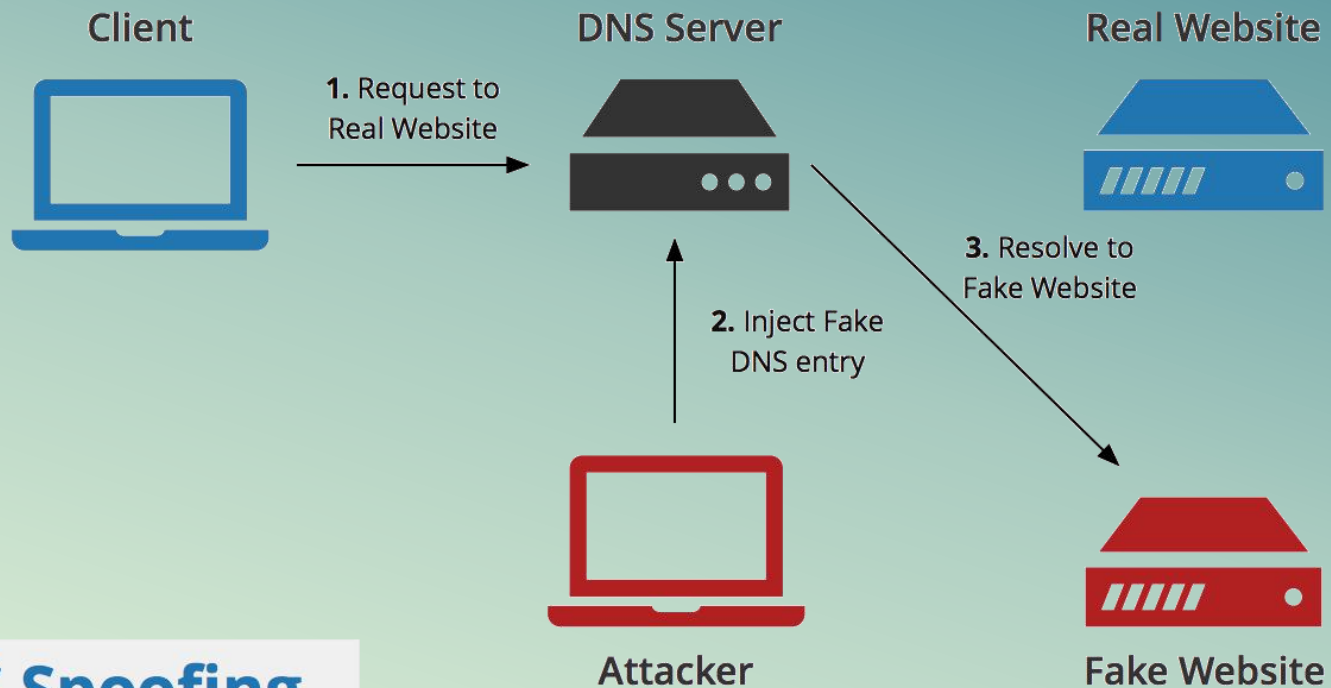
# DNS Poisoning



DNS Poisoning is a technique that tricks a DNS server into believing that it has received authentic information when, in reality, it has not



# DNS Spoofing

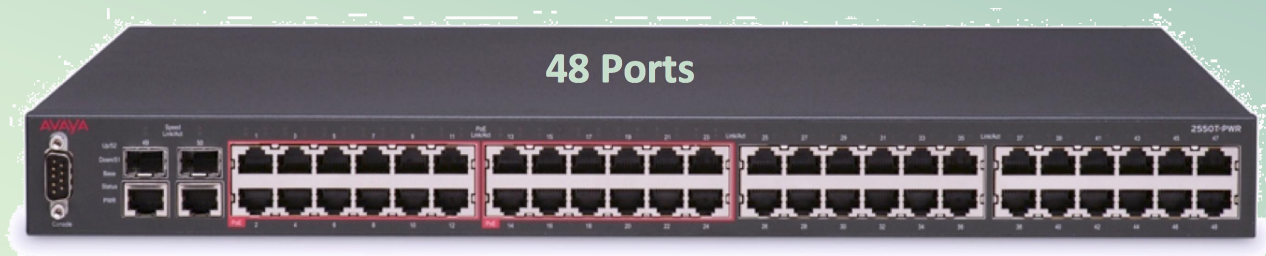


**DNS Spoofing**



# Defenses against DNS Poisoning

## Network switches

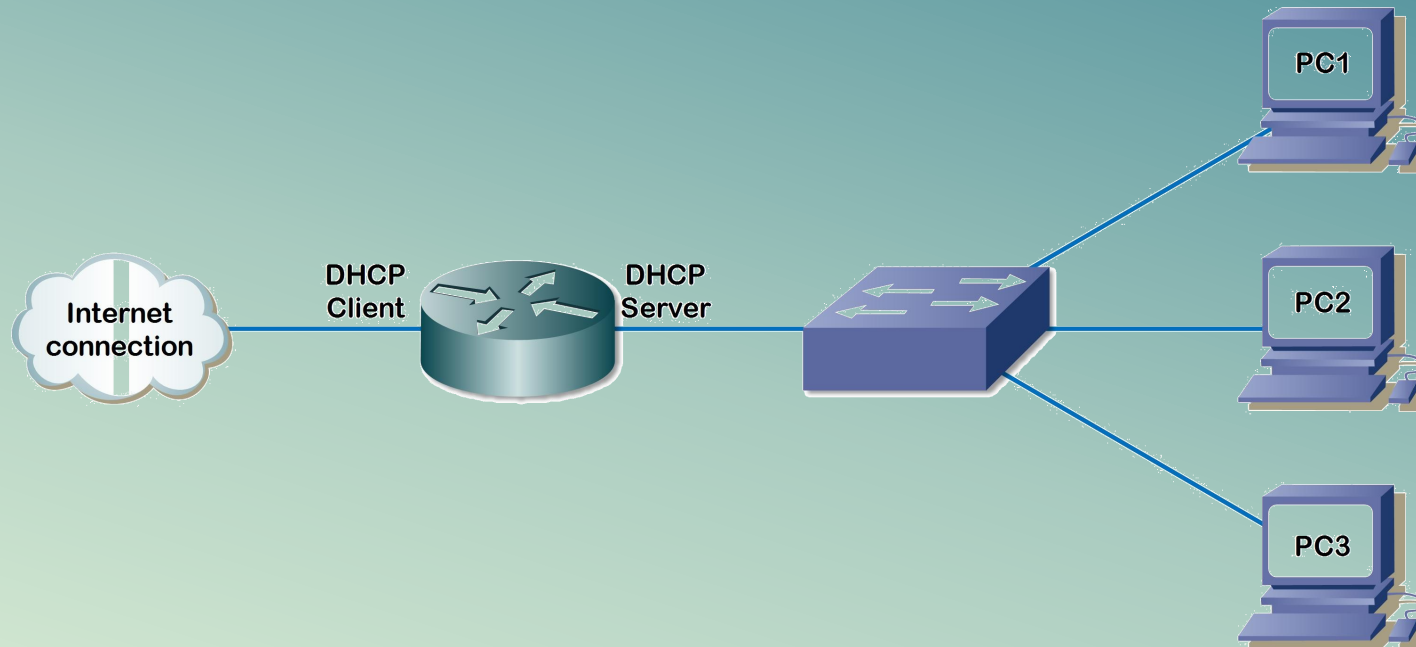


Use a hardware-switched network

This image is part of the Bioinformatics Web Development tutorial at [http://www.cellbiol.com/bioinformatics\\_web\\_development/](http://www.cellbiol.com/bioinformatics_web_development/)



# Defenses against DNS Poisoning

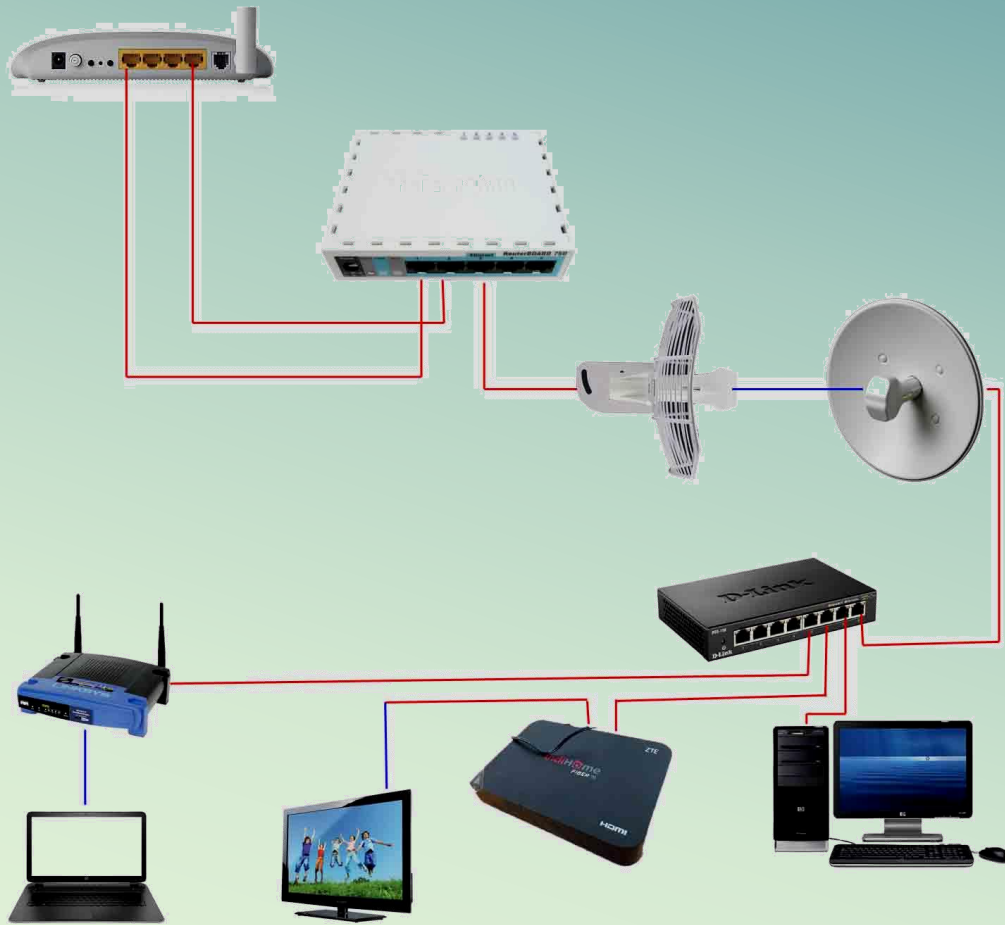


Implement IP DHCP Snooping on switches





# Defenses against DNS Poisoning



Be careful when  
deploying  
wireless access points



# Defenses against DNS Poisoning

Application	SSH
Transport	TLS/SSL
Network	IPsec
Physical	

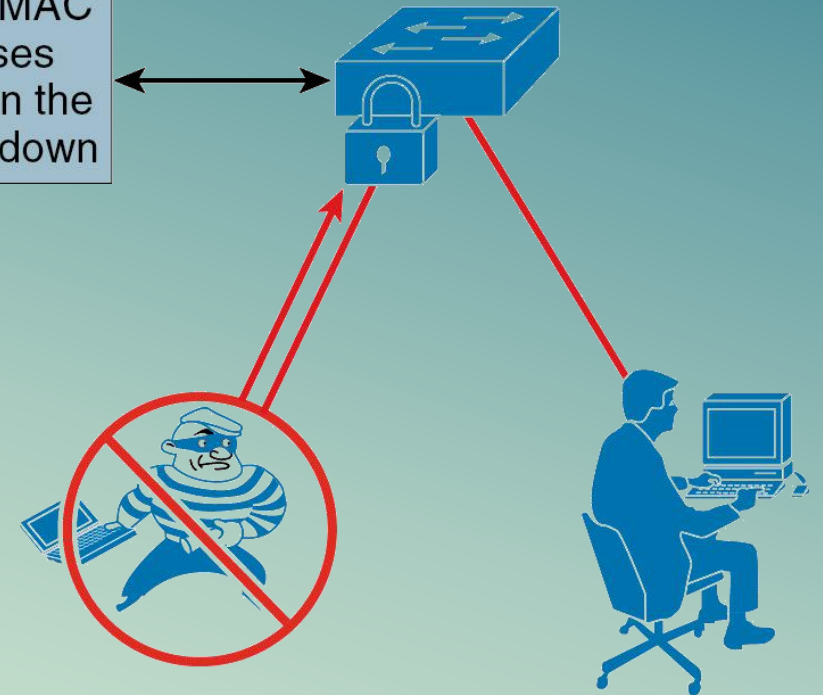
Encrypt your sensitive traffic



# Defenses against DNS Poisoning

specifiy MAC addresses to send and receive data on each port

Only two MAC addresses allowed on the port: Shutdown



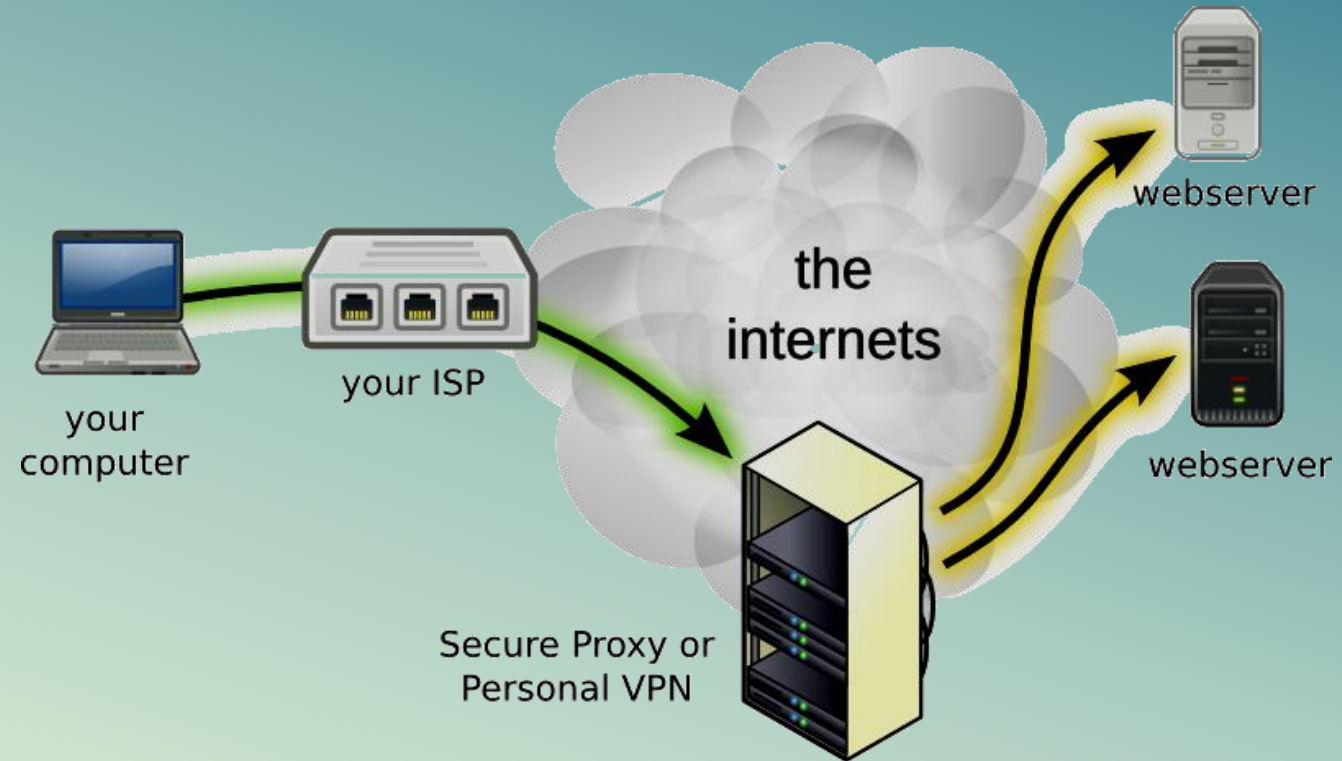
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# Defenses against DNS Poisoning

use VPN





# Defenses against DNS Poisoning

## HTTP VS HTTPS



use SSL certificate





# Thank You

