

Quality Forum : World Quality Day : 2010 Nov 11

TIPS FOR SECURE BROWSING

Anool J M : anool.m@gmail.com

www.lumetronics.in

A decorative graphic at the bottom of the slide features a horizontal band with a gradient from orange to grey. The band contains binary code (0s and 1s) in a light grey color. To the right of the band, there are several overlapping circles in shades of orange and grey, creating a modern, tech-oriented aesthetic.

Introduction

- **Tips for Safe Browsing ??**
- **At the Hardware Level**
- **At the Software Level**
- **Windows**
- **Browsers**
- **DNS**
- **Pitfall : E-Mail**
- **Pitfalls : Web**
- **Undercover**
- **Links**

Tips for Safe Browsing

Use someone else's computer !

You need multiple levels and layers of security to be safe , but its not Rocket Science, really.

You need to teach yourself a little bit about computers and Networking !

Hardware

USB Devices, Data Cards, to a lesser extent CD's - avoid these for receiving or sending data / files.



Hardware

Instead offer to send via email, online file delivery (YouSendit, WeTransfer, DropBox) or online storage (Google Docs, SkyDrive).

The screenshot shows the YouSendit website interface. The browser address bar displays <https://www.yousendit.com/?myaccount=true>. The page features a navigation menu with links for [Send](#), [Start Your Free Trial](#), [Subscribe](#), [My Account](#), [Applications](#), and [Support](#), along with a [Logout](#) button. A sidebar on the left contains links for [Send File](#), [Inbox](#), [Outbox](#), [Sent Items](#), and [Contacts](#). The main content area is a form for sending a file, including fields for **To:**, **Subject (optional)**, and **Enter message (optional)**. Below these is a **Select a file** section with a **Choose File** button and the text "No file chosen". There is also an **Add another file** section with a list of optional services and their prices:

Service	Price
<input type="checkbox"/> Premium Delivery [+]	\$8.99
<input type="checkbox"/> Password-Protected Secure Delivery [+]	\$3.99
<input type="checkbox"/> Certified Delivery with Tracking [+]	\$3.99
<input type="checkbox"/> Return Receipt [+]	\$3.99

At the bottom of the form is a green **SEND IT** button. Below the button, a disclaimer states: "By clicking on the 'Send It' button, you agree to YouSendIt's Terms of Service."

Hardware

Instead offer to send via email, online file delivery (YouSendit, WeTransfer, DropBox) or online storage (Google Docs, SkyDrive).

The screenshot shows the Google Docs web interface. The browser address bar displays <https://docs.google.com/?pli=1&authuser=0#all>. The page title is "Google docs". The main content area is titled "All items" and shows a list of documents. The left sidebar contains navigation options like "Create new", "Upload...", and "My folders".

Name	Sharing	Date
TODAY		
ClockTWO @ KickStarter	Wyojustin to 4 collaborators	12:03 am Wyojustin
YESTERDAY		
QF_WQD_2010_11_11.ppt	Not shared	Nov 7 me
QF_WQD_2010_11_11.odp	Not shared	Nov 7 me
QF WQD 2010-11-11	Not shared	Nov 7 me
EARLIER THIS MONTH		
QF WQD Talk	Not shared	Nov 6 me
ClockTWO Pitch	Wyojustin to 2 collaborators	Nov 5 Shawmew
101103-emdb.csv	Not shared	Nov 3 me
EARLIER THIS YEAR		
DSCN7048.JPG	WordClock: me to 1 collaborator	Oct 29 me
DSCN7047.JPG	WordClock: me to 1 collaborator	Oct 29 me
DSCN7046.JPG	WordClock: me to 1 collaborator	Oct 29 me
DSCN7045.JPG	WordClock: me to 1 collaborator	Oct 29 me
DSCN7044.JPG	WordClock: me to 1 collaborator	Oct 29 me
DSCN7043.JPG	WordClock: me to 1 collaborator	Oct 29 me
DSCN7028.JPG	WordClock: me to 1 collaborator	Oct 29 me
SharedCosts	Arduino: Wyojustin to 1 collaborator	Oct 29 me

Hardware

Online delivery is safe (usually) since a virus scan is included in the service - e.g. GMail, Yahoo, Yousendit

[Gmail](#) › [Help articles](#) › [Your Messages](#) › [Reading](#) › [About anti-virus scanning](#)



Need to make a phone call? [Learn how to call somebody](#) right from Gmail!

[Hide](#)

About anti-virus scanning

[Share](#) [Comment](#) [Print](#)

Gmail automatically scans every attachment when it's delivered to you, and again each time you open a message. Attachments you send are also scanned. Checking attachments for viruses protects our users and their information, and prevents the spread of viruses.

- If a virus is found in an attachment you've received, our system will attempt to clean the file, so you can still access the information it contains. If the virus can't be removed from the file, you won't be able to download it.
- If our system is unable to scan certain files, you'll see an error reading 'Oops... the virus scanner has a problem right now.' You'll have the option to try again later or to download at your own risk. Please note that if Gmail can't scan the contents of the file, we can't guarantee that it's safe to view.
- If an attachment you're trying to send is infected with a virus, Gmail will display an error message to tell you, but it won't clean the file. To send the message without that attachment, click the link in that error message that says 'Remove attachment and send.'
- If Gmail detects that you're trying to send an infected attachment, we suggest running your anti-virus software in case your hard drive is infected. If you don't have anti-virus software, you might consider purchasing/installing one of the popular applications so you can protect your computer and information from viruses. The free Google Pack comes with leading anti-virus and anti-spyware applications -- you can find out more at the [Google Pack homepage](#).

updated 10/11/2010

Software

You could switch to an alternative, secure OS for e.g. Linux.

Many versions of Linux are available - one popular version is Ubuntu



Software

Carry your own OS and data on HDD - e.g. Slax
(Linux OS for portable and removable drives)



Windows

Ensure OS is updated (Automatic Updates) - Patch Tuesday.

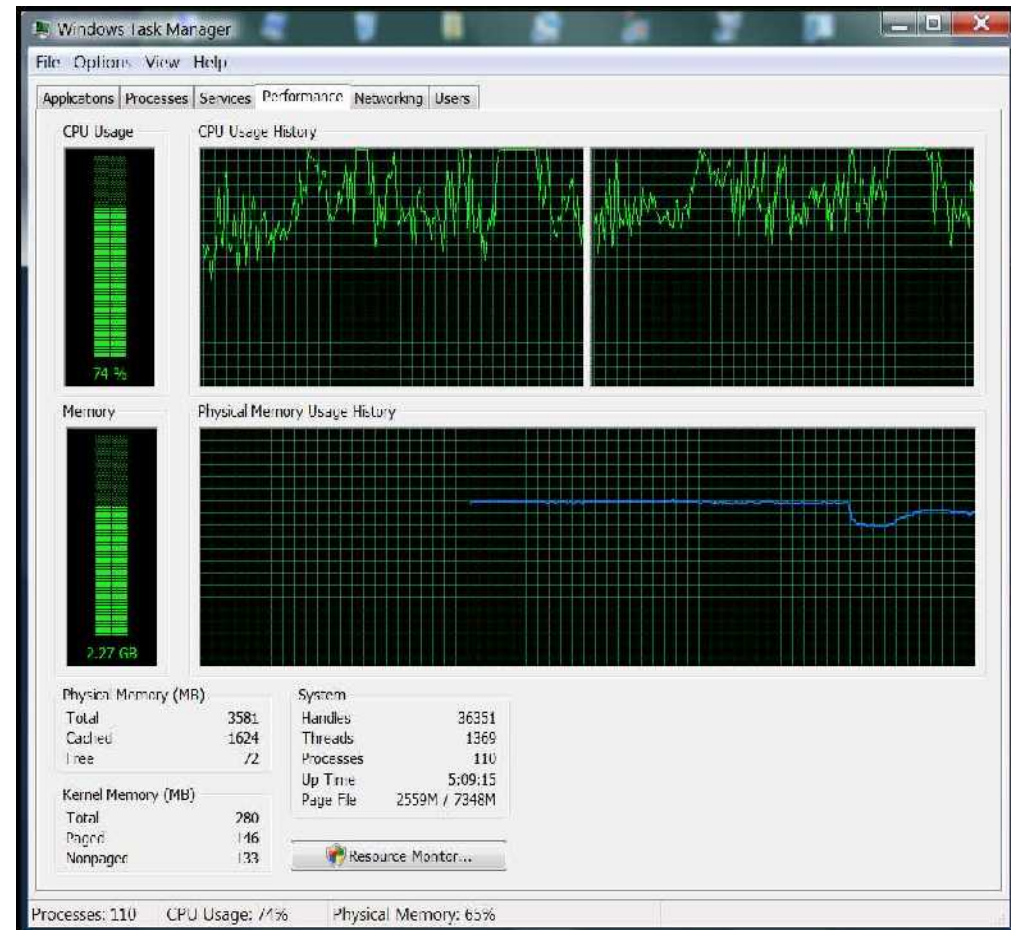
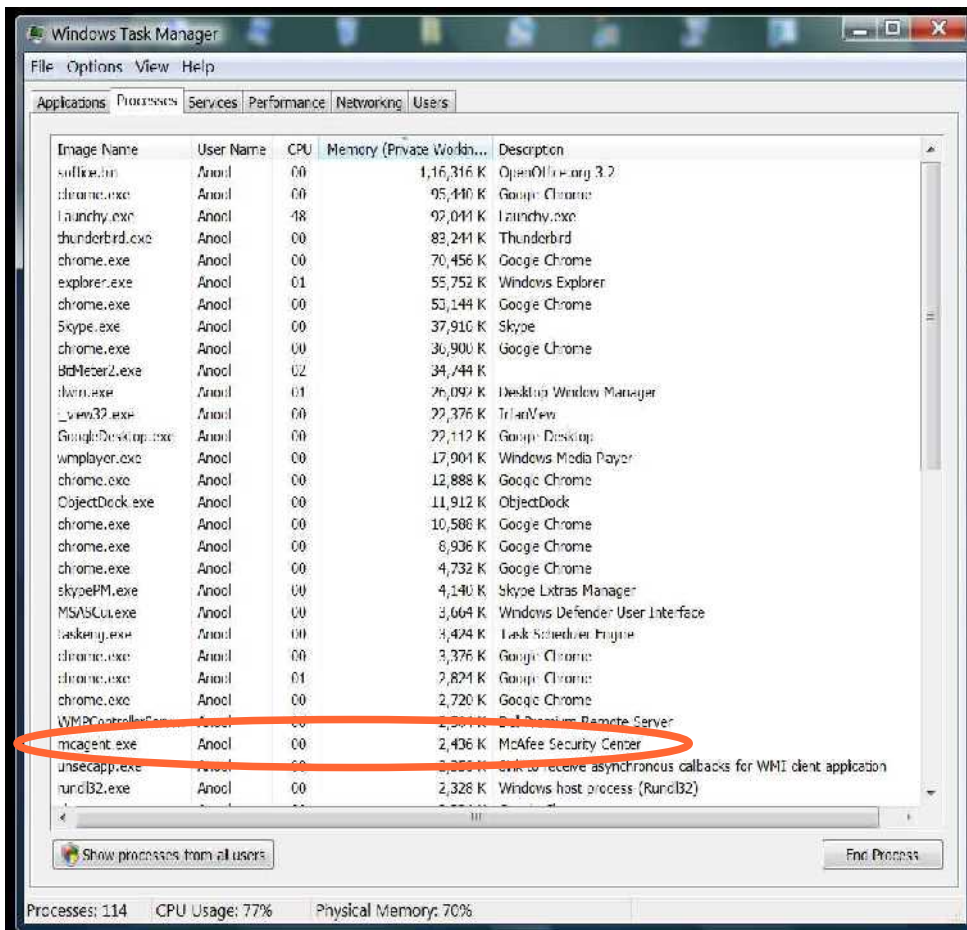


Enable Firewall, Anti Virus and AntiSpyware

- Windows FW, Zone Alarm
- McAfee, Avast, AVG
- Spybot S&D, Ad-Aware etc

Windows

AV SW must ideally create a low memory load.



Windows

Use only one AV SW, but its possible to install two Antispyware SW.

MS offers a freebie - MS Security Essentials

www.microsoft.com/security_essentials/

Microsoft Security Essentials

United States | Change | All Microsoft Sites

bing | Web

"Proven antivirus protection for free? That's what I need."

Get high-quality, hassle-free antivirus protection for your home PC now.

[Help and Support](#)
Help and how-to guides

[Installation Video](#)
See just how easy it is

[Download Now](#)

Microsoft Security Essentials is now available for your small business!

[About](#) | [Resources](#) | [Support](#) | [Partners](#)

Key Features

- ✓ Comprehensive malware protection
- ✓ Simple, free download*
- ✓ Automatic updates
- ✓ Easy to use

About Microsoft Security Essentials

Microsoft Security Essentials provides real-time protection for your home PC that guards against viruses, spyware, and other malicious software.

Microsoft Security Essentials is a free* download from Microsoft that is simple to install, easy to use, and always kept up to date so you can be assured your PC is protected by the latest technology. It's easy to tell if your PC is secure — when you're green, you're good. It's that simple.

Microsoft Security Essentials runs quietly and efficiently in the background so that you are free to use your Windows-based PC the way you want—without interruptions or long computer wait times.

Works with Windows Vista™

Browsers

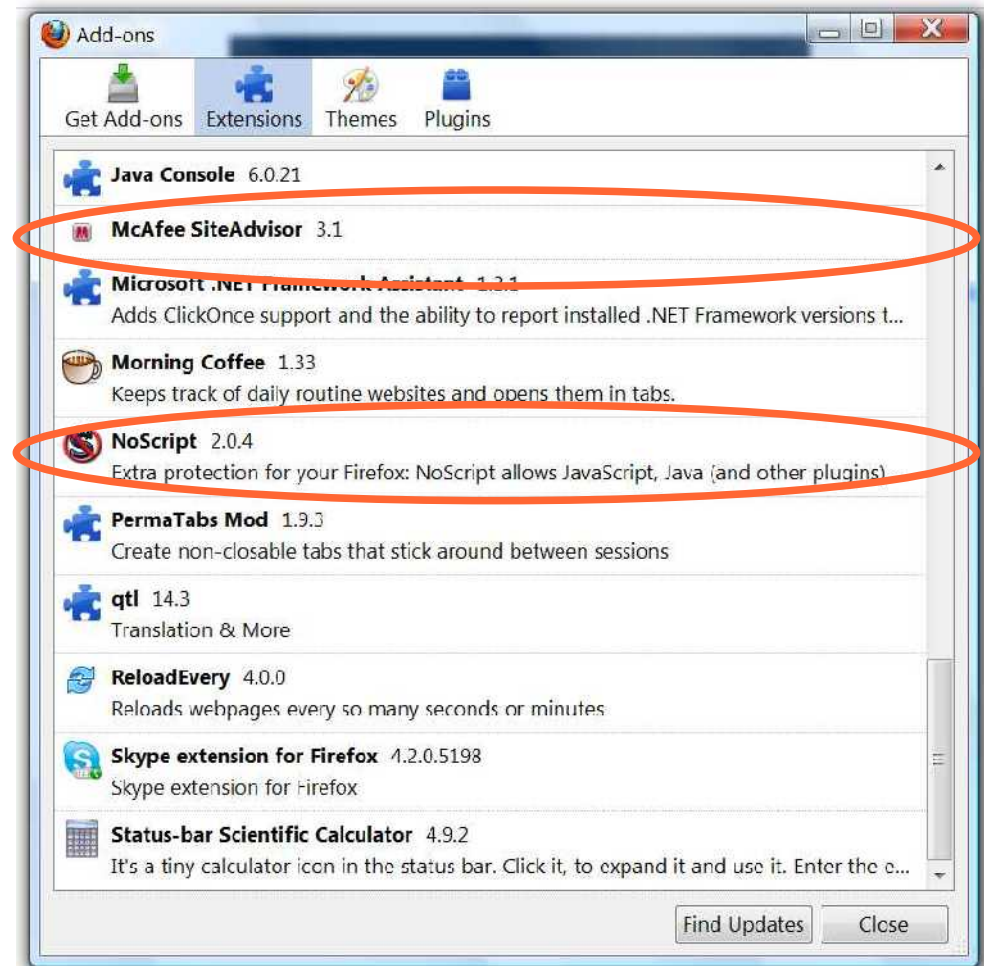
Upgrade to the most current version

Use alternatives instead of IE - Chrome, Firefox, Opera

Browsers

Install Security add-ons and extensions

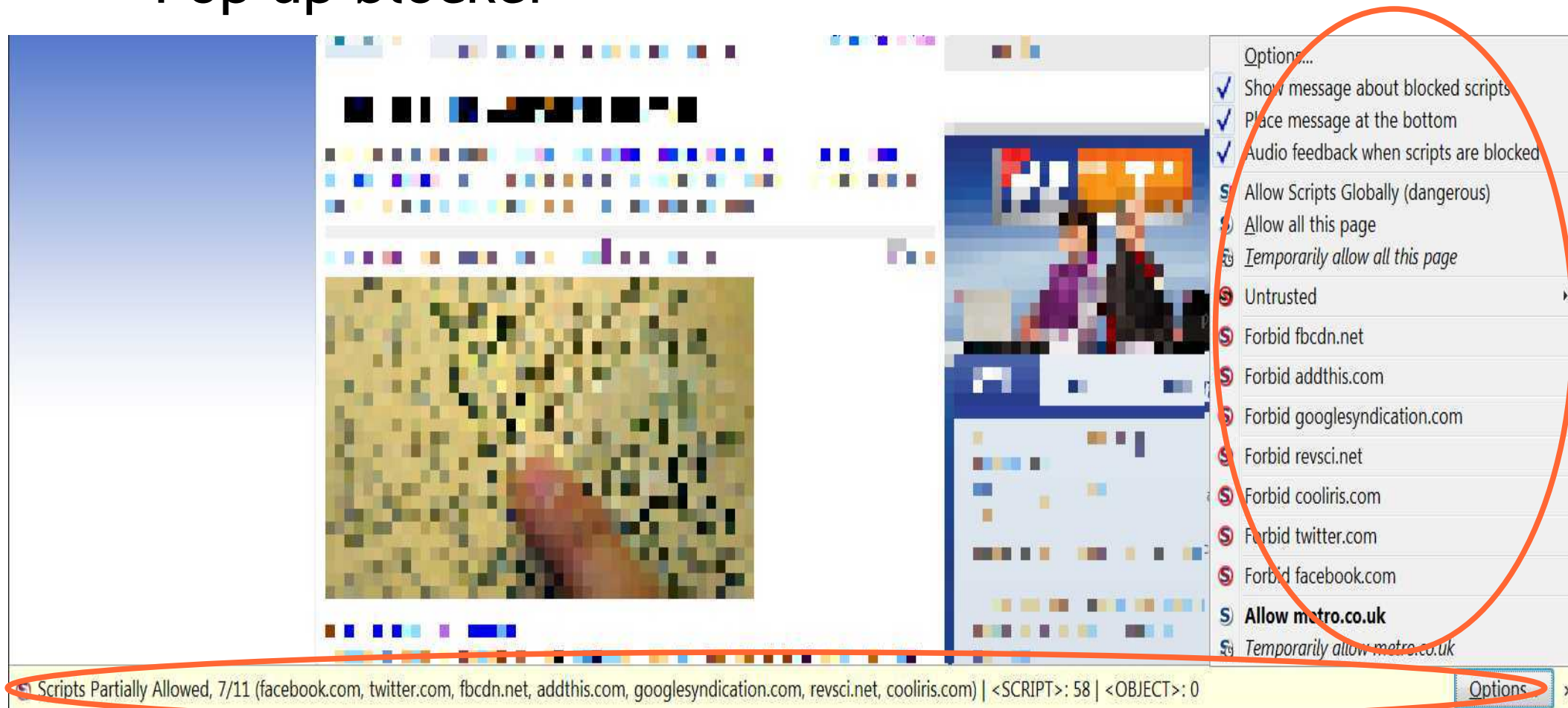
- Script Block, Ad-Block, Site Advisor, No-Script, Pop up blocker



Browsers

Install Security add-ons and extensions

- Script Block, Ad-Block, Site Advisor, No-Script, Pop up blocker



DNS

DNS = Domain Name System

- the process of assigning a Name (hostname) to an address (IP Number)
- acts like a translation service

e.g. `http://www.google.com` = 209.85.135.99

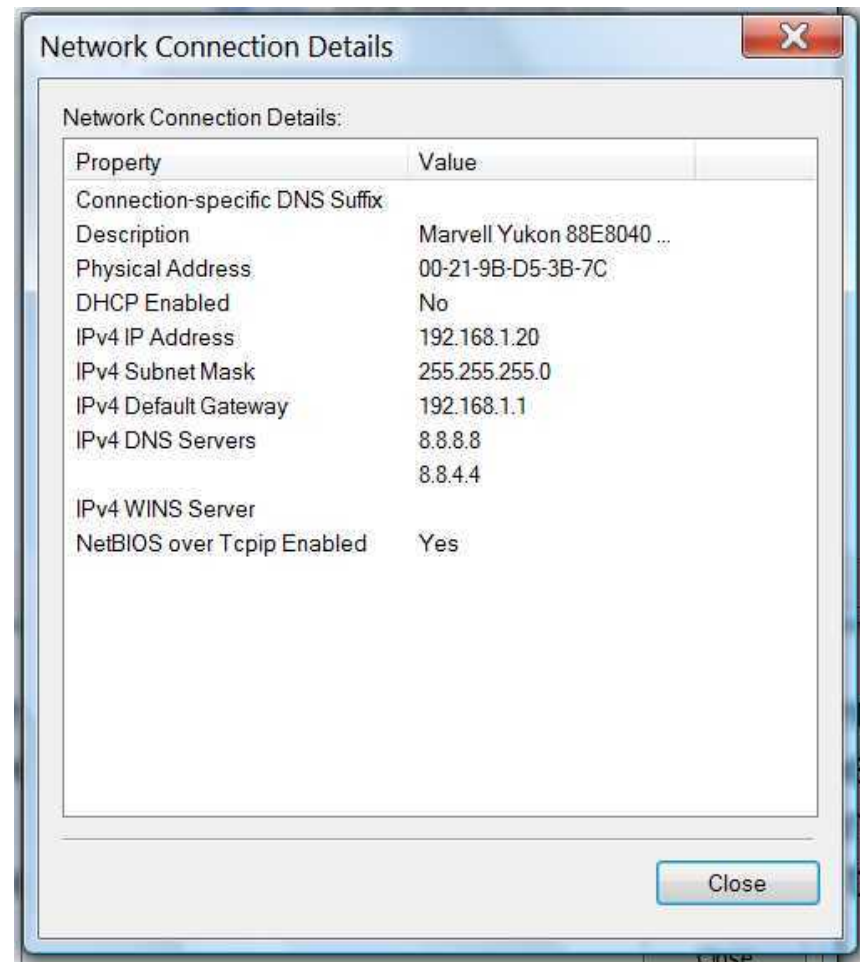


DNS

Domain Name Servers are located on Servers. A Client (Your computer) needs to know at least the address of one DNS server, so that it can start translating the names you type in the browser in to the corresponding IP address by looking up on the DNS.

DNS

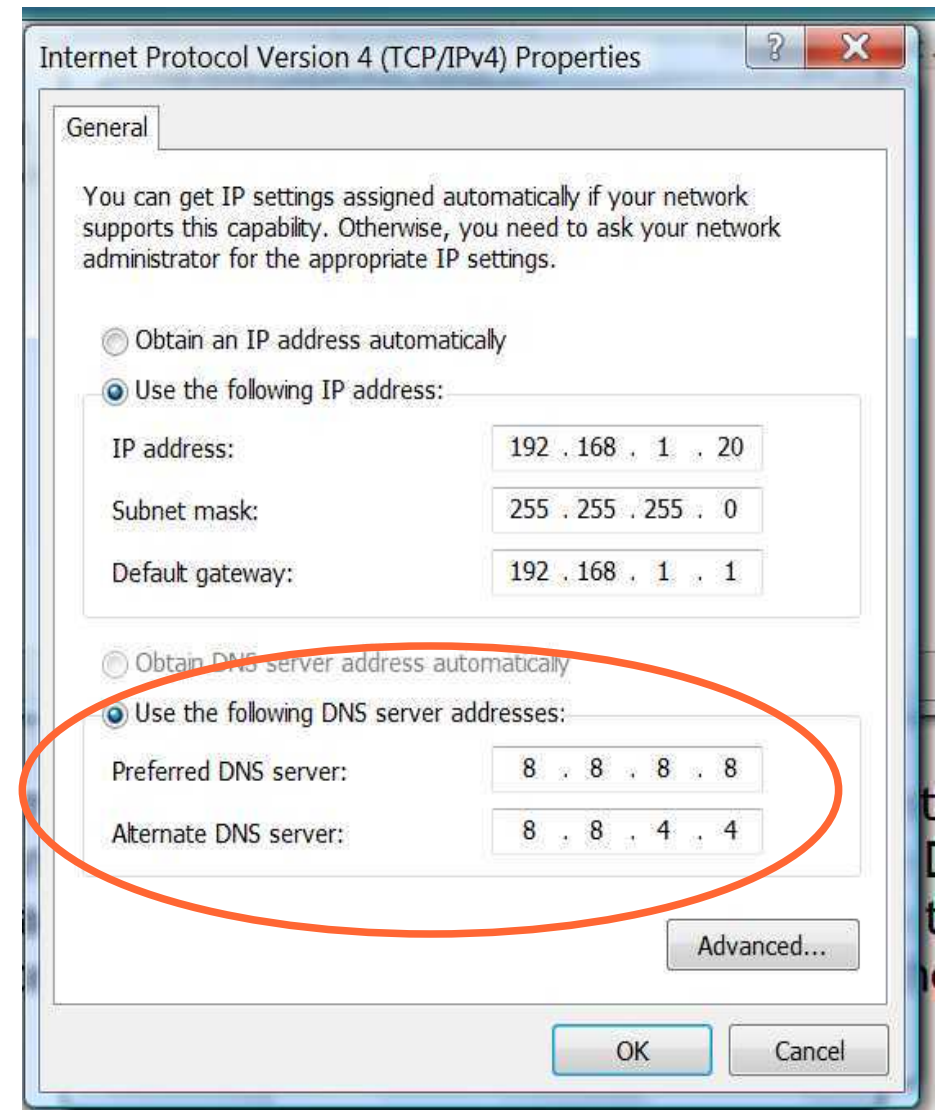
Your ISP gives you the IP address of their own DNS. Using a more secure DNS server provides an added layer of security



DNS

Google DNS : 8.8.8.8 and 8.8.4.4

- no setup required



DNS

OpenDNS : 208.67.222.222 : 208.67.220.220

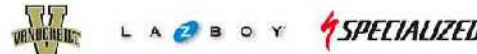
- content filtering, phishing protection etc
- requires registration (free) and some setup



Businesses: Make the switch to **OpenDNS Enterprise** for your web control and security needs. Malware and botnet protection, block page bypass, and more make switching an easy decision. [Learn more.](#)

Used by millions around the world

Every day the world's most trusted brands rely on OpenDNS to make their networks more secure and more reliable.



We're the leading provider of Internet navigation and security

- Ultra-reliable, globally-distributed network
- Industry-leading Web content filtering
- Easy to use for families, schools, and businesses of all sizes

[Read more](#) or [Sign up now](#)

OpenDNS Blog



Five Questions with an OpenDNS User: Francisco Aparecido da Silva

by Laura Oppenheimer (Nov 3, 2010)

In today's Five Questions post, Francisco Aparecido da Silva tells us about the tech scene in Open and why he loves using OpenDNS with his students.

Press & News

- Nov 04, 2010: OpenDNS Announces October 2010 Phishing Trends Findings
- Nov 01, 2010: Introducing OpenDNS for Managed Service Providers
- Oct 27, 2010: McAfee, Besic, Besic, Besic, Besic: OpenDNS for Enhanced Internet Security

DNS

OpenDNS : 208.67.222.222 : 208.67.220.220

- content filtering, phishing protection etc
- requires registration (free) and some setup

Settings for: 210.211.138.32/32 (Broadband) Add/Manage Networks

Web Content Filtering

Choose your filtering level:

- High: Protects against all adult-related sites, illegal activity, social networking sites, video sharing sites, and general time-wasters. 26 categories in this group - [View](#) - [Customize](#)
- Moderate: Protects against all adult-related sites and illegal activity. 13 categories in this group - [View](#) - [Customize](#)
- Low: Protects against pornography. 4 categories in this group - [View](#) - [Customize](#)
- None: Nothing blocked.
- Custom: Choose the categories you want to block.

<input type="checkbox"/> Academic fraud	<input checked="" type="checkbox"/> Adult Themes	<input checked="" type="checkbox"/> Adware
<input checked="" type="checkbox"/> Alcohol	<input checked="" type="checkbox"/> Auctions	<input type="checkbox"/> Automotive
<input type="checkbox"/> Blogs	<input type="checkbox"/> Business Services	<input type="checkbox"/> Chat
<input type="checkbox"/> Classifieds	<input checked="" type="checkbox"/> Dating	<input checked="" type="checkbox"/> Drugs
<input type="checkbox"/> Ecommerce/Shopping	<input type="checkbox"/> Educational institutions	<input type="checkbox"/> File storage
<input type="checkbox"/> Financial institutions	<input type="checkbox"/> Forums/Message boards	<input checked="" type="checkbox"/> Gambling
<input checked="" type="checkbox"/> Games	<input type="checkbox"/> Government	<input checked="" type="checkbox"/> Hate/Discrimination
<input type="checkbox"/> Health	<input type="checkbox"/> Humor	<input type="checkbox"/> Instant messaging
<input type="checkbox"/> Jobs/Employment	<input checked="" type="checkbox"/> Lingerie/Bikini	<input type="checkbox"/> Movies
<input type="checkbox"/> Music	<input type="checkbox"/> News/Media	<input type="checkbox"/> Non-profits
<input checked="" type="checkbox"/> Nudity	<input type="checkbox"/> P2P/File sharing	<input checked="" type="checkbox"/> Parked Domains
<input type="checkbox"/> Photo sharing	<input type="checkbox"/> Podcasts	<input type="checkbox"/> Politics
<input checked="" type="checkbox"/> Pornography	<input type="checkbox"/> Portals	<input checked="" type="checkbox"/> Proxy/Anonymizer
<input checked="" type="checkbox"/> Radio	<input type="checkbox"/> Religious	<input type="checkbox"/> Research/Reference
<input type="checkbox"/> Search engines	<input checked="" type="checkbox"/> Sexuality	<input type="checkbox"/> Social networking
<input type="checkbox"/> Software/Technology	<input type="checkbox"/> Sports	<input checked="" type="checkbox"/> Tasteless
<input type="checkbox"/> Television	<input type="checkbox"/> Tobacco	<input type="checkbox"/> Travel
<input type="checkbox"/> Video sharing	<input type="checkbox"/> Visual search engines	<input checked="" type="checkbox"/> Weapons
<input type="checkbox"/> Webmail		

Looking for security categories?

Pitfalls : Web

When in doubt, don't click blindly. Learn to read Links

classic email example - text and link are different :

<http://www.citibank.co.in>

Beware of fraud pop up windows.

- You get a warning informing your PC is infected.
- It says "Please click here to get a FREE virus check"
- (and the fine print is "thank you for clicking and allowing us to infect your PC")

Pitfalls : E-Mail

Avoid downloading message body in Email.

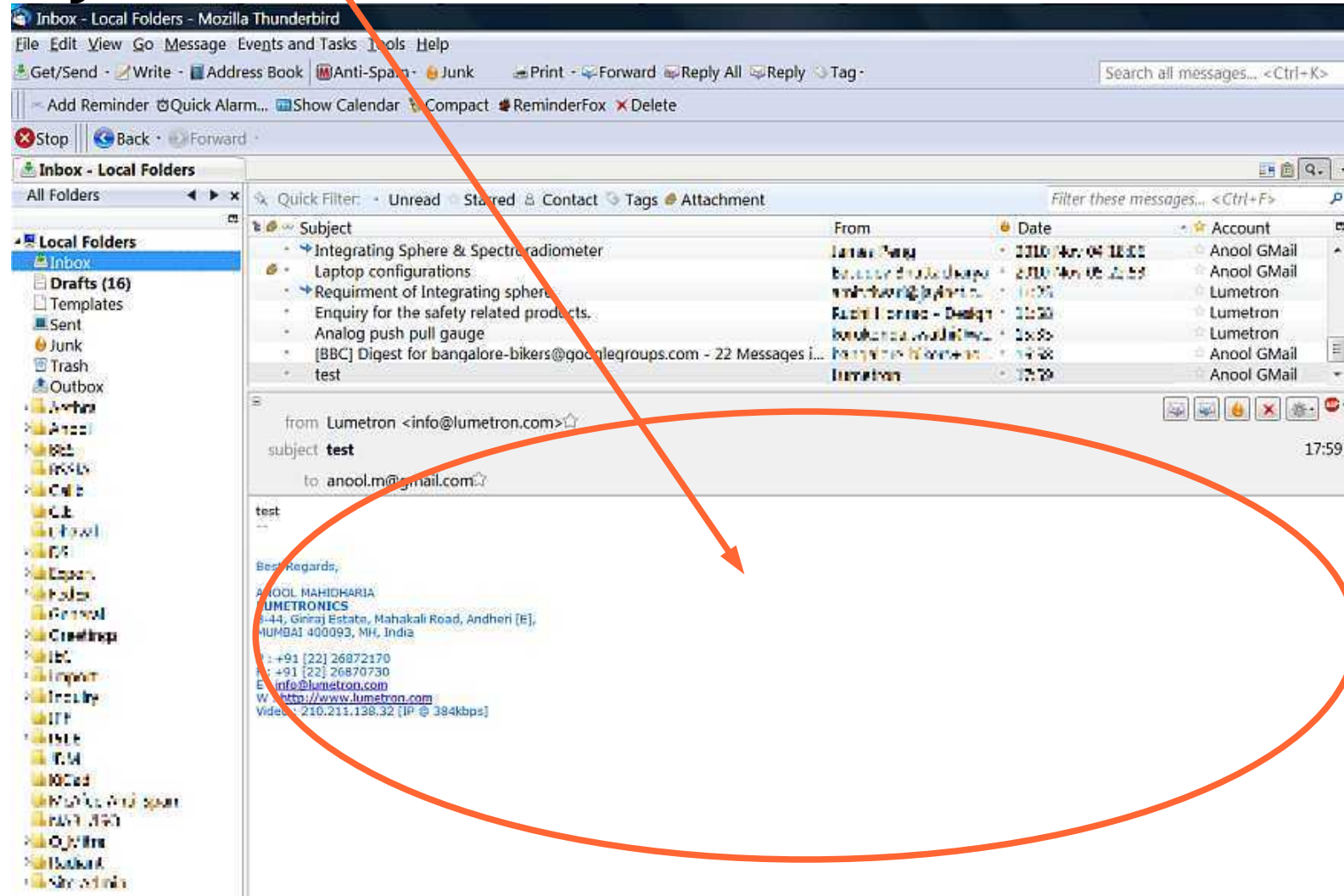
- Download headers only - most mail readers support this.
- Delete unwanted headers,
- and download message bodies of only the required mails.

Tip : Scripts can be embedded inside images too - so just viewing a message body can sometimes cause an infection.



Pitfalls : E-Mail

Else, switch off Preview mode, download mails, delete spam/junk.



Undercover

When browsing from another computer (public place), use the Private Browsing (FF), Incognito Mode (Chrome), InPrivate Browsing (IE) modes.

Ensure to delete History, Stored Passwords, Cookies, Cache etc. if the above modes were not used.

Use Anonymous Surfing, e.g.

<http://anonymouse.org/> or similar

You can completely hide your tracks by using a more complex anonymizer like TOR (the Onion Ring)

Dynamic/Static IP, MAC Address-media access control

Social Networking

Facebook, Twitter, Orkut, MySpace, LinkedIn, Buzz, DailyMile, ??

Make sure to read all Security related Help available on each of these sites.

Enable Security to a level suitable to your level of paranoia

Social Networking

The screenshot shows the Facebook interface for user Anool Mahidharia. The top navigation bar includes the Facebook logo, a search bar, and links for Home, Profile, and Account. The main content area is titled "Choose Your Privacy Settings" and is divided into sections for "Connecting on Facebook" and "Sharing on Facebook". The "Sharing on Facebook" section is expanded to show a table of privacy settings for various items, with "Custom" selected in the left-hand menu. The table has columns for "Everyone", "Friends of Friends", "Friends Only", and "Other". A "Customize settings" link is at the bottom left, and a confirmation message "This is your current setting." is at the bottom right. Below the main content, there are three additional sections: "Applications and Websites", "Block Lists", and "Controlling How You Share".

Choose Your Privacy Settings

Connecting on Facebook
Control basic information your friends will use to find you on Facebook. [View Settings](#)

Sharing on Facebook
These settings control who can see what you share.

	Everyone	Friends of Friends	Friends Only	Other
Your status, photos, and posts		•		
Bio and favorite quotations	•			
Family and relationships			•	
Photos and videos you're tagged in			•	
Religious and political views			•	
Birthday			•	
Permission to comment on your posts			•	
Places you check in to [?]			•	
Contact information				•

[Customize settings](#) ✔ This is your current setting.

Applications and Websites
Edit your settings for using applications, games and websites.

Block Lists
Edit your lists of blocked people and applications.

Controlling How You Share
Learn more about your privacy on Facebook.

Social Networking

Choose Your Privacy Settings ▶ Customize settings

[◀ Back to Privacy](#)


[Preview My Profile](#)

Customize who can see and comment on things you share, things on your Wall and things you're tagged in.

Things I share

Posts by me


Default setting for posts, including status updates and photos

 Friends of Friends ▼

Family

 Friends Only ▼

Relationships

 Friends Only ▼


Interested in and looking for

 Friends Only ▼

Bio and favorite quotations

 Everyone ▼


Website

 Everyone ▼

Religious and political views

 Friends Only ▼

Birthday

 Friends Only ▼

Places I check in to

 Friends Only ▼

Include me in "People Here Now" after I check in

Visible to friends and people checked in nearby (See an example)

Enable

Edit album privacy for existing photos.


Things others share

Photos and videos I'm tagged in

 Friends Only ▼

Can comment on posts

Includes status updates, friends' Wall posts, and photos

 Friends Only ▼

Links

www.yousendit.com

www.ubuntu.com

www.slax.com

www.zonealarm.com

www.avast.com

www.free.avg.comwww.microsoft.com/security_essentials/

www.safer-networking.org/

www.lavasoft.com/products/ad_aware_free.php

www.opendns.com/

<http://anonymouse.org/anonwww.html>

www.torproject.org/

www.lmgtfy.com

Links - Google

- Igoogle : Personalized Browser
- Alerts : Let the News reach you.
- Analytics : Monitor website statistics
- Blog : Online diary
- Books : Search/preview books
- Buzz : Social Networking
- Calendar : Event Planner/Reminder
- Chrome : Browser
- Desktop : Search
- Docs : Online Docs - Text, Spreadsheet, Presentation, Forms, online storage, sharing
- DNS : Domain Name system servers
- Earth : 3d imagery, flybys, exploration, SKY
- Gmail : Email

Thank You !

- Download Link : <http://goo.gl/9KHgH>
- PW to Open : qfwqd20101111
- QF_WQD_2010_11_11-share.pdf
- <https://docs.google.com/fileview?id=0B6WZ7PvuRoXHNTFmZTlhZmItOWM5NS00YT FjLWI2MTctMWY2NmQxZDhhMzY5&hl=en&authkey=CKWdk7gK>