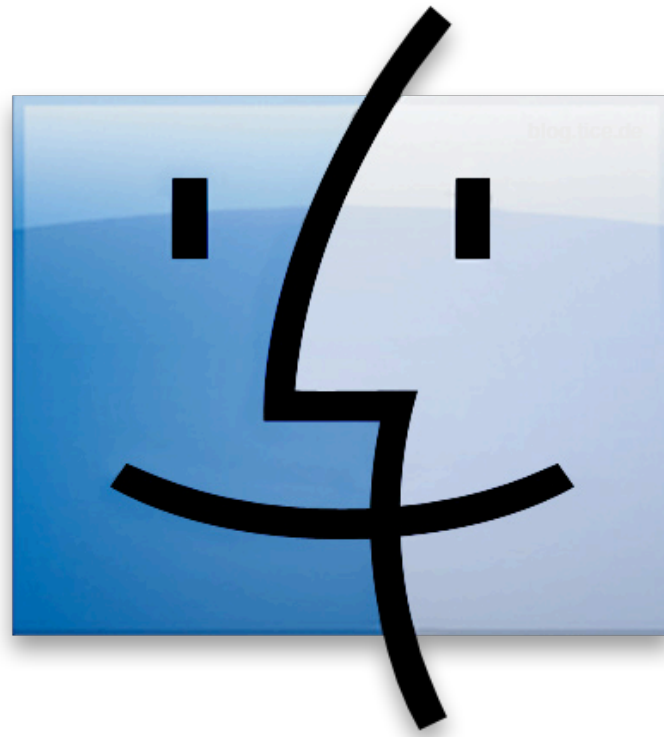


MACTECH BOOTCAMP



BEST PRACTICES: HARDWARE, SOFTWARE AND
NETWORK DEPLOYMENT

James Alcasid

SYSTEM IMAGING



SYSTEM IMAGING

- Methodology
- Build & Prep Image
- Deploy Image



METHODOLOGY

- Programmatic vs Monolithic
- Disk Utility vs Carbon Copy Cloner
- Single Universal Build or Custom
- Best Practice



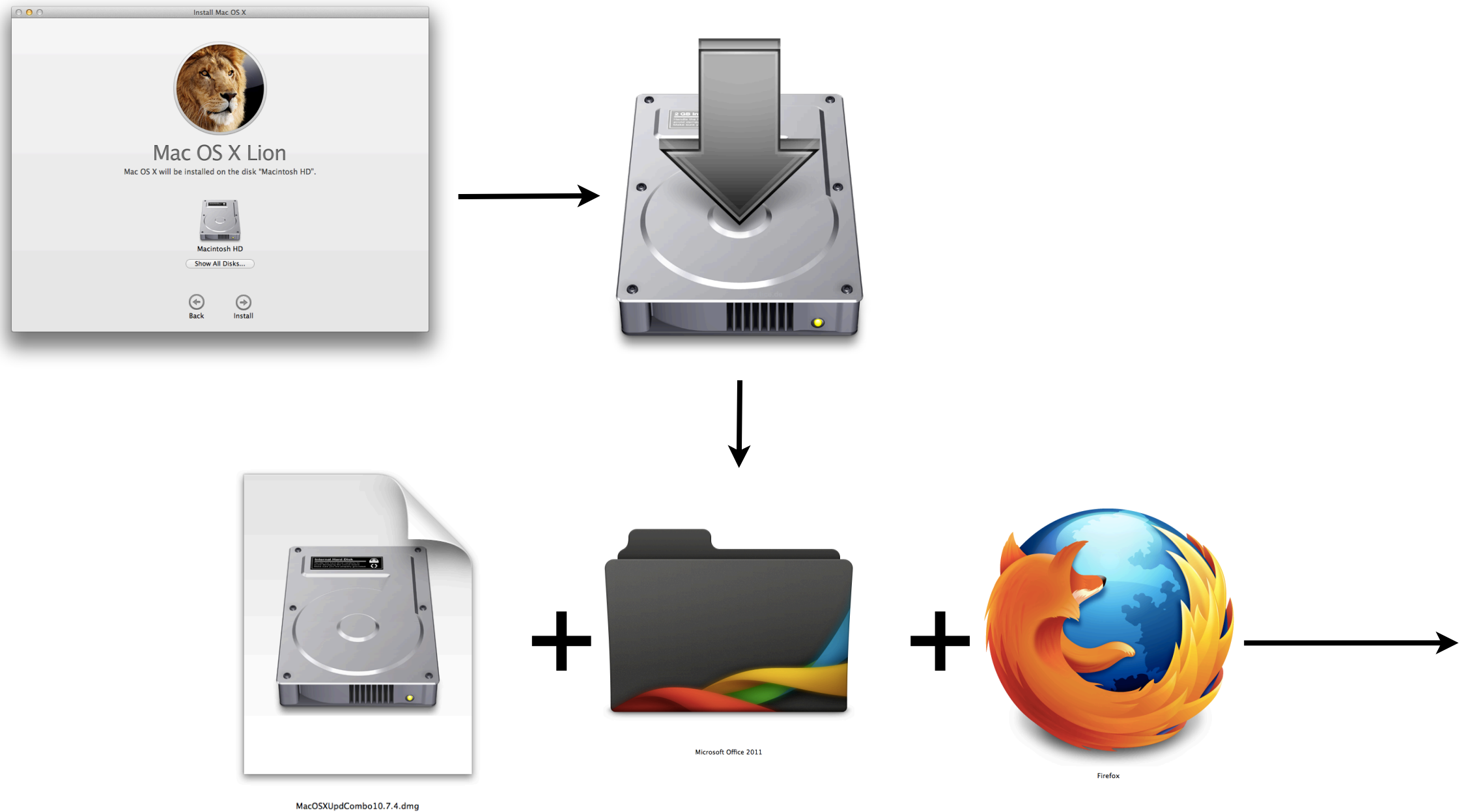
BUILD IMAGE



INSTALL OS X

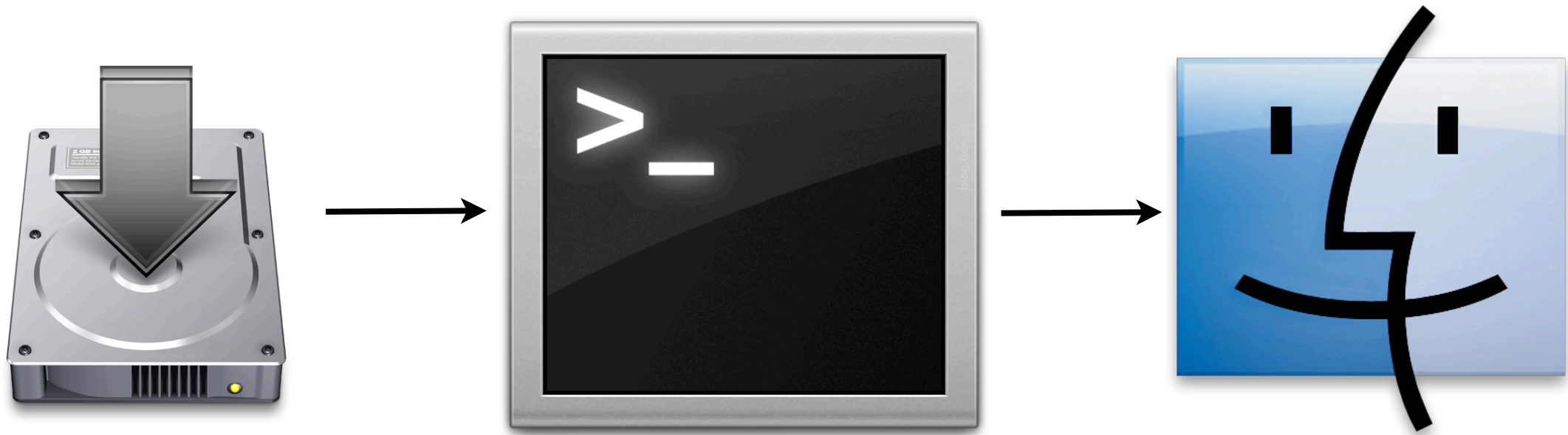


BUILD IMAGE



OS X UPDATES & OTHER SOFTWARE

BUILD IMAGE



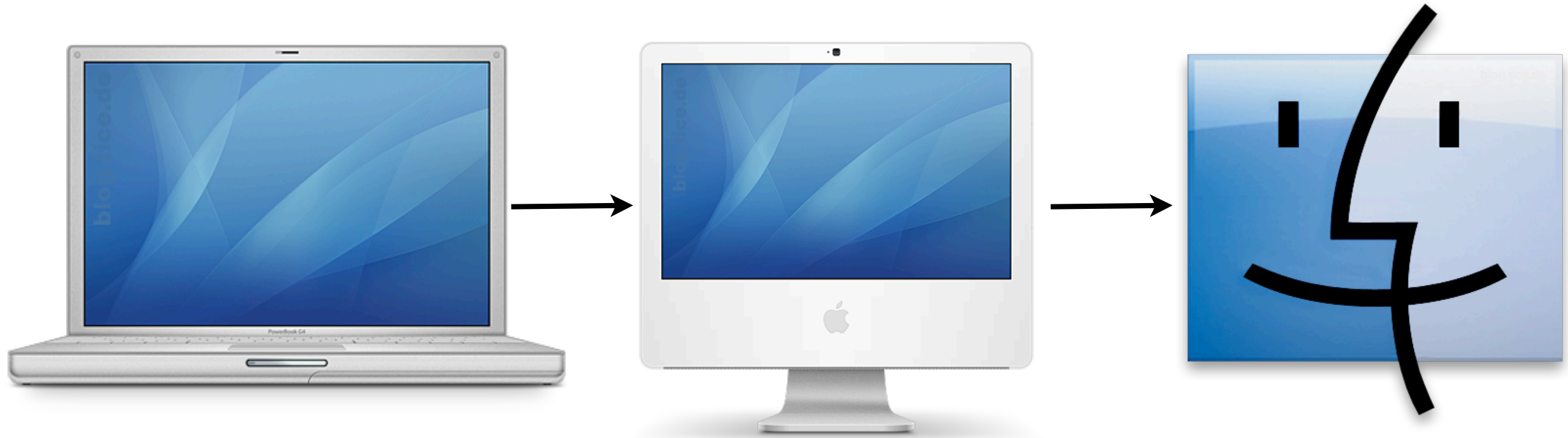
- Set Finder Preferences
- Install AppleJack
- <http://www.macupdate.com/app/mac/15667/applejack>
- Boot into Single Users Mode, 'command + S' keys
- Run Applejack Utility
- Boot System into Target Disk Mode, 'T' key during boot

BUILD IMAGE



- Connect Target Disk System to Imaging Mac via FireWire
- Launch Disk Utility and Select TDM drive partition
- Select 'Restore' Tab
- Drag and Drop the Source Image and Destination Drive
- Scan Image for Restore and Restore

DEPLOY IMAGE



- Connect Imaging Mac via to Target System via FireWire
- Launch Disk Utility and Select Target drive partition
- Select 'New Image'
- At the dropdown window select 'compressed' for Image Format
- Select 'none' for Encryption and Title Image and Save

SYSTEMS MANAGEMENT



SYSTEMS MANAGEMENT OPTIONS

- Apple Remote Desktop



- JAMF Casper Suite



- Absolute Manage **Absolute**Software
TRACK. MANAGE. SECURE.

APPLE REMOTE DESKTOP



- Competitively priced
- Unlimited-Client license via the App Store
- Default Mac OS X management client

APPLE REMOTE DESKTOP DEMO



MAC OS X SECURITY



THE MAC IS A TARGET

- Flashback
- Microsoft Office Malware
- Tsunami



ANTI-VIRUS



- Apple's posture on malware has changed
- Several free products
- There is no reason not to use AV
- Protect against more than just Mac malware

ENCRYPTION

- FileVault 2
- S/MIME Certificates for email
- Encrypted Zip Files
- Encrypted Disk Images



FILEVAULT 2

- Full-disk encryption
- Encrypt the backup
- Robust data protection but you still need a strong password
- Apply all Software Updates and do maintenance before enabling

S/MIME MAIL CERTIFICATES

- Secure/Multipurpose Mail Extension
- Digitally Sign and Encrypt Email
- Used primarily with an email client such as Apple Mail
- Low impact but effective layer of security
- Sender and receiver must both use S/MIME certificates for mail encryption

S/MIME MAIL CERTIFICATES & APPLE MAIL



[HTTP://WWW.COMODO.COM/HOME/EMAIL-SECURITY/FREE-EMAIL-CERTIFICATE.PHP](http://www.comodo.com/home/email-security/free-email-certificate.php)

The screenshot shows a web browser window with the address bar displaying <http://www.comodo.com/home/email-security/free-email-certificate.php>. The page features the Comodo logo and navigation links. A sidebar on the left lists various security products, with 'Free Email Certificate' highlighted. The main content area is titled 'Free Secure Email Certificate' and includes a 'Free Sign Up' button. A right sidebar promotes 'GeekBuddy' remote support and a 'Product Selection Wizard'.

COMODO
Creating Trust Online®

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Products | **Home & Home Office** | E-Commerce | Small to Medium Business | Large Enterprise | Partners | Social Media

Home & Home Office > Email Security > **Free Email Certificate**

> Internet Security Software
> PC Support & Maintenance
▼ **Email Security & Messaging**
 > **Free Email Certificate**
 Comodo Unite

> Browsers
> Backup & Online Storage
> Free Trials

Free Secure Email Certificate

Email Certificate (S/MIME) protects your emails with encrypting and digitally signing.

Want to keep your messages secure and private?

Protecting your digital communications is just this easy

- ✓ Encryption and digital signature ensure confidentiality
- ✓ Protection against identity theft
- ✓ Integrates with Microsoft® Office
- ✓ Completely FREE

Free Sign Up
and get free email certificate

Download and install within minutes! Get now

Why risk yourself in data theft with zero protection?

Email certificates provide the strongest levels of confidentiality and security for your electronic communications by allowing you to digitally sign and encrypt your mail and attachments. Encryption means that only your intended recipient will be able to read the mail while digitally signing allows them to confirm you as the sender and verify the message was not tampered with en route. Our email certificates are free for personal/home users and are available from as little as \$12 per year for business users.

The Secrets of our Secure Email Certificate

- Ensure email remains private by encrypting with up to 256 bit security
- Digitally sign your email to ensure authenticity and integrity
- Trusted with major mail clients such as Microsoft Outlook, Windows Mail, Thunderbird
- Simple online application and installation means you can be set up in minutes
- FREE for personal use!! Secure communications are a right - not an expensive luxury

Experience extreme protection with Comodo Internet Security Pro with GeekBuddy

GeekBuddy can remotely install any new software on your PC, as well as provide live remote support for virtually any computer problem you face!

- ✓ Clean Malware
- ✓ Firewall Protection
- ✓ Defence+ Host Intrusion Protection
- ✓ Auto Sandbox Technology™

> Try it FREE > More Info

Product Selection Wizard

Find the Comodo product that best fits your needs or budget.

> Try it Now

Verify and secure your site with COMODO. Get your **SSL Certificate** FAST, Order instantly and easily!. Our **SSL** is fully trusted by all known browsers.

COMODO
EV SSL SITE
AUTHENTIC & SECURE

Secure Email Certificates – Application

https://secure.comodo.com/products/frontpage?area=SecureEmailCertificate¤cy=USD®ion=North+Am COMODO CA Limited

COMODO

Creating Trust Online

Application for Secure Email Certificate

Your Details

First Name

James

Last Name

Alcasid

Email Address

james.alcasid@gmail.com

Country

United States

Private Key Options

Key Size (bits):

2048 (High Grade)

Revocation Password

If you believe the security of your certificate has been compromised, it may be revoked. A revocation password is required to ensure that only you may revoke your certificate:

Revocation Password

.....

Re-enter Revocation Password

.....

Comodo Newsletter

☐ Opt in?

Subscriber Agreement

Please read this Subscriber Agreement before applying for, accepting, or using a digital certificate. If you do not agree to the terms of this Subscriber Agreement, do not apply for, accept, or use the digital certificate.

Email Certificate Subscriber Agreement

THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE. PLEASE READ THE AGREEMENT CAREFULLY BEFORE ACCEPTING THE TERMS AND CONDITIONS.

IMPORTANT - PLEASE READ THESE TERMS AND CONDITIONS CAREFULLY BEFORE APPLYING FOR, ACCEPTING, OR USING A COMODO EMAIL CERTIFICATE. BY USING, APPLYING FOR, OR ACCEPTING A COMODO EMAIL CERTIFICATE OR BY ACCEPTING THIS AGREEMENT BY CLICKING ON "I ACCEPT" BELOW, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS LICENSE AGREEMENT, THAT YOU UNDERSTAND IT, THAT YOU ACCEPT THE TERMS AS PESENTED, AND AGREE TO BE BOUND BY ITS TERMS. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS SUBSCRIBER AGREEMENT, DO NOT APPLY FOR, ACCEPT, OR USE A COMODO EMAIL CERTIFICATE AND CLICK

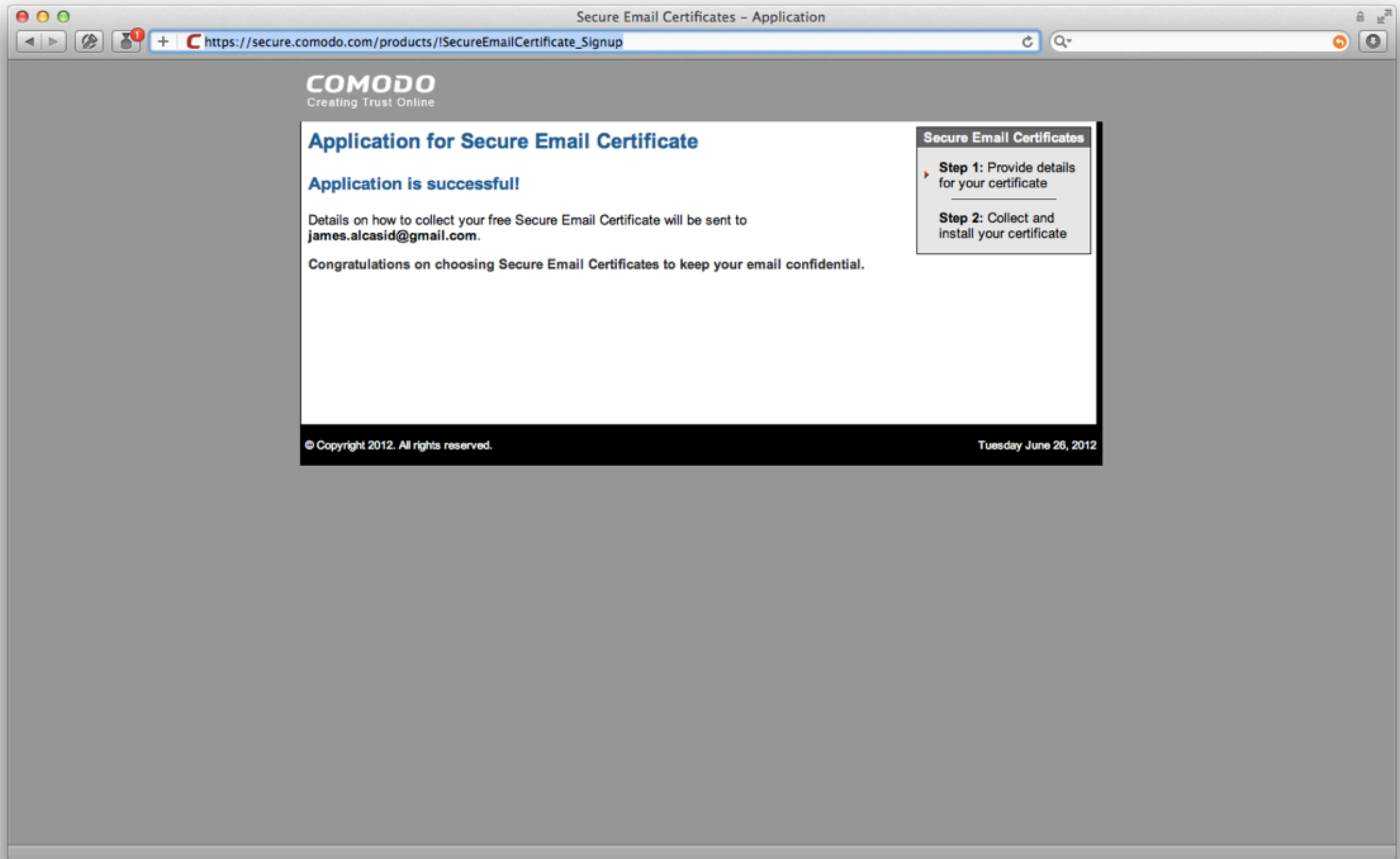
Secure Email Certificates

Step 1: Provide details for your certificate


Step 2: Collect and install your certificate

Wednesday, June 27, 12

22



Your certificate is ready for collection! — Inbox

From: Certificate Customer Services <secureemail@comodogroup.com> 

Subject: Your certificate is ready for collection!

Date: June 26, 2012 2:04:23 PM EDT

To: James Alcasid

14 Attachments, 51 KB


Save ▾

Quick Look

COMODO

Tel Sales : +1 888 266 6361
Fax Sales : +1.201.963.9003

Your Comodo FREE
Personal Email Certificate
is now ready for collection!



Dear James Alcasid,

Congratulations - your Comodo FREE Personal Secure Email Certificate is now ready for collection! You are almost able to send secure email!

Simply click on the button below to collect your certificate.

Click & Install Comodo Email Certificate

Note:- If the above button does not work, please navigate to https://secure.comodo.net/products/SecureEmailCertificate_Collect2 Enter your email address and the Collection Password which is

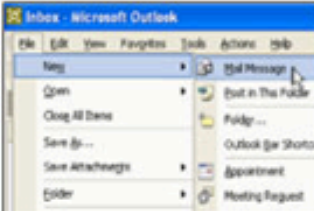
Your Comodo FREE Personal Secure Email Certificate will then be automatically placed into the Certificate store on your computer.

Click "Yes" if you see a "Potential Scripting Violation" window asking "Do you want this Program to add Certificates now?"

How to encrypt mail

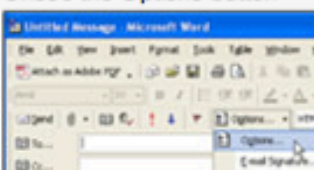
Step 1

Create a new Mail



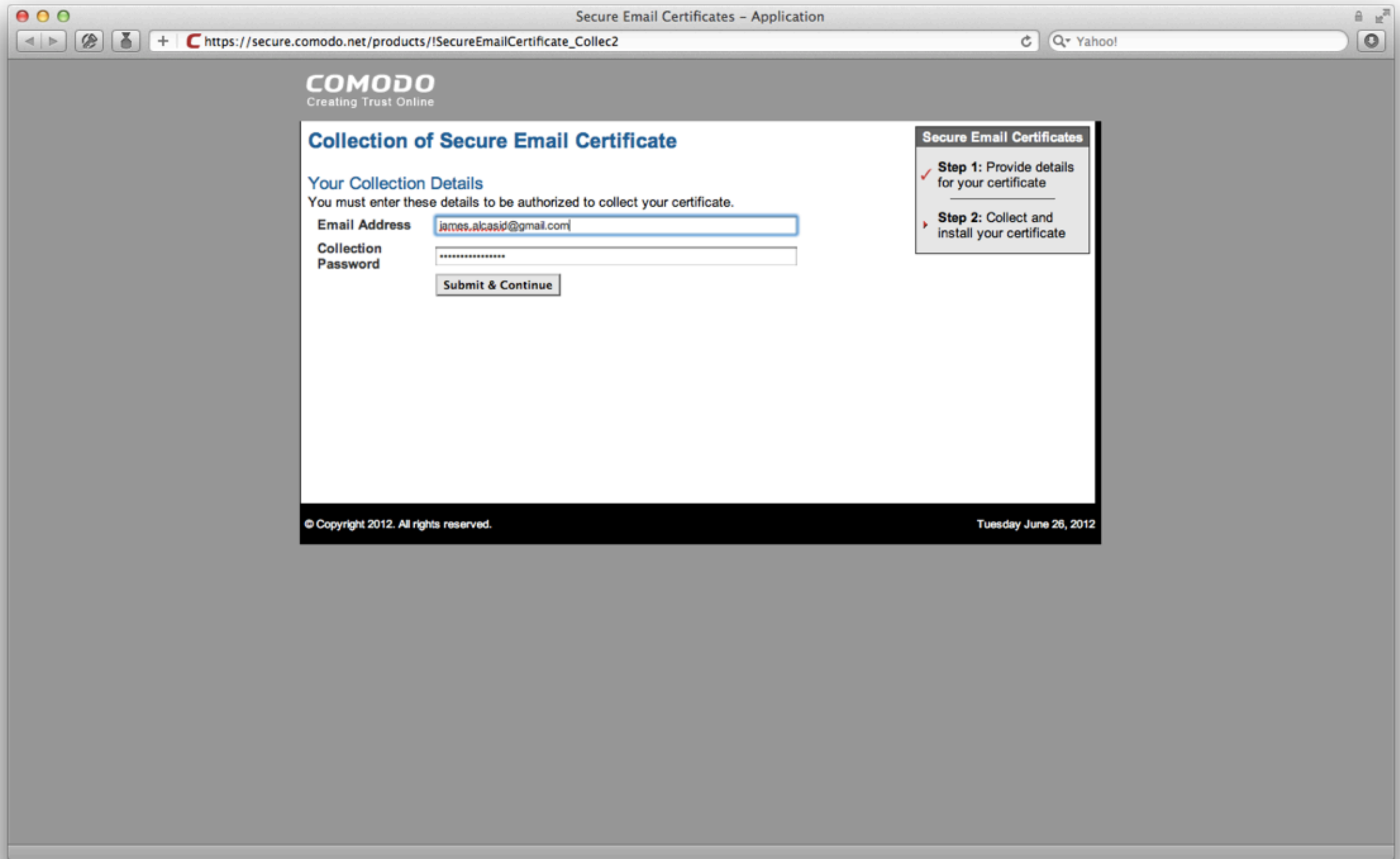
Step 2

Chose the Options button



Wednesday, June 27, 12

24



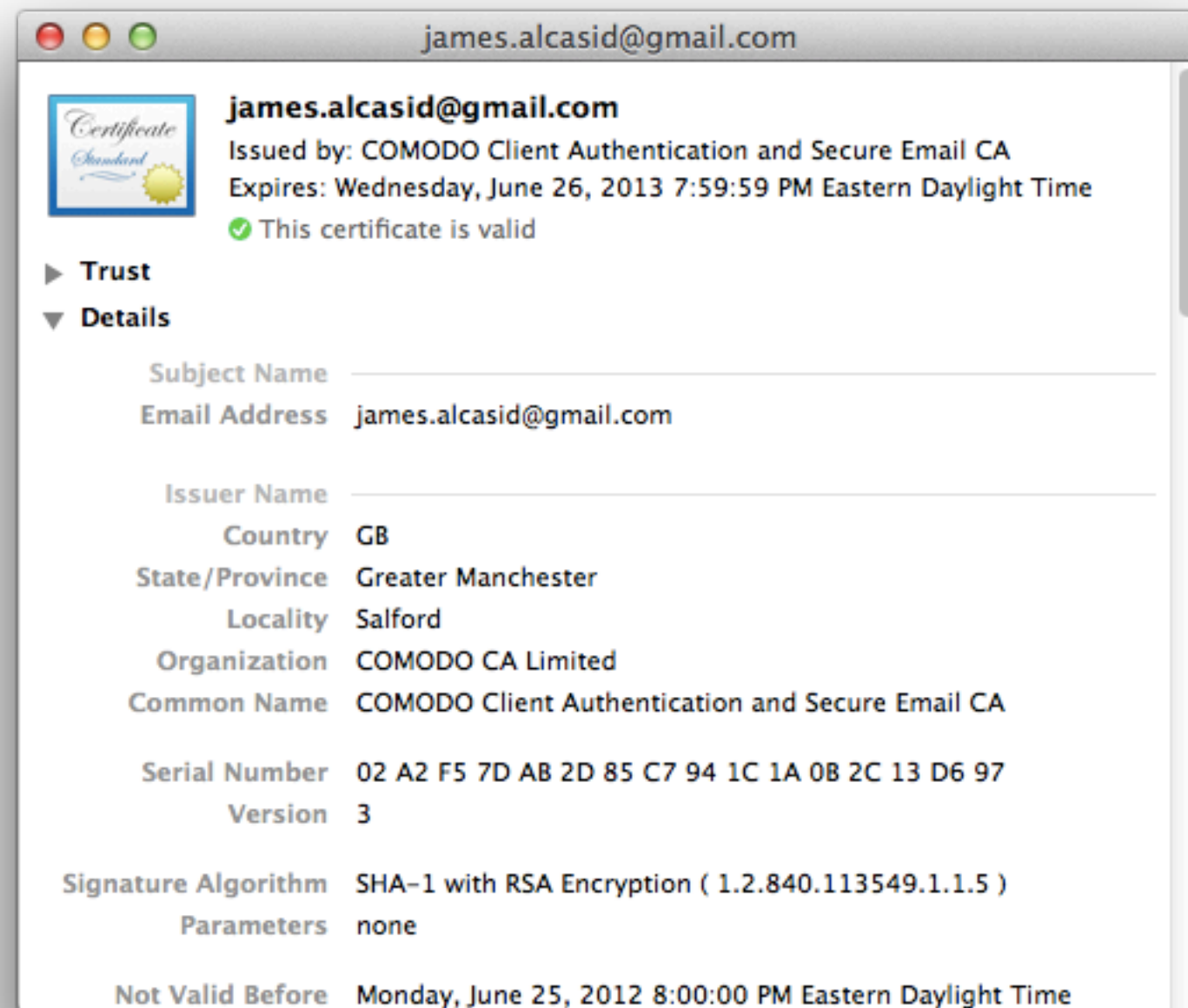


The downloaded file
containing the certificates.
Double-click to install.

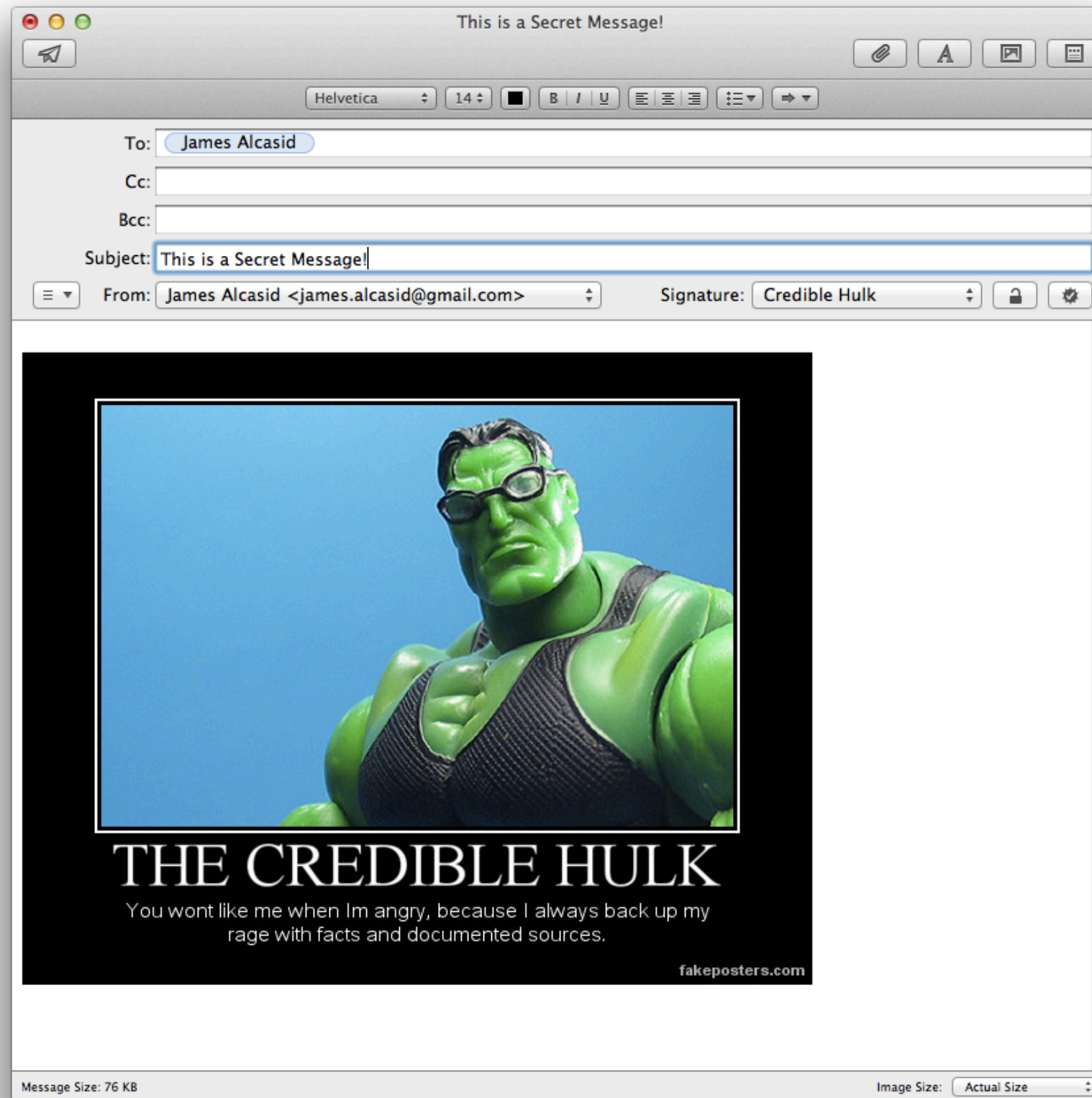


Click 'Add' to
add certificates
to Keychain.

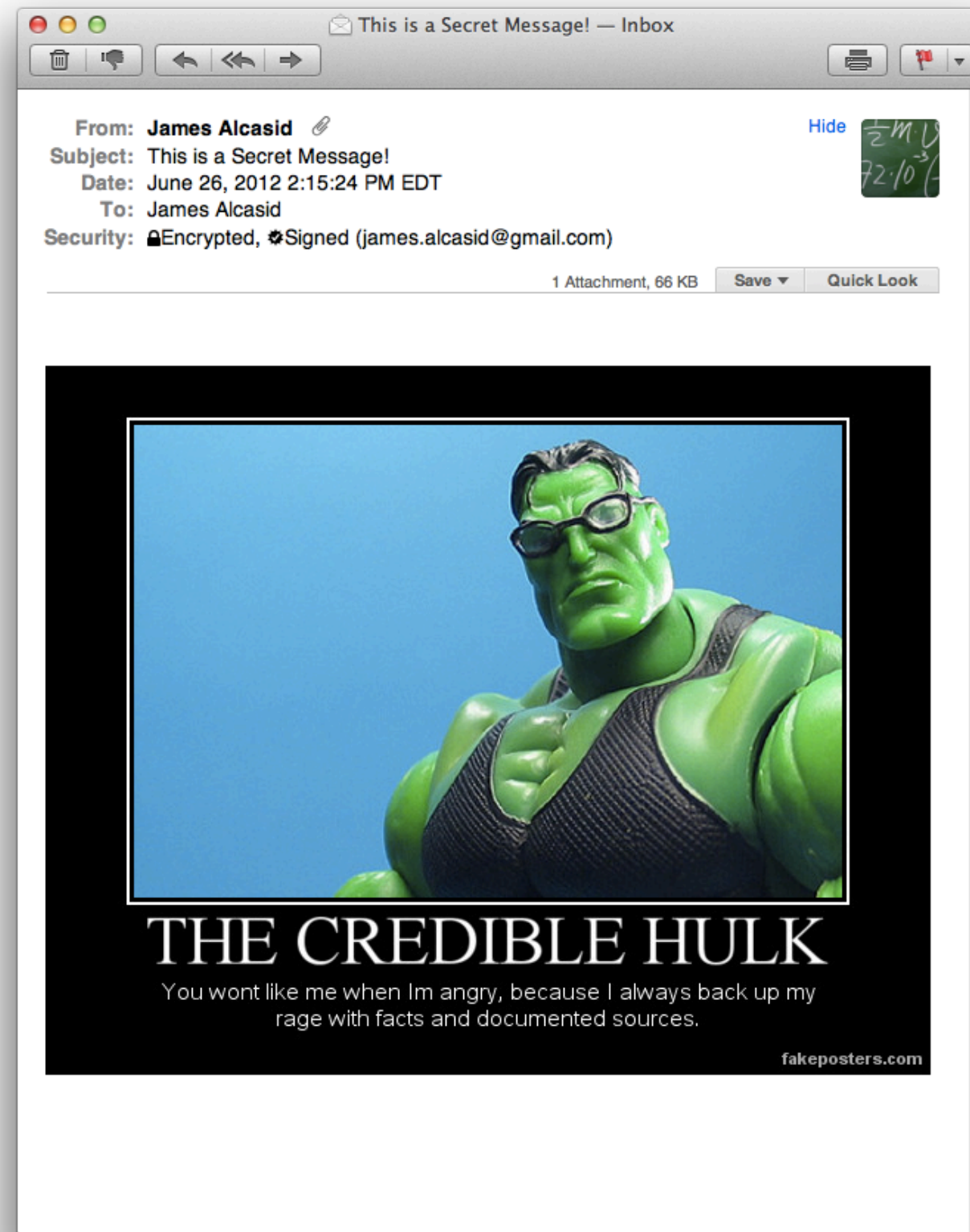
CHECK OUT YOUR CERTIFICATE



THE TEST



THE RESULT

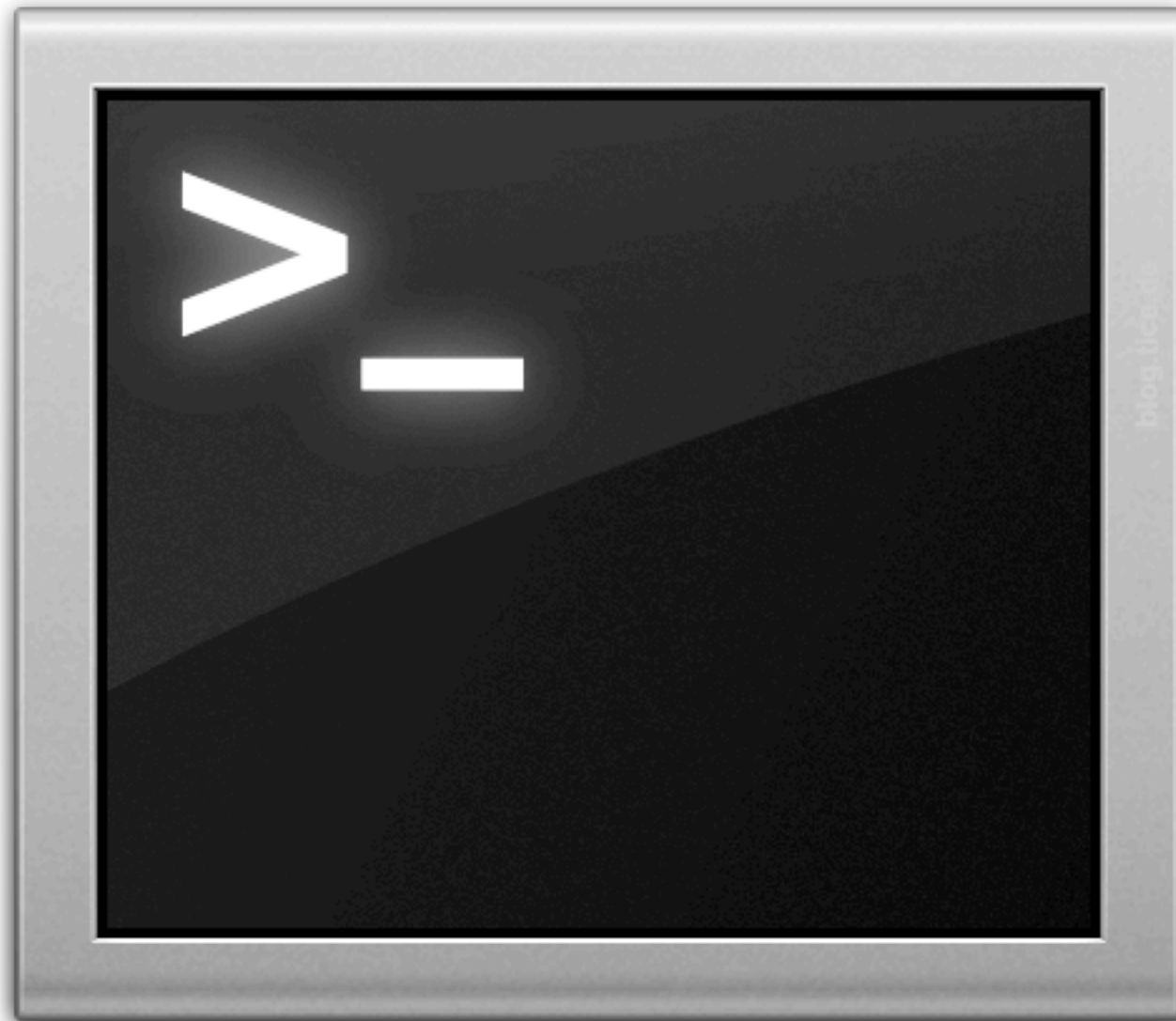


PASSWORD PROTECT ZIP FILES



- Mac OS X and Windows compatibility
- Executed from Terminal
- `$ zip -e encrypted_filename encrypted file`

PASSWORD PROTECT ZIP FILE DEMO



ENCRYPTED DISK IMAGES



- Mac OS X only
- Executed from Disk Utility and Terminal
- Useful as a secure logical container for sensitive data

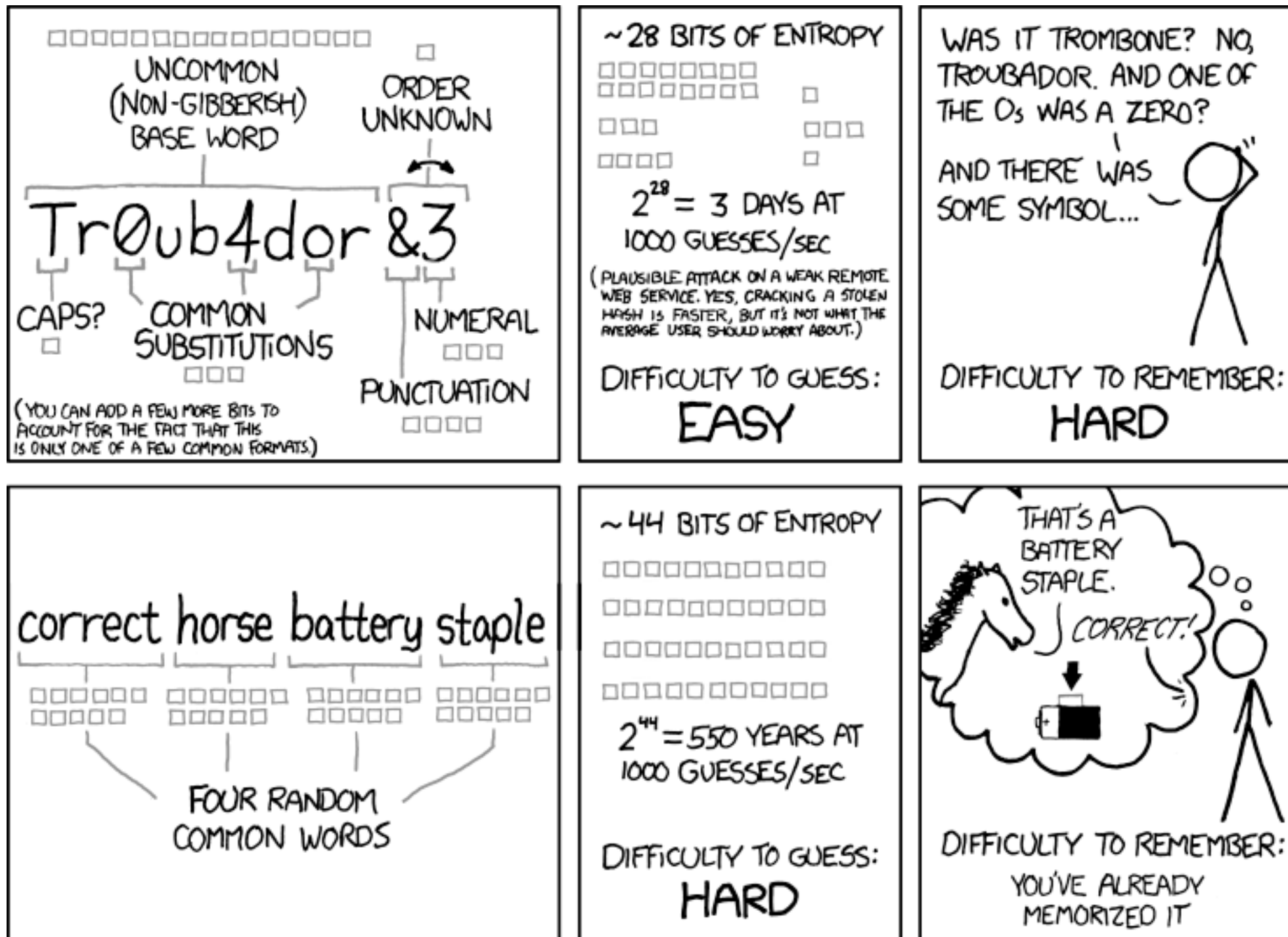
ENCRYPTED DISK IMAGE DEMO



PASSWORDS



- 1Password
- Complex password implementations reduce Security
- Backup your Keychain



THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

THANKYOU!

james.alcasid@gmail.com
@jamesalcasid